WAGO Power Supplies

Edition 2021/2022

WAGO Full Line Catalogs

Volume 1, WAGO Rail-Mount Terminal Blocks and Connectors

- Rail-Mount Terminal Blocks
- Rail-Mount Terminal Blocks with Pluggable Connector (X-COM®-SYSTEM)
- Patchboard Systems
- Terminal Strips
- PUSH WIRE® Connectors for Junction Boxes
- Lighting Connectors
- Shield Connecting System

Volume 2, WAGO PCB Terminal Blocks and Connectors

- PCB Terminal Blocks
- THR/SMD PCB Terminal Blocks
- *MULTI CONNECTION SYSTEM (MCS)*
- Pluggable PCB Terminal Blocks
- Feedthrough Terminal Blocks
- Specialty Connectors
- Empty Housings

Volume 3, Automation Technology

- Solutions & Software
- Operating & Monitoring
- Controllers, Edge Devices
- Modular I/O-SYSTEM IP20, I/O-SYSTEM IP67
- Industrial Switches
- Radio Technology
- IP67 Sensor/Actuator Boxes, IP67 Cables and Connectors

Volume 4, WAGO Interface Electronic

- Relay and Optocoupler Modules
- Signal Conditioners and Isolation Amplifiers
- Current and Energy Measurement Technology
- Power Supplies
- Interface Modules and System Wiring
- Overvoltage Protection
- Empty Housings

Volume 5, WAGO Pluggable Connection System *WINSTA®*

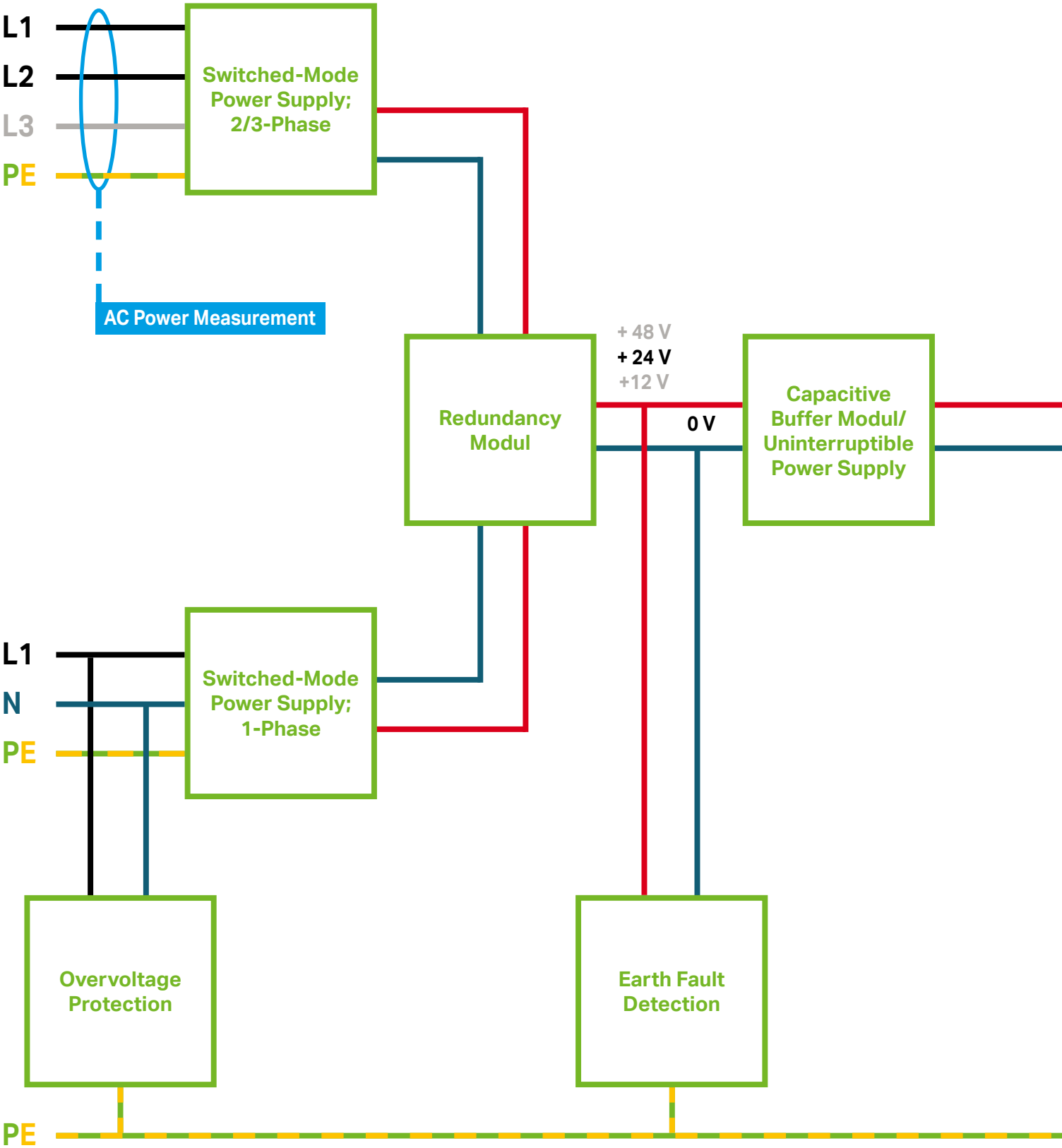
- Pluggable Connectors
- Snap-In Device Connectors
- Pluggable PCB Connectors
- Distribution Connectors
- Cable Assemblies
- Flat Cable Systems
- Distribution Boxes

Volume 6, WAGO Marking

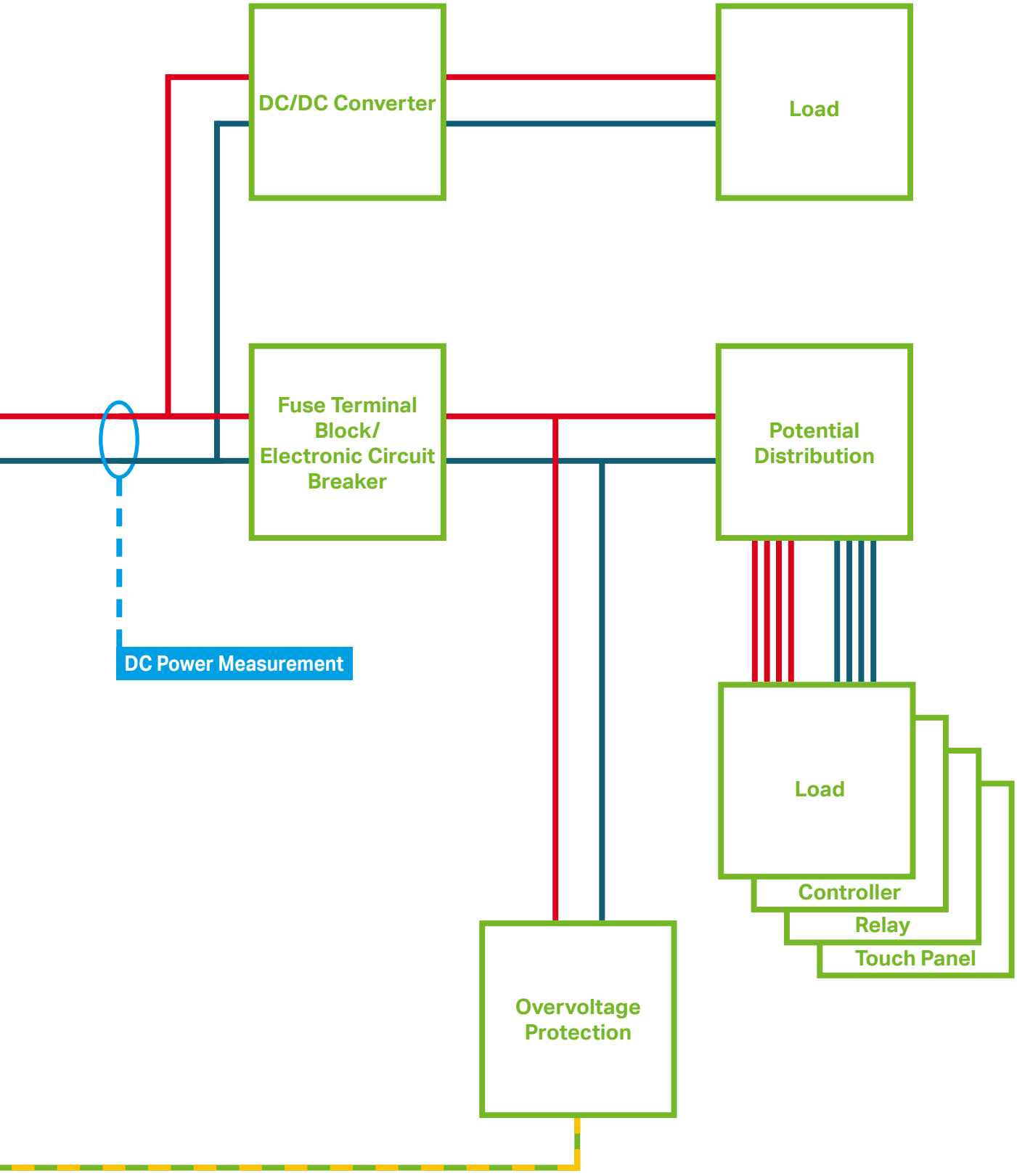
- Printer
- Software
- Terminal Block Marking
- Cable and Conductor Marking
- Device Marking
- Marker Carriers

WAGO Power Supplies

WAGO Power Supplies
System Overview



WAGO Power Supplies
System Overview



WAGO Power Supplies

WAGO Power Supplies Pro 2

New Generation of Professional Power Supplies for Applications Requiring High Performance, Efficiency and Reliability

WAGO's Pro 2 Power Supplies offer tremendous added value thanks to flexible configuration and comprehensive monitoring via optional communication interface (WAGO USB Communication Cable and IO-Link Communication Module).

Advantages:

- TopBoost function: Up to 600% output current for 15 ms
- PowerBoost function: 150% output power for 5 s
- High efficiency thanks to a CCFL inverter topology
- Single- and three-phase power supplies with output voltages of 24 VDC and nominal output currents from 5 to 40 A
- Communication interface for configuring threshold values, overload and DI/DO behavior, as well as monitoring output variables, warning and error messages
- Permanent communication via IO-Link through an optional pluggable communication module

WAGO Power Supplies Pro

Applications with high output requirements call for professional power supplies capable of reliably handling power peaks. WAGO's Pro Power Supplies are ideally suited for such applications.

- TopBoost function: Multiplies the nominal current for up to 50 ms
- PowerBoost function: Provides 200% of output power for four seconds
- Single- and three-phase power supplies with output voltages of 12/24/48 VDC and nominal output currents from 5 to 40 A for nearly every application
- LineMonitor (option): Easy parameter setting and input/output monitoring
- Potential-free contact/stand-by input: Switch off output with no wear and minimize power consumption
- Serial RS-232 interface (option): Communicate with PC or PLC

WAGO Power Supplies Classic

Classic is the robust power supply with optional TopBoost integration. A wide input range and extensive list of international approvals open up WAGO's Classic Power Supplies to a wide variety of applications.

- TopBoost: cost-effective, secondary-side fusing via standard circuit breakers
  (≥ 120 W)
- Nominal output voltage: 12, 24, 30.5 and 48 VDC
- DC OK signal/contact for easy remote monitoring
- Wide input voltage range and UL/GL approvals for worldwide applications
- CAGE CLAMP® Connection Technology: maintenance-free and time-saving
- Slim, compact design saves valuable cabinet space

WAGO Power Supplies

WAGO Power Supplies Eco

Many applications only require 24 VDC. Here, WAGO's ECO Power Supplies are the economical solution.

- Output current: 1.25 … 40 A
- Wide input voltage range for use internationally: 90 … 264 VAC
- Economically supports basic applications
- CAGE CLAMP® Connection Technology: maintenance-free and time-saving
- LED status indication: output voltage availability (green), overcurrent/short circuit (red)
- Flexible mounting on DIN-rail and variable installation via screw-mount clips – perfect for every application
- Flat, rugged metal housing: compact and stable design

WAGO Power Supplies Eco 2

The Eco line of power supplies now includes WAGO Eco 2 Power Supplies with push-in technology and integrated WAGO levers. The new devices' compelling features include fast, reliable and tool-free lever connections, as well as an excellent price/performance ratio. At 25 mm and 38 mm wide, the power supplies are slim and compact. The devices are also extremely durable and reliable with their high efficiency of ≥ 88% (2687-2142) and lower thermal generation.

- Power supplies with a wide input voltage range of 90 … 264 VAC (100 … 373 VDC)Output voltage: 24 VDC, adjustable; Output power: 30 W (2687-2142) and 120 W (2687-2144)
- Integrated, tool-free lever-actuated push-in connection technology
- Slim design, high efficiency, good price/performance ratio
- Reliability, long service life (high MTBF)
- Quick, easy, maintenance- and tool-free connection technology

WAGO Power Supplies Compact

WAGO's compact, high-performance Compact Power Supplies in DIN-rail-mount housings are available with output voltages of 5, 12, 18 and 24 VDC, as well as nominal output currents up to 6.5 A.

- Wide input voltage range for use internationally: 85 … 264 VAC
- Flexible mounting on DIN-rail and variable installation via screw-mount clips
- Push-in CAGE CLAMP® Connection Technology (option): maintenance-free and time-saving
- Improved cooling due to a removable front plate: ideal for alternative mounting positions
- Dimensions per DIN 43880: suitable for installation in distribution and meter boards

WAGO Power Supplies

Uninterruptible Power Supply (UPS)

Consisting of a 24 V UPS charger and controller with one or more connected batteries, WAGO's Uninterruptible Power Supply reliably powers an application for several hours. Trouble-free machine or system operation is guaranteed – even in the event of brief power supply failures.

- Slim charging and control units save control cabinet space
- Integrated display and RS-232 interface (option) simplify visualization and configuration
- Pluggable CAGE CLAMP® Connection Technology: maintenance-free and time-saving
- Battery control technology for predictive maintenance that extends battery life

Capacitive Buffer Modules

In addition to reliably ensuring trouble-free machine and system operation – even through brief power failures – WAGO's Capacitive Buffer Modules offer power reserves that may be required when starting heavy motors or triggering a fuse.
Decoupled output: integrated diodes for decoupling buffered loads from unbuffered loads

- Maintenance-free and time-saving connections via pluggable connectors equipped with CAGE CLAMP® Connection Technology
- Unlimited parallel connections possible
- Adjustable switching threshold
- Maintenance-free, high-energy gold caps

Redundancy Modules

WAGO's redundancy modules are ideal for reliably increasing power supply availability. These modules decouple two parallel-connected power supplies and are ideal for applications where an electrical load must be reliably supplied – even in the event of a power supply failure.

- Integrated power diodes with overload capability: suitable for TopBoost or PowerBoost
- Potential-free contact (option) for input voltage monitoring
- Reliable connection via pluggable connectors equipped with CAGE CLAMP® or terminal strips with integrated operating levers: maintenance-free and time-saving
- Solutions for 12, 24 and 48 VDC supply, up to 76 A supply: suitable for nearly every application

WAGO Power Supplies

Electronic Circuit Breakers (ECBs)

WAGO's ECBs are the space-saving and precision solution for fusing DC voltage circuits.

- 1-, 2-, 4- and 8-channel ECBs with fixed or adjustable currents ranging from 0.5 to 12 A
- High switch-on capacity: >50,000 µF
- Communication capability: remote monitoring and reset
- Pluggable CAGE CLAMP® Connection Technology (option): maintenance-free and time-saving
- Comprehensive range of approvals: many applications

DC/DC Converters

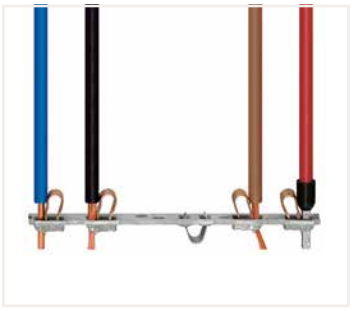
Instead of using an additional power supply, WAGO's DC/DC Converters are ideal for specialty voltages, allowing sensors and actuators to be reliably supplied.
DC/DC converters can be used instead of an additional power supply for applications with specialty voltages.

- Slim design: "True" 6.0 mm (0.23 inch) width maximizes panel space
- Wide operating temperature range
- Ready for worldwide use in many industries, thanks to UL listing
- Common profile with 857 and 2857 Series Signal Conditioners and Relays: Enables full commoning of the supply voltage

Operating WAGO Connection Technologies

Please follow the applicable product-specific termination instructions.

PUSH-IN CAGE CLAMP®



The universal connection with an additional advantage: Push-in connection
Terminate solid and stranded (Class B 7 strands or less), as well as ferruled conductors, by simply pushing them in – no tools required.

Termination for all conductor types:
- Open clamping unit.
- Insert the conductor.
- Release clamp – done!

Push-in CAGE CLAMP® terminates the following copper conductors:
solid

stranded

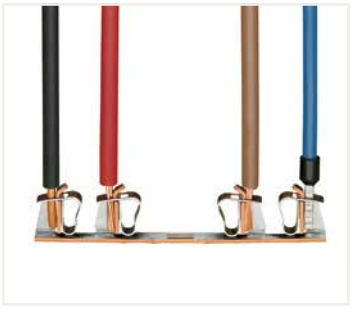
fine-stranded, also with tinned single strands

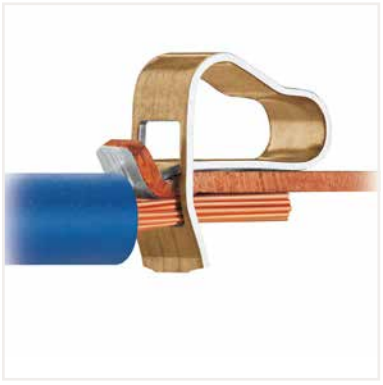
fine-stranded, tip-bonded

fine-stranded, with ferrule (gastight crimped)

fine-stranded, with pin terminal (gastight crimped)

CAGE CLAMP®





The universal connection for solid, stranded and fine-stranded conductors

Termination:
- Open clamping unit.
- Insert the conductor.
- Release clamp – done!

CAGE CLAMP® terminates the following copper conductors:
solid

stranded

fine-stranded, also with tinned single strands

fine-stranded, tip-bonded

fine-stranded, with ferrule (gastight crimped)

fine-stranded, with pin terminal (gastight crimped)

Operating WAGO Connection Technologies

Please follow the applicable product-specific termination instructions.

POWER CAGE CLAMP®

POWER CAGE CLAMP terminates the following copper conductors: solid

stranded

fine-stranded, also with tinned single strands

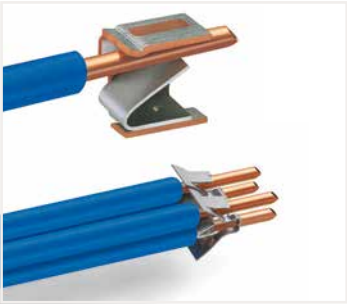
fine-stranded, with ferrule (gastight crimped)

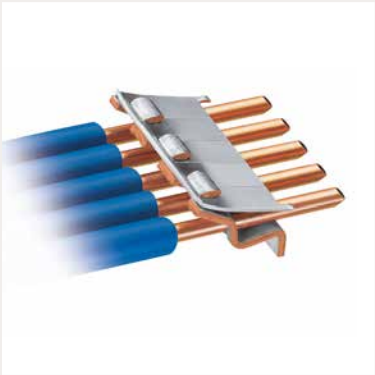
The universal connection for conductors larger than 35 mm² (2 AWG)

Termination:

- Open clamp by turning a T-wrench counter-clockwise.
- Press the integrated latch to open clamping unit for hands-free wiring.
- Insert the conductor.
- A small counter-clockwise rotation closes the clamp, securing conductor.

PUSH WIRE®





PUSH WIRE® terminates the following copper conductors: solid

PUSH WIRE® connection for solid and stranded conductors (depending on the model used)

Termination:
Tool-free, twist-free terminations for solid and rigid stranded conductors – simply push into the unit.

WAGO Power Supplies; 1-Phase

WAGO Power Supplies; 1-Phase

1

WAGO Power Supplies; 1-Phase
Selection Guide

Nominal voltage (output)	Nominal current (output) [ADC]	Input, 1-phase	Input, 2-phase	Approvals							DC OK signal/ contact	RS-232 interface	TopBoost [1]	PowerBoost	Efficiency typ. [%]	Surrounding air temperature [°C] [4]	Item Number	Page
				EN 60335	cURus 60950	cULus 508	cULus 61010	DNVGL	ANSI/ISA 12.12.1	ATEX/IEC Ex								
5 VDC	5.5	■			■	■		□							75.0	–25 … +60	787-1020	70
12 VDC	2.0	■		■	■	■		■			■				82.0	–25 … +70	787-1601 [2]	31
	2.0	■		■											80.0	–25 … +60	787-1701	47
	2.0	■			■	■		■							80.0	–25 … +60	787-1001	71
	2.5	■		■		■					■				88.0	–25 … +70	787-1201	61
	4.0	■		■	■	■		■			■				86.0	–25 … +70	787-1611 [2]	32
	4.0	■		■											81.0	–25 … +60	787-1711	48
	4.0	■			■	■		■							85.0	–25 … +60	787-1011	72
	5.0	■		■	■	■									89.5	–25 … +70	787-1211	62
	6.0	■			■	■		■							87.0	–25 … +60	787-1021	73
	7.0	■		■	■	■		■			■				86.0	–25 … +70	787-1621	33
	8.0	■		■											84.0	–25 … +60	787-1721	49
	8.0	■		■		■					■				91.5	–25 … +70	787-1221	63
	10.0						■				■		■	■	93.8	–25 … +70	2787-2134	14
	15.0						■				■		■	■	95.3	–25 … +70	2787-2135	15
	15.0	■			■	■		■			■		■		90.0	–25 … +70	787-1631	34
18 VDC	2.4	■			■	■		□							83.0	–25 … +60	787-1017	74
22 VDC	1.0	■			■										84.0	–25 … +60	787-914	85
24 VDC	0.5	■		■		■									83.0	–25 … +70	787-1200	64
	1.0	■		■	■	■		■			■				86.0	–25 … +70	787-1602 [2]	35
	1.25	■		■	■	■									80.0	–20 … +60	787-1702	50
	1.25	■					■								88.0	–25 … +70	2687-2142	59
	1.25	■				■		■							88.0	–20 … +70	787-2850	69
	1.3	■			■	■		■							82.0	–25 … +60	787-1002	75
	1.3	■			■	■		■							82.0	–25 … +60	787-1102	76
	1.3	■		■	■	■									87.0	–25 … +70	787-1202	65
	2.0	■		■	■	■		■			■				89.0	–25 … +70	787-1606 [2]	36
	2.5	■			■	■			■	■					86.0	–10 … +70	787-712	52
	2.5	■		■	■	■									81.0	–20 … +60	787-1712	51
	2.5	■			■	■		■							88.0	–25 … +60	787-1012	77
	2.5	■			■	■		■							88.0	–25 … +60	787-1112	78
	2.5	■		■	■	■									89.0	–25 … +70	787-1212	66
	3.0	■			■	■					■		■	■	87.8	–25 … +70	787-818	25
	3.8	■		■	■	■		■			■				87.0	–25 … +70	787-1616/000-1000 [2]	37
	4.0	■		■	■	■		■			■				89.0	–25 … +70	787-1616	38
	4.0	■			■	■		■							88.0	–25 … +60	787-1022	79
	4.0	■			■	■		■							88.0	–25 … +60	787-1122	80
	4.0	■				■									92.3	–40 … +85	787-6716	81
	4.2	■		■	■	■									90.0	–25 … +70	787-1216	67
	5.0	■					■				■		■	■	91.5	–25 … +70	2787-2144	16
	5.0	■			■	■					■		■	■	87.8	–25 … +70	787-822	26
	5.0	■		■	■	■		■			■		■		89.0	–25 … +70	787-1622	39
	5.0	■	■		■	■		■			■		■		89.0	–25 … +70	787-1628	45
	5.0	■			■	■			■	■					86.0	–10 … +60	787-722	53
	5.0	■		■	■	■									84.0	–20 … +60	787-1722	54
	5.0	■					■								90.0	–25 … +70	2687-2144	60
	6.0	■		■	■	■									90.0	–25 … +70	787-1226	68
	10.0	■					■				■		■	■	92.8	–25 … +70	2787-2146	17
	10.0	■			■	■					■		■	■	90.0	–25 … +70	787-832	27
	10.0	■			■	■		■			■		■		91.0	–25 … +70	787-1632 [5]	40
	10.0	■	■		■	■		■			■		■		90.0	–25 … +70	787-1638	46
	10.0	■			■	■			■	■					86.0	–10 … +70	787-732	56
	10.0	■		■	■	■									84.0	–20 … +60	787-1732	55
	20.0	■					■				■		■	■	94.0	–25 … +70	2787-2147	18
	20.0	■			■	■					■		■	■	91.0	–25 … +70	787-834	28
	20.0	■			■	■		■			■		■		92.0	–25 … +70	787-1634	41
	20.0	■			■	■					■				90.0	–25 … +70	787-734	57
	40.0	■					■				■		■	■	95.0	–25 … +70	2787-2448	19
	40.0	■			■	■					■				90.0	–25 … +70	787-736	58

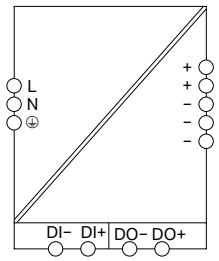
Nominal voltage (output)	Nominal current (output) [ADC]	Input, 1-phase	Input, 2-phase	Approvals							DC OK signal/ contact	RS-232 interface	TopBoost [1]	PowerBoost	Efficiency typ. [%]	Surrounding air temperature [°C] [4]	Item Number	Page
				EN 60335	cURus 60950	cULus 508	cULus 61010	DNVGL	ANSI/ISA 12.12.1	ATEX/IEC Ex								
48 VDC	2.0	■		■	■	■		■			■				86.0	−25 … +70	**787-1623**	42
	5.0	■					■				■		■	■		−25 … +70	**2787-2154**	20
	5.0	■			■	■					■		■	■	91.0	−25 … +70	**787-833**	29
	5.0	■			■	■		■			■		■		92.0	−25 … +70	**787-1633**	43
	10.0	■					■				■		■	■	95.3	−25 … +70	**2787-2157**	21
	10.0	■			■	■					■		■	■	91.0	−25 … +70	**787-835**	30
	10.0	■			■	■		■			■		■		93.0	−25 … +70	**787-1635** [5]	44

■ Yes ☐ Pending

[1] TopBoost enables magnetic tripping of circuit breakers in the output circuit.
[2] NEC Class 2 Power Unit per cURus 1310 or cURus 60950
[3] With uninterruptible power supply (UPS)
[4] Device starts at −40°C, type-tested for 787-8xx, -10xx, -16xx, 2787-2xxx
[5] .../000-070 is optionally available with protective coating

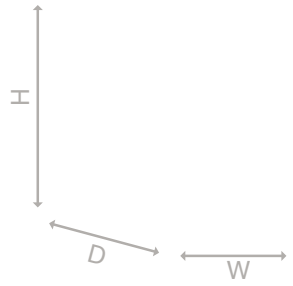
Power Supply; Pro 2; 1-Phase; 12 VDC / 10 A
2787 Series

1



Power supply; Pro 2; 1-phase; 12 VDC output voltage; 10 A output current; TopBoost + PowerBoost; communication capability

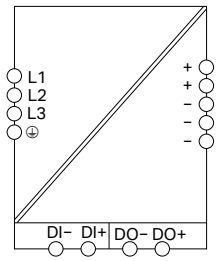
	Item No.	Pack. Unit
	2787-2134	1



Features:
- Power supply with TopBoost, PowerBoost and configurable overload behavior
- Configurable digital signal input and output, optical status indication, function keys
- Communication interface for configuration and monitoring
- Optional connection to IO-Link
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Pluggable connection technology
- Electrically isolated output voltage (SELV/PELV) per EN 61010/UL 61010
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

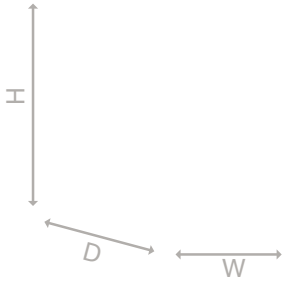
Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	90 … 264 VAC; 130 … 373 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	1.3 … 0.6 A (nominal load)
Inrush current	≤ 9.6 A (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 40 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	12 VDC (SELV) / ≤ 1 %
Output voltage range	12 … 14 VDC (adjustable)
Nominal output current $I_{o\,nom}$	10 A (12 VDC)
Nominal output power	120 W
Residual ripple	≤ 70 mV (peak-to-peak)
Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)
Signaling and Communication	
Signaling	Optical status indication (DC OK; load; warning and error states); Digital signal input and output (DI/DO)
Communication	Communication interface, can be used with WAGO USB Communication Cable (750-923) or IO-Link Communication Module (2789-9080) or Modbus RTU Communication Module (2789-9015)
Efficiency/Power Losses	
Power loss P_l	≤ 0.8 W (standby); ≤ 1.6 W (no load); ≤ 10 W (nominal load / 230 VAC)
Efficiency (typ.)	93.8%
Fuse Protection	
Internal fuse	T 6.3 A / 250 VAC
Recommended backup fusing	16 A (for USA/Canada: 15 A)
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-GND/sec-GND/ sec.-Signal)	3.51 kVAC / 2.2 kVAC / 0.5 kVDC / 0.5 kVDC
Protection class/type	I / IP20 (per EN 60529)
Overvoltage category	III (≤ 2000 m a. s.l.); II (> 2000 m a. s.l.)
Short-circuit-protected	Yes
Parallel/series operation	Yes/Yes
MTBF	> 1.200.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	See instruction leaflet
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/Output/Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical Data/Mechanical Data/Material Data	
Width x Height x Depth (mm)	35 x 130 x 130; Depth from upper-edge of DIN-rail; Height without connector; Height with connector: 166 mm
Mounting type	DIN-35 rail
Weight	650 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Power Supply; Pro 2; 1-Phase; 12 VDC / 15 A
2787 Series



Power supply; Pro 2; 1-phase; 12 VDC output voltage; 15 A output current; TopBoost + PowerBoost; communication capability

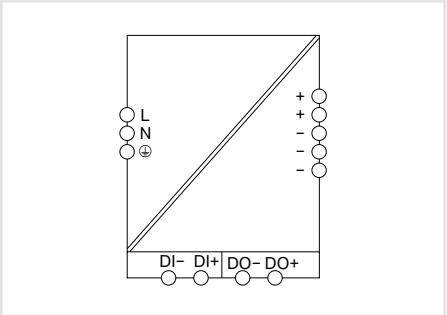
	Item No.	Pack. Unit
	2787-2135	1



Features:
- Power supply with TopBoost, PowerBoost and configurable overload behavior
- Configurable digital signal input and output, optical status indication, function keys
- Communication interface for configuration and monitoring
- Optional connection to IO-Link
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Pluggable connection technology
- Electrically isolated output voltage (SELV/PELV) per EN 61010/UL 61010
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

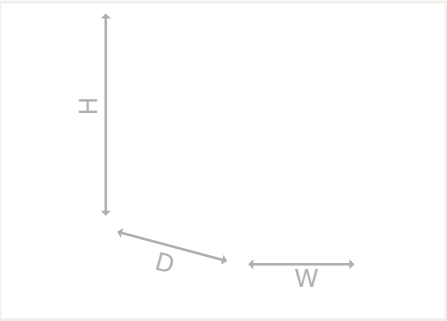
Input	
Nominal input voltage $U_{i\,nom}$	1 x AC 100 … 240 VAC
Input voltage range	90 … 264 VAC; 130 … 373 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	2 … 0.88 A (nominal load)
Inrush current	≤ 12 A (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 40 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	12 VDC (SELV) / ≤ 1 %
Output voltage range	12 … 14 VDC (adjustable)
Nominal output current $I_{o\,nom}$	15 A (12 VDC)
Nominal output power	180 W
Residual ripple	≤ 70 mV (peak-to-peak)
Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)
Signaling and Communication	
Signaling	Optical status indication (DC OK; load; warning and error states); Digital signal input and output (DI/DO)
Communication	Communication interface, can be used with WAGO USB Communication Cable (750-923) or IO-Link Communication Module (2789-9080) or Modbus RTU Communication Module (2789-9015)
Efficiency/Power Losses	
Power loss P_l	≤ 0.8 W (standby); ≤ 2.3 W (no load); ≤ 14 W (nominal load / 230 VAC)
Efficiency (typ.)	95.3%
Fuse Protection	
Internal fuse	T 6.3 A / 250 VAC
Recommended backup fusing	16 A (for USA/Canada: 15 A)
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-GND/sec.-GND/ sec.-signal)	3.51 kVAC / 2.2 kVAC / 0.5 kVDC / 0.5 kVDC
Protection class/type	I / IP20 (per EN 60529)
Overvoltage category	III (≤ 2000 m a. s.l.); II (> 2000 m a. s.l.)
Short-circuit-protected	Yes
Parallel/series operation	Yes/Yes
MTBF	> 1.200.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	–3 %/K (> +60°C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/Output/Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical Data/Mechanical Data/Material Data	
Width x Height x Depth (mm)	50 x 130 x 130; Depth from upper-edge of DIN-rail; Height without connector; Height with connector: 166 mm
Mounting type	DIN-35 rail
Weight	1000 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Switched-Mode Power Supply; Pro 2; 1-Phase; 24 VDC / 5 A
2787 Series



Power supply; Pro 2; 1-phase; 24 VDC output voltage; 5 A output current; TopBoost + PowerBoost; communication capability

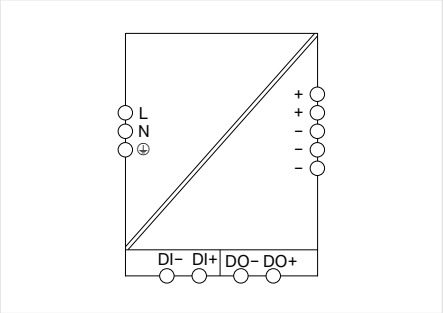
	Item No.	Pack. Unit
	2787-2144	1
DNVGL	2787-2144/000-030	1
DNVGL + Protective coating	2787-2144/000-070	1



Features:
- Power supply unit with TopBoost, PowerBoost and configurable overload behavior
- Configurable digital signal input and output; optical status indication, function buttons
- Communication interface for configuration and monitoring
- Optional connection to IO-Link
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Pluggable connection technology
- Electrically isolated output voltage (SELV/PELV) per EN 61010/UL 61010
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

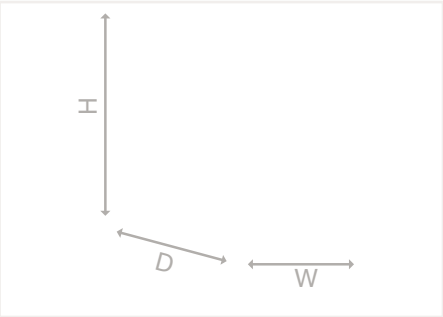
Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	90 … 264 VAC; 130 … 373 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 1 A (240 VAC; Nominal load); ≤ 1.8 A (100 VAC; Nominal load)
Inrush current	≤ 9 A (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	24 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	5 A (24 VDC)
Nominal output power	120 W
Residual ripple	≤ 70 mV (peak-to-peak)
Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)
Signaling and Communication	
Signaling	Optical status indication (DC-OK; load; warning and error states); digital signal input and output; (DI/DO)
Communication	Communication interface, can be used with WAGO USB Communication Cable (750-923) or IO-Link Communication Module (2789-9080) or Modbus RTU Communication Module (2789-9015)
Efficiency/Power Losses	
Power loss P_l	≤ 1 W (stand-by); ≤ 2 W (no load); ≤ 10 W (230 VAC; Nominal load)
Efficiency	93.8 % (230 VAC; 5 A; 25 °C)
Fuse Protection	
Internal fuse	T 6.3 A / 250 VAC
Required backup fusing	An external DC fuse is required for the DC input voltage.
Recommended backup fusing	16 A (for USA/Canada: 15 A)
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-PE/sec-PE/sec.-Signal)	3.51 kVDC / 2.2 kVDC / 0.5 kVDC / 0.5 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	III (≤ 2000 m a. s.l.); II (> 2000 m a. s.l.)
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/Yes
MTBF	> 1.000.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	See instruction leaflet
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.08 … 0.5 mm² / 0.08 … 0.5 mm² / 28 … 20 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	35 x 166 x 130; height with connector; depth from upper edge of DIN-35 rail
Mounting type	DIN-35 rail
Weight	650 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201 (2787-2144/000-030 and 2787-2144/000-070: DNVGL; UL HazLoc)

Switched-Mode Power Supply; Pro 2; 1-Phase; 24 VDC / 10 A
2787 Series



Power supply; Pro 2; 1-phase; 24 VDC output voltage; 10 A output current; TopBoost + PowerBoost; communication capability

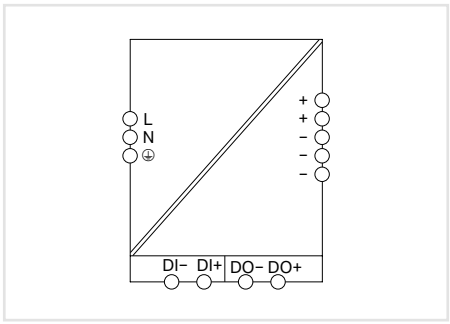
	Item No.	Pack. Unit
	2787-2146	1
DNVGL	2787-2144/000-030	1
DNVGL + Protective coating	2787-2144/000-070	1



Features:
- Power supply unit with TopBoost, PowerBoost and configurable overload behavior
- Configurable digital signal input and output; optical status indication, function buttons
- Communication interface for configuration and monitoring
- Optional connection to IO-Link
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Pluggable connection technology
- Electrically isolated output voltage (SELV/PELV) per EN 61010/UL 61010
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

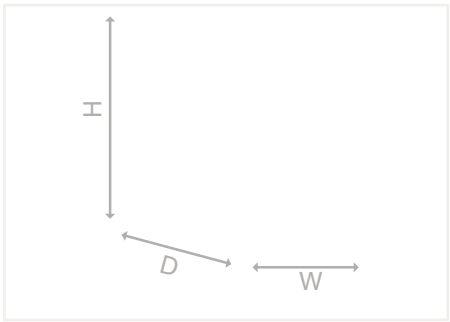
Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	90 … 264 VAC; 130 … 373 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 1.2 A (240 VAC; Nominal load); ≤ 2.7 A (100 VAC; Nominal load)
Inrush current	≤ 11 A (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	24 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	10 A (24 VDC)
Nominal output power	240 W
Residual ripple	≤ 70 mV (peak-to-peak)
Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)
Signaling and Communication	
Signaling	Optical status indication (DC-OK; load; warning and error states); digital signal input and output; (DI/DO)
Communication	Communication interface, can be used with WAGO USB Communication Cable (750-923) or IO-Link Communication Module (2789-9080) or Modbus RTU Communication Module (2789-9015)
Efficiency/Power Losses	
Power loss P_l	≤ 1 W (stand-by); ≤ 2.2 W (no load); ≤ 15.5 W (nominal load / 230 VAC)
Efficiency	95.3 % (230 VAC; 10 A; 25 °C)
Fuse Protection	
Internal fuse	T 6.3 A / 250 VAC
Recommended backup fusing	16 A (for USA/Canada: 15 A)
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-PE/sec-PE/ sec.-Signal)	3.51 kVDC / 2.2 kVDC / 0.5 kVDC / 0.5 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	III (≤ 2000 m a. s.l.); II (> 2000 m a. s.l.)
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/Yes
MTBF	> 1.200.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	See instruction leaflet
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	50 x 166 x 130; height with connector; depth from upper edge of DIN-35 rail
Mounting type	DIN-35 rail
Weight	1402 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201 (2787-2144/000-030 and 2787-2144/000-070: DNVGL; UL HazLoc)

Switched-Mode Power Supply; Pro 2; 1-Phase; 24 VDC / 20 A
2787 Series



Power supply; Pro 2; 1-phase; 24 VDC output voltage; 20 A output current; TopBoost + PowerBoost; communication capability

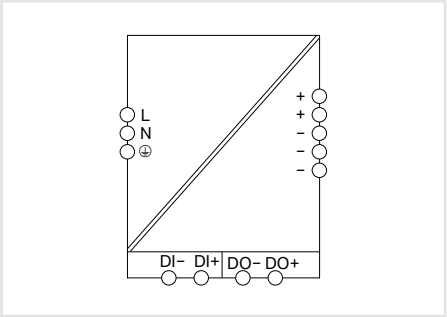
	Item No.	Pack. Unit
	2787-2147	1
DNVGL	**2787-2147/000-030**	1
DNVGL + Protective coating	**2787-2147/000-070**	1



Features:
- Power supply unit with TopBoost, PowerBoost and configurable overload behavior
- Configurable digital signal input and output; optical status indication, function buttons
- Communication interface for configuration and monitoring
- Optional connection to IO-Link
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Pluggable connection technology
- Electrically isolated output voltage (SELV/PELV) per EN 61010/UL 61010
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips
- Optional connection to IO-Link, Modbus RTU, Modbus TCP
- Coated PCBs, resistant to flowing mixed gas per ISA S71.04:1985, G3 Group A

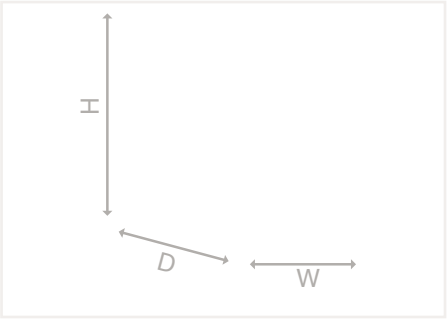
Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	90 … 264 VAC; 130 … 373 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 2.2 A (240 VAC; Nominal load); ≤ 5.9 A (100 VAC; Nominal load)
Inrush current	≤ 12 A (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 24 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	24 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	20 A (24 VDC)
Nominal output power	480 W
Residual ripple	≤ 70 mV (peak-to-peak)
Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)
Signaling and Communication	
Signaling	Optical status indication (DC-OK; load; warning and error states); digital signal input and output; (DI/DO)
Communication	Communication interface, can be used with WAGO USB Communication Cable (750-923) or IO-Link Communication Module (2789-9080) or Modbus RTU Communication Module (2789-9015) or Modbus TCP Communication Module (2789-9052)
Efficiency/Power Losses	
Power loss P_l	≤ 1.3 W (Standby); ≤ 2.6 W (No load); ≤ 24 W (230 VAC; Nominal load)
Efficiency	95.4 % (230 VAC; 20 A; 25 °C)
Fuse Protection	
Internal fuse	T 10 A / 250 VAC
Recommended backup fusing	16 A (for USA/Canada: 15 A)
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-PE/sec-PE/sec.-Signal)	3.51 kVDC / 2.2 kVDC / 0.5 kVDC / 0.5 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	III (≤ 2000 m a. s.l.); II (> 2000 m a. s.l.)
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/Yes
MTBF	> 800.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-1 %/V (> +40 °C and Ui < 100 VAC); –3 %/K (> +55 °C and Ui < 230 VAC); –3 %/K (> +60 °C and Ui ≥ 230 VAC); –5 %/V (Uo > 24 VDC)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®/Push-in CAGE CLAMP®
Input/signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	70 x 169 x 130; height with connector; depth from upper edge of DIN-35 rail
Mounting type	DIN-35 rail
Weight	1450 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201 (2787-2144/000-030 and 2787-2144/000-070: DNVGL; UL HazLoc)

Switched-Mode Power Supply; Pro 2; 1-Phase; 24 VDC / 40 A
2787 Series



Power supply; Pro 2; 1-phase; 24 VDC output voltage; 40 A output current; TopBoost + PowerBoost; communication capability; Input voltage range: 200 … 240 VAC

	Item No.	Pack. Unit
	2787-2448	1
DNVGL	**2787-2448/ 000-030**	1
DNVGL + Protective coating	**2787-2448/ 000-070**	1

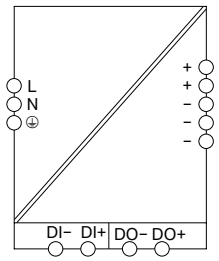


Features:
- Power supply unit with TopBoost, PowerBoost and configurable overload behavior
- Configurable digital signal input and output; optical status indication, function buttons
- Communication interface for configuration and monitoring
- Optional connection to IO-Link
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Pluggable connection technology
- Electrically isolated output voltage (SELV/PELV) per EN 61010/UL 61010
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

Input	
Nominal input voltage $U_{i\,nom}$	1 x 200 … 240 VAC
Input voltage range	180 … 264 VAC; 255 … 373 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 4.3 A (240 VAC; Nominal load); ≤ 5.1 A (200 VAC; Nominal load)
Inrush current	≤ 10 A (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 25 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	24 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	40 A (24 VDC)
Nominal output power	960 W
Residual ripple	≤ 70 mV (peak-to-peak)
Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)
Signaling and Communication	
Signaling	Optical status indication (DC-OK; load; warning and error states); digital signal input and output; (DI/DO)
Communication	Communication interface, can be used with WAGO USB Communication Cable (750-923) or IO-Link Communication Module (2789-9080) or Modbus RTU Communication Module (2789-9015)
Efficiency/Power Losses	
Power loss P_l	≤ 1.5 W (stand-by); ≤ 4 W (no load); ≤ 50 W (nominal load / 230 VAC)
Efficiency	≤ 1.5 W (Standby); ≤ 2.4 W (No load); ≤ 40 W (230 VAC; Nominal load)
Fuse Protection	
Internal fuse	T 10 A / 250 VAC
Recommended backup fusing	16 A (for USA/Canada: 15 A)C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-PE/sec-PE/sec.-Signal)	3.51 kVDC / 2.2 kVDC / 0.5 kVDC / 0.5 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	III (≤ 2000 m a. s.l.); II (> 2000 m a. s.l.)
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/Yes
MTBF	> 900.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-3 %/K (> +55 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	120 x 169 x 130; height with connector; depth from upper edge of DIN-35 rail
Mounting type	DIN-35 rail
Weight	1900 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201 (2787-2144/000-030 and 2787-2144/000-070: DNVGL; UL HazLoc)

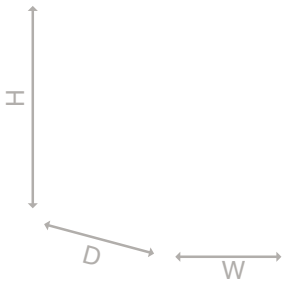
Power Supply; Pro 2; 1-Phase; 48 VDC / 2.5 A
2787 Series

1



Power supply; Pro 2; 1-phase; 48 VDC output voltage; 2.5 A output current; TopBoost + PowerBoost; communication capability

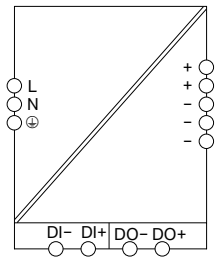
	Item No.	Pack. Unit
	2787-2154	1



Features:
- Power supply with TopBoost, PowerBoost and configurable overload behavior
- Configurable digital signal input and output, optical status indication, function keys
- Communication interface for configuration and monitoring
- Optional connection to IO-Link
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Pluggable connection technology
- Electrically isolated output voltage (SELV/PELV) per EN 61010/UL 61010
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

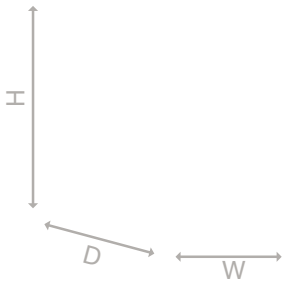
Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	90 … 264 VAC; 130 … 373 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	1.3 … 0.6 A (nominal load)
Inrush current	≤ 11 A (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 40 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	48 VDC (SELV) / ≤ 1 %
Output voltage range	48 … 56 VDC (adjustable)
Nominal output current $I_{o\,nom}$	5 A (48 VDC)
Nominal output power	240 W
Residual ripple	≤ 70 mV (peak-to-peak)
Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)
Signaling and Communication	
Signaling	Optical status indication (DC OK; load; warning and error states); Digital signal input and output (DI/DO)
Communication	Communication interface, can be used with WAGO USB Communication Cable (750-923) or IO-Link Communication Module (2789-9080) or Modbus RTU Communication Module (2789-9015)
Efficiency/Power Losses	
Power loss P_l	≤ 0.8 W (standby); ≤ 1.7 W (no load); ≤ 9 W (nominal load / 230 VAC)
Efficiency (typ.)	95.3 %
Fuse Protection	
Internal fuse	T 6.3 A / 250 VAC
Recommended backup fusing	16 A (for USA/Canada: 15 A)
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-GND/sec-GND/ sec.-Signal)	3.51 kVAC / 2.2 kVAC / 0.5 kVDC / 0.5 kVDC
Protection class/type	I / IP20 (per EN 60529)
Overvoltage category	III (≤ 2000 m a. s.l.); II (> 2000 m a. s.l.)
Short-circuit-protected	Yes
Parallel/series operation	Yes/Yes
MTBF	> 900.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	See instruction leaflet
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/Output/Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical Data/Mechanical Data/Material Data	
Width x Height x Depth (mm)	35 x 130 x 130; Depth from upper-edge of DIN-rail; Height without connector; Height with connector: 166 mm
Mounting type	DIN-35 rail
Weight	650 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Power Supply; Pro 2; 1-Phase; 48 VDC / 10 A
2787 Series



Power supply; Pro 2; 1-phase; 48 VDC output voltage; 10 A output current; TopBoost + PowerBoost; communication capability

	Item No.	Pack. Unit
	2787-2157	1



Features:
- Power supply with TopBoost, PowerBoost and configurable overload behavior
- Configurable digital signal input and output, optical status indication, function keys
- Communication interface for configuration and monitoring
- Optional connection to IO-Link
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Pluggable connection technology
- Electrically isolated output voltage (SELV/PELV) per EN 61010/UL 61010
- Marker slot for WAGO Marker Cards (WMB) and WAGO Marking Strips

Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	90 … 264 VAC; 130 … 373 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	5.9 … 2.2 A (nominal load)
Inrush current	≤ 12 A (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 24 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	48 VDC (SELV) / ≤ 1 %
Output voltage range	48 … 56 VDC (adjustable)
Nominal output current $I_{o\,nom}$	10 A (48 VDC)
Nominal output power	480 W
Residual ripple	≤ 70 mV (peak-to-peak)
Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)
Signaling and Communication	
Signaling	Optical status indication (DC OK; load; warning and error states); Digital signal input and output (DI/DO)
Communication	Communication interface, can be used with WAGO USB Communication Cable (750-923) or IO-Link Communication Module (2789-9080) or Modbus RTU Communication Module (2789-9015)
Efficiency/Power Losses	
Power loss P_l	≤ 1.3 W (standby); ≤ 2.6 W (no load); ≤ 24 W (nominal load / 230 VAC)
Efficiency (typ.)	95.3 %
Fuse Protection	
Internal fuse	T 10 A / 250 VAC
Recommended backup fusing	16 A (for USA/Canada: 15 A)
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-GND/sec-GND/ sec.-Signal)	3.51 kVAC / 2.2 kVAC / 0.5 kVAC / 0.5 kVDC
Protection class/type	I / IP20 (per EN 60529)
Overvoltage category	III (≤ 2000 m a. s.l.); II (> 2000 m a. s.l.)
Short-circuit-protected	Yes
Parallel/series operation	Yes/Yes
MTBF	> 900.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	See instruction leaflet
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output/signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical Data/Mechanical Data/Material Data	
Width x Height x Depth (mm)	70 x 130 x 130; Depth from upper-edge of DIN-rail; Height without connector; Height with connector: 166 mm
Mounting type	DIN-35 rail
Weight	1450 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Accessories for Pro 2 Power Supplies
Modbus® Communication Module

Communication module; MODBUS TCP/UDP; RJ45; communication capability		
	Item No.	Pack. Unit
	2789-9052	1

Features:
- This communication module snaps onto a Pro 2 Power Supply's communication interface.
- Modbus TCP/UDP
- Suitable for monitoring the subordinate power supply
- Function blocks for standard control systems available upon request
- Integrated ETHERNET switch for convenient wiring
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

Signaling and Communication	
Signaling	LED red (ERR); LED green (COM OK); ETHERNET ports: LED green (LNK/ACTx); LED orange (SPEEDx)
Communication	Modbus (TCP, UDP)
ETHERNET protocols	HTTP(S); BootP; DHCP; SNTP
Configuration options	Web-Based Management
Visualization	Web Visu
Transmission rate	ETHERNET: 10/100 Mbit/s
Safety and Protection	
Isolation	Functional insulation 500 V
Protection class	III
Protection type	IP20 (per EN 60529)
Environmental Conditions	
Surrounding air temperature (operation)	–25 … +55 °C
Relative humidity	5 … 96 % (no condensation permissible)
Connection Data	
Connection technology	Modbus TCP/UDP: 2 x RJ-45
Transmission medium	ETHERNET: twisted pair, S/UTP; 100 Ω; cat. 5
Cable length	≤ 100 m
Physical Data	
Width	35 mm
Height	80 mm
Depth	22 mm
Mechanical Data	
Mounting type	Snaps onto a Pro 2 Power Supply's communication interface (X4)
Weight	45 g
Standards and Specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Accessories for Pro 2 Power Supplies
Modbus RTU Communication Module
2789 Series

Communication module; Modbus RTU; RJ45; communication capability		
	Item No.	Pack. Unit
	2789-9015	1

Features:
- Communication module snaps onto Pro 2 Power Supplies' communication interface
- Modbus RTU (RS-485)
- Suitable for monitoring the subordinate power supply
- Function blocks for standard control systems available upon request
- Pluggable connection technology
- Marker slot for WAGO Marker Cards (WMB) and WAGO Marking Strips
- Requires RJ-45 terminating resistor (120 Ω) for long cables (2789-9915)

Input	
Nominal input voltage $U_{i\,nom}$	5 VDC (SELV)
Input voltage range	4.5 … 5.5 VDC (SELV)
Input current I_i	≤ 40 mA
Signaling and Communication	
Signaling	1 green LED (PWR); 1 yellow LED (RxD); 1 yellow LED (TxD)
Communication	Modbus RTU via RS-485
Baud rate	4.8 … 115.2 kBd
Number of devices (max.)	247
Safety and Protection/Environmental Requirements	
Test voltage (input/output)	2 kVAC; 50 Hz; 1 min
Test voltage (input/output/shield)	1 kVAC; 50 Hz; 1 min
Overvoltage category	III
Pollution degree	2
Protection class	III
Insulation type	Functional insulation
Protection class	IP20
Surrounding air temperature (operation)	–25 … +70 °C
Surrounding air temperature (storage)	–40 … +85 °C
Relative humidity	5 … 95 % (non-condensing)
Operating altitude (max.)	5000 m
Connection Data	
Connection technology	2 x RJ-45
Transmission medium	Shielded copper cable
Physical Data/Mechanical Data/Material Data	
Width x Height x Depth (mm)	35 x 80 x 22
Mounting type	Snaps onto a Pro 2 Power Supply's communication interface (X4)
Weight	35 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Accessories for Pro 2 Power Supplies
Communication module IO-Link

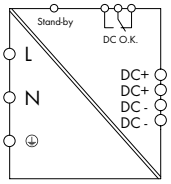
Communication module; IO-Link; communication capability

	Item No.	Pack. Unit
	2789-9080	1

Features:
- Communication module to snap onto communication interface of Pro 2 power supply
- IO-Link device; supports IO-Link specification 1.1
- Suitable for configuring and monitoring the subordinate power supply
- Function block for current control systems available on request
- Pluggable connection technology
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

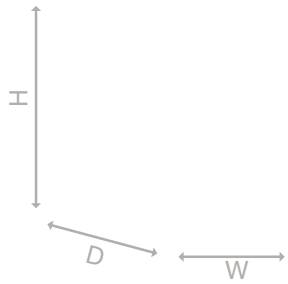
Operating Data	
Supply voltage	DC 24 V (SELV; via IO-Link Master)
Current consumption	≤ 15 mA
Signaling and Communication	
Signaling	LED red (ERR): LED green (COM)
Communication	IO-Link
IO-Link version	1.1
Baud rate	230.4 kbit/s (COM 3)
Data width	5 bytes
Data update rate	25 ms
Safety and Protection/Environmental Requirements	
Isolation	0.63 kVDC
Protection class	IP20 (per EN 60529)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	5 … 96 % (no condensation permissible)
Connection Data	
Connection technology	CAGE CLAMP®
Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Cable length	≤ 20 m
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	35 x 95 x 22; height including connector; depth in mounted position
Mounting type	Snap onto communication interface (X4) of Pro 2 power supply
Weight	35 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Switched-Mode Power Supply; Pro; 1-Phase; 24 VDC / 3 A
787 Series



Switched-Mode Power Supply; Pro; 1-phase; Output voltage: 24 VDC; Output current: 3 A; TopBoost + PowerBoost; DC OK contact

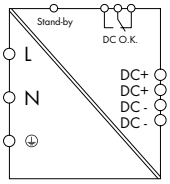
	Item No.	Pack. Unit
	787-818	1



Features:
- Switched-mode power supply with PowerBoost and TopBoost
- Switch off the output and minimize power consumption via stand-by input
- Output monitoring via DC OK contact
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Electrically isolated output voltage (SELV) per EN 61010-1/ 61010-2-201/ UL 60950-1; PELV per EN 60204

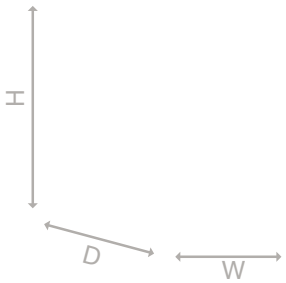
Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	85 … 264 VAC; 120 … 373 VDC
Input voltage derating	–5 %/V (< 95 VAC)
Nominal mains frequency range	50 … 60 Hz; 0 Hz
Input current I_i	≤ 0.51 A (240 VAC; 3 ADC)
Inrush current	≤ 30 A (peak)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 70 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	22 … 29.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	3 A (24 VDC)
Nominal output power	72 W
Residual ripple	≤ 70 mV (peak-to-peak)
Overload behavior	TopBoost/PowerBoost/Constant current mode
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x Error LED (red); 1 x Stand-by input; 1 x DC OK relay contact (changeover contact)
Efficiency/Power Losses	
Power loss P_l	≤ 0.5 W (stand-by); ≤ 3 W (no load); ≤ 8.8 W (nominal load)
Efficiency (typ.)	87.8 %
Fuse Protection	
Internal fuse	T 2 A / 250 VAC
Recommended backup fusing	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-GND/sec.-GND)	4.242 kVDC / 2.2 kVDC / 0.7 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	–3 %/K (> +50 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
LED indication (solid/fine-stranded/AWG)	0.08 … 0.5 mm² / 0.08 … 0.5 mm² / 28 … 20 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	40 x 163 x 163; height including connector; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	960 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; 61010-2-201; EN 61204-3; EN 61558-2-16; UL 60950; UL 508

Switched-Mode Power Supply; Pro; 1-Phase; 24 VDC / 5 A
787 Series



Switched-mode power supply; Pro; 1-phase; 24 VDC output voltage; 5 A output current; TopBoost + PowerBoost; DC OK contact

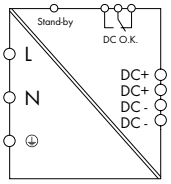
	Item No.	Pack. Unit
	787-822	1



Features:
- Switched-mode power supply with PowerBoost and TopBoost
- Switch off the output and minimize power consumption via stand-by input
- Output monitoring via DC OK contact
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Electrically isolated output voltage (SELV) per EN 61010-1/ 61010-2-201/ UL 60950-1; PELV per EN 60204

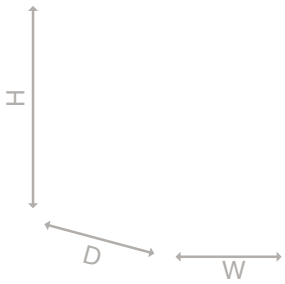
Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	85 … 264 VAC; 120 … 373 VDC
Nominal mains frequency range	50 … 60 Hz; 0 Hz
Input current I_i	≤ 0.97 A (240 VAC; 5 ADC)
Inrush current	≤ 30 A (peak)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 35 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	22 … 29.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	5 A (24 VDC)
Nominal output power	120 W
Residual ripple	≤ 70 mV (peak-to-peak)
Overload behavior	TopBoost/PowerBoost/Constant current mode
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x Error LED (red); 1 x Stand-by input; 1 x DC OK relay contact (changeover contact)
Efficiency/Power Losses	
Power loss P_l	≤ 0.5 W (stand-by); ≤ 5 W (no load); ≤ 14.6 W (nominal load)
Efficiency (typ.)	87.8 %
Fuse Protection	
Internal fuse	T 4 A / 250 VAC
Recommended backup fusing	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-GND/sec.-GND)	4.242 kVDC / 2.2 kVDC / 0.7 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	−25 … +70 °C (device starts at −40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	−3 %/K (> +50 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
LED indication (solid/fine-stranded/AWG)	0.08 … 0.5 mm² / 0.08 … 0.5 mm² / 28 … 20 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	57 x 163 x 163; height including connector; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	1268 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; 61010-2-201; EN 61204-3; EN 61558-2-16; UL 60950; UL 508

Switched-Mode Power Supply; Pro; 1-Phase; 24 VDC / 10 A
787 Series



Switched-mode power supply; Pro; 1-phase; 24 VDC output voltage; 10 A output current; TopBoost + PowerBoost; DC OK contact

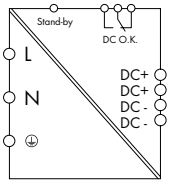
	Item No.	Pack. Unit
	787-832	1



Features:
- Switched-mode power supply with PowerBoost and TopBoost
- Switch off the output and minimize power consumption via stand-by input
- Output monitoring via DC OK contact
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Electrically isolated output voltage (SELV) per EN 61010-1/ 61010-2-201/ UL 60950-1; PELV per EN 60204

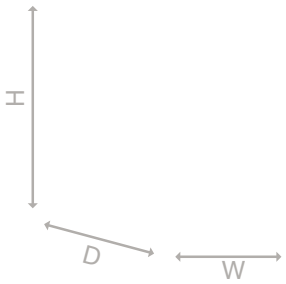
Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	85 … 264 VAC; 120 … 373 VDC
Nominal mains frequency range	50 … 60 Hz; 0 Hz
Input current I_i	≤ 1.2 A (240 VAC; 10 ADC)
Inrush current	≤ 8 A (active PFC)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 24 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	22 … 29.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	10 A (24 VDC)
Nominal output power	240 W
Residual ripple	≤ 70 mV (peak-to-peak)
Overload behavior	TopBoost/PowerBoost/Constant current mode
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x Error LED (red); 1 x Stand-by input; 1 x DC OK relay contact (changeover contact)
Efficiency/Power Losses	
Power loss P_l	≤ 0.8 W (stand-by); ≤ 3.8 W (no load); ≤ 24 W (nominal load)
Efficiency (typ.)	90 %
Fuse Protection	
Internal fuse	T 6.3 A / 250 VAC
Recommended backup fusing	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-GND/sec.-GND)	4.242 kVDC / 2.2 kVDC / 0.7 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	−25 … +70 °C (device starts at −40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	−3 %/K (> +50 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
LED indication (solid/fine-stranded/AWG)	0.08 … 0.5 mm² / 0.08 … 0.5 mm² / 28 … 20 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	57 x 163 x 179; height including connector; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	1472.2 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; 61010-2-201; EN 61204-3; EN 61558-2-16; UL 60950; UL 508

Switched-Mode Power Supply; Pro; 1-Phase; 24 VDC / 20 A
787 Series



Switched-mode power supply; Pro; 1-phase; 24 VDC output voltage; 20 A output current; TopBoost + PowerBoost; DC OK contact

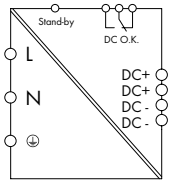
	Item No.	Pack. Unit
	787-834	1



Features:
- Switched-mode power supply with PowerBoost and TopBoost
- Switch off the output and minimize power consumption via stand-by input
- Output monitoring via DC OK contact
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Electrically isolated output voltage (SELV) per EN 61010-1/ 61010-2-201/ UL 60950-1; PELV per EN 60204

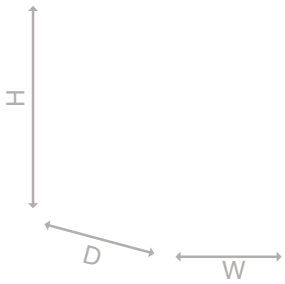
Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	85 … 264 VAC; 120 … 373 VDC
Input voltage derating	–1.5 %/V (< 110 VAC)
Nominal mains frequency range	50 … 60 Hz; 0 Hz
Input current I_i	≤ 2.3 A (230 VAC; 20 ADC)
Inrush current	≤ 8 A (active PFC)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 25 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	22 … 29.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	20 A (24 VDC)
Nominal output power	480 W
Residual ripple	≤ 70 mV (peak-to-peak)
Overload behavior	TopBoost/PowerBoost/Constant current mode
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x Error LED (red); 1 x Stand-by input; 1 x DC OK relay contact (changeover contact)
Efficiency/Power Losses	
Power loss P_l	≤ 0.8 W (stand-by); ≤ 4.8 W (no load); ≤ 43.2 W (nominal load)
Efficiency (typ.)	91 %
Fuse Protection	
Internal fuse	T 10 A / 250 VAC
Recommended backup fusing	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-GND/sec.-GND)	4.242 kVDC / 2.2 kVDC / 0.7 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	–3 %/K (> +50 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
LED indication (solid/fine-stranded/AWG)	0.08 … 0.5 mm² / 0.08 … 0.5 mm² / 28 … 20 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	97 x 171 x 187; height including connector; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	2300 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; 61010-2-201; EN 61204-3; EN 61558-2-16; UL 60950; UL 508

Switched-Mode Power Supply; Pro; 1-Phase; 48 VDC / 5 A
787 Series



Switched-mode power supply; Pro; 1-phase; 48 VDC output voltage; 5 A output current; TopBoost + PowerBoost; DC OK contact

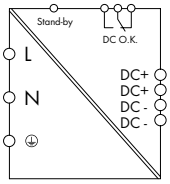
	Item No.	Pack. Unit
	787-833	1



Features:
- Switched-mode power supply with PowerBoost and TopBoost
- Switch off the output and minimize power consumption via stand-by input
- Output monitoring via DC OK contact
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Electrically isolated output voltage (SELV) per EN 61010-1/ 61010-2-201/ UL 60950-1; PELV per EN 60204

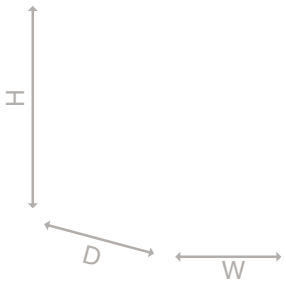
Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	85 … 264 VAC; 120 … 373 VDC
Input voltage derating	–1.5 %/V (< 110 VAC)
Nominal mains frequency range	50 … 60 Hz; 0 Hz
Input current I_i	≤ 1.2 A (230 VAC; 5 ADC)
Inrush current	≤ 8 A (active PFC)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	48 VDC (SELV) / ≤ 1 %
Output voltage range	33 … 52 VDC (adjustable)
Nominal output current $I_{o\,nom}$	5 A (48 VDC)
Nominal output power	240 W
Residual ripple	≤ 70 mV (peak-to-peak)
Overload behavior	TopBoost/PowerBoost/Constant current mode
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x Error LED (red); 1 x Stand-by input; 1 x DC OK relay contact (changeover contact)
Efficiency/Power Losses	
Power loss P_l	≤ 0.8 W (stand-by); ≤ 7.4 W (no load); ≤ 21.6 W (nominal load)
Efficiency (typ.)	91 %
Fuse Protection	
Internal fuse	T 6.3 A / 250 VAC
Recommended backup fusing	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-GND/sec.-GND)	4.242 kVDC / 2.2 kVDC / 0.7 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	–3 %/K (> +50 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
LED indication (solid/fine-stranded/AWG)	0.08 … 0.5 mm² / 0.08 … 0.5 mm² / 28 … 20 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	57 x 163 x 179; height including connector; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	1475 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; 61010-2-201; EN 61204-3; EN 61558-2-16; UL 60950; UL 508

Switched-Mode Power Supply; Pro; 1-Phase; 48 VDC / 10 A
787 Series



Switched-mode power supply; Pro; 1-phase; 48 VDC output voltage; 10 A output current; TopBoost + PowerBoost; DC OK contact

	Item No.	Pack. Unit
	787-835	1

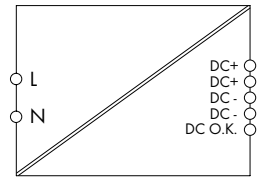


Features:
- Switched-mode power supply with PowerBoost and TopBoost
- Switch off the output and minimize power consumption via stand-by input
- Output monitoring via DC OK contact
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Electrically isolated output voltage (SELV) per EN 61010-1; 61010-2-201; UL 60950-1; PELV per EN 60204

Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	85 … 264 VAC; 120 … 373 VDC
Input voltage derating	–1.5 %/V (< 110 VAC)
Nominal mains frequency range	50 … 60 Hz; 0 Hz
Input current I_i	≤ 2.3 A (230 VAC; 10 ADC)
Inrush current	≤ 8 A (active PFC)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	48 VDC (SELV) / ≤ 1 %
Output voltage range	33 … 52 VDC (adjustable)
Nominal output current $I_{o\,nom}$	10 A (48 VDC)
Nominal output power	480 W
Residual ripple	≤ 70 mV (peak-to-peak)
Overload behavior	TopBoost/PowerBoost/Constant current mode
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x Error LED (red); 1 x Stand-by input; 1 x DC OK relay contact (changeover contact)
Efficiency/Power Losses	
Power loss P_l	≤ 0.8 W (stand-by); ≤ 4.8 W (no load); ≤ 43.2 W (nominal load)
Efficiency (typ.)	91 %
Fuse Protection	
Internal fuse	T 10 A / 250 VAC
Recommended backup fusing	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-GND/sec.-GND)	4.242 kVDC / 2.2 kVDC / 0.7 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	–3 %/K (> +50 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
LED indication (solid/fine-stranded/AWG)	0.08 … 0.5 mm² / 0.08 … 0.5 mm² / 28 … 20 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	97 x 171 x 187; height including connector; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	2460 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; 61010-2-201; EN 61204-3; EN 61558-2-16; UL 60950; UL 508

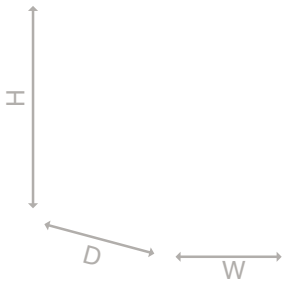
Switched-Mode Power Supply; Classic; 1-Phase; 12 VDC / 2 A
787 Series

Similar to picture



Switched-mode power supply; Classic; 1-phase; 12 VDC output voltage; 2 A output current; NEC Class 2; DC OK signal

	Item No.	Pack. Unit
	787-1601	1

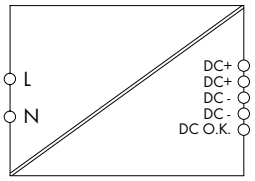


Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Bounce-free switching signal (DC O K)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 61010-1/ 61010-2-201/ UL 60950-1; PELV per EN 60204
- GL approval, also suitable for EMC 1 in conjunction with 787-980 Filter Module
- NEC Class 2 per UL 60950

Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	85 … 264 VAC; 120 … 372 VDC
Input voltage derating	–2.5 %/V (< 95 VAC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 0.29 A (240 VAC); ≤ 0.5 A (100 VAC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 120 ms (230 VAC); > 15 ms (100 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	12 VDC (SELV) / ≤ 1 %
Output voltage range	11.5 … 14.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	2 A (12 VDC); 2.1 A (< +40 °C)
Nominal output power	24 W
Residual ripple	≤ 20 mV (peak-to-peak)
Overload behavior	Constant current
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x DC OK active signal output (12 VDC; 40 mA)
Efficiency/Power Losses	
Power loss P_l	≤ 0.7 W (230 VAC; no load); ≤ 5.3 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,max.}$	≤ 5.7 W (100 VAC / 12 VDC; 2 A)
Efficiency (typ.)	82 %
Fuse Protection	
Internal fuse	T 2 A / 250 VAC
Recommended backup fusing	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec.)	4.242 kVDC
Protection class/protection type	II / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	–3 %/K (> +50 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output/signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	22.5 x 90 x 107.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	128 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; 61010-2-201; EN 61204-3; EN 60335-1; UL 60950-1; UL 508; GL

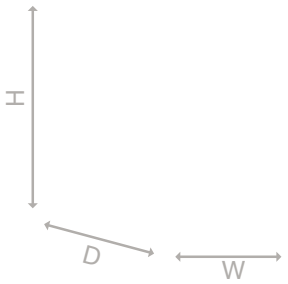
Switched-Mode Power Supply; Classic; 1-Phase; 12 VDC / 4 A
787 Series

1



Switched-mode power supply; Classic; 1-phase; 12 VDC output voltage; 4 A output current; NEC Class 2; DC OK signal

	Item No.	Pack. Unit
	787-1611	1

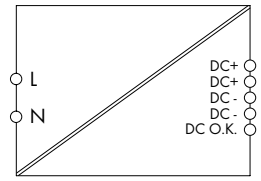


Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Bounce-free switching signal (DC O K)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 61010-1/ 61010-2-201/ UL 60950-1; PELV per EN 60204
- GL approval, also suitable for EMC 1 in conjunction with 787-980 Filter Module
- NEC Class 2 per UL 60950

Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	85 … 264 VAC; 120 … 372 VDC
Input voltage derating	–2.5 %/V (< 95 VAC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 0.46 A (240 VAC); ≤ 0.86 A (100 VAC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 120 ms (230 VAC); > 15 ms (100 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	12 VDC (SELV) / ≤ 1 %
Output voltage range	11.5 … 14.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	4 A (12 VDC); 4.2 A (< +40 °C)
Nominal output power	48 W
Residual ripple	≤ 20 mV (peak-to-peak)
Overload behavior	Constant current
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x DC OK active signal output (12 VDC; 40 mA)
Efficiency/Power Losses	
Power loss P_l	≤ 1 W (230 VAC; no load); ≤ 8 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,max.}$	9.1 W (100 VAC / 12 VDC; 4 A)
Efficiency (typ.)	86 %
Fuse Protection	
Internal fuse	T 4 A / 250 VAC
Recommended backup fusing	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec.)	4.242 kVDC
Protection class/protection type	II / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	–3 %/K (> +50 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output/signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	45 x 90 x 107.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	257.6 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; 61010-2-201; EN 61204-3; EN 60335-1; UL 60950-1; UL 508; GL

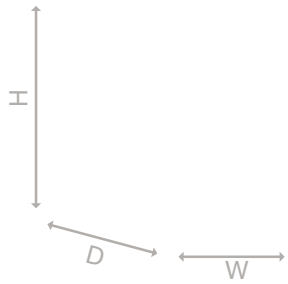
Switched-Mode Power Supply; Classic; 1-Phase; 12 VDC / 7 A
787 Series

Similar to picture



Switched-Mode Power Supply; Classic; 1-phase; Output voltage: 12 VDC; Output current: 7 A; DC OK signal

Item No.	Pack. Unit
787-1621	1



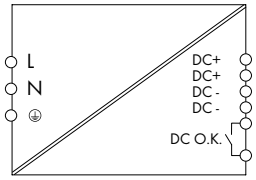
Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Bounce-free switching signal (DC O K)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 61010-1/ 61010-2-201/ UL 60950-1; PELV per EN 60204
- GL approval, also suitable for EMC 1 in conjunction with 787-980 Filter Module

Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	85 … 264 VAC; 120 … 372 VDC
Input voltage derating	–2.5 %/V (< 95 VAC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 0.9 A (240 VAC); ≤ 1.66 A (100 VAC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 80 ms (230 VAC); > 15 ms (100 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	12 VDC (SELV) / ≤ 1 %
Output voltage range	11.5 … 14.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	7 A (12 VDC); 7.5 A (< +40 °C)
Nominal output power	84 W
Residual ripple	≤ 20 mV (peak-to-peak)
Overload behavior	Constant current
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x DC OK active signal output (12 VDC; 40 mA)
Efficiency/Power Losses	
Power loss P_l	≤ 1 W (230 VAC; no load); ≤ 16.2 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,max.}$	19.8 W (100 VAC / 12 VDC; 7 A)
Efficiency (typ.)	86 %
Fuse Protection	
Internal fuse	T 4 A / 250 VAC
Recommended backup fusing	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec.)	4.242 kVDC
Protection class/protection type	II / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	–3 %/K (> +50 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output/signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	52 x 90 x 119; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	384 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; 61010-2-201; EN 61204-3; EN 60335-1; UL 60950-1; UL 508; GL

Switched-Mode Power Supply; Classic; 1-Phase; 12 VDC / 15 A
787 Series

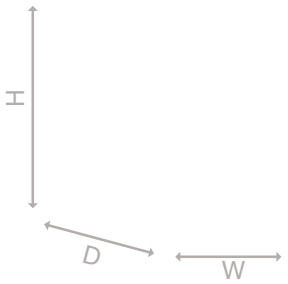
1

Similar to picture



Switched-Mode Power Supply; Classic; 1-phase; Output voltage: 12 VDC; Output current: 15 A; TopBoost; DC OK signal

Item No.	Pack. Unit
787-1631	1

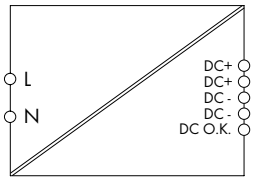


Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Bounce-free switching signal (DC O K)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 61010-1/ 61010-2-201/ UL 60950-1; PELV per EN 60204
- GL approval
- Integrated TopBoost enables secondary-side protection via miniature circuit breakers.

Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	85 … 264 VAC; 120 … 372 VDC
Input voltage derating	–2.5 %/V (< 100 VAC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 0.93 A (240 VAC); ≤ 2.05 A (100 VAC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 28 ms (230 VAC); > 28 ms (100 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	12 VDC (SELV) / ≤ 1 %
Output voltage range	11.5 … 15 VDC (adjustable)
Nominal output current $I_{o\,nom}$	15 A (12 VDC)
Nominal output power	180 W
Residual ripple	≤ 35 mV (peak-to-peak)
Overload behavior	Constant current
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x DC OK contact (make contact; max. 30 VAC/DC; 1 A)
Efficiency/Power Losses	
Power loss P_l	≤ 4.4 W (230 VAC; no load); ≤ 21.8 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,max.}$	24.7 W (100 VAC / 12 VDC; 15 A)
Efficiency (typ.)	90 %
Fuse Protection	
Internal fuse	T 6.3 A / 250 VAC
Recommended backup fusing	Circuit breaker: 10 A, 16 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-GND/sec.-GND)	4.242 kVDC / 2.2 kVDC / 0.7 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	–5 %/K (> +60 °C; 196… 264 VAC); –2.5 %/K (> +50 °C; 85 … 195 VAC)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output/signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	55 x 127 x 172 ; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	930 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; 61010-2-201; EN 61204-3; UL 60950-1; UL 508; GL

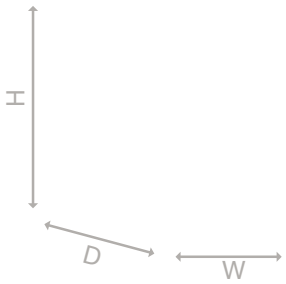
Switched-Mode Power Supply; Classic; 1-Phase; 24 VDC / 1 A
787 Series

Similar to picture



Switched-Mode Power Supply; Classic; 1-phase; Output voltage: 24 VDC; Output current: 1 A; NEC Class 2; DC OK signal

	Item No.	Pack. Unit
	787-1602	1



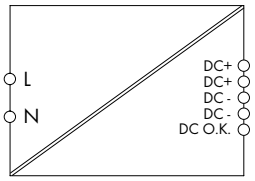
Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Bounce-free switching signal (DC O K)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 61010-1/ 61010-2-201/ UL 60950-1; PELV per EN 60204
- GL approval, also suitable for EMC 1 in conjunction with 787-980 Filter Module
- NEC Class 2 per UL 60950

Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	85 … 264 VAC; 120 … 372 VDC
Input voltage derating	–2.5 %/V (< 95 VAC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 0.28 A (240 VAC); ≤ 0.49 A (100 VAC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 120 ms (230 VAC); > 20 ms (100 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	23 … 28.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	1 A (24 VDC); 1.2 A (< 40 °C)
Nominal output power	24 W
Residual ripple	≤ 20 mV (peak-to-peak)
Overload behavior	Constant current
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x DC OK active signal output (24 VDC; 20 mA)
Efficiency/Power Losses	
Power loss P_l	≤ 1 W (230 VAC; no load); ≤ 4 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,max.}$	5 W (100 VAC / 24 VDC; 1 A)
Efficiency (typ.)	86 %
Fuse Protection	
Internal fuse	T 2 A / 250 VAC
Recommended backup fusing	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec.)	4.242 kVDC
Protection class/protection type	II / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	–3 %/K (> +50 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output/signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	22.5 x 90 x 107.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	128 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; 61010-2-201; EN 61204-3; EN 60335-1; UL 60950-1; UL 508; GL

Switched-Mode Power Supply; Classic; 1-Phase; 24 VDC / 2 A
787 Series

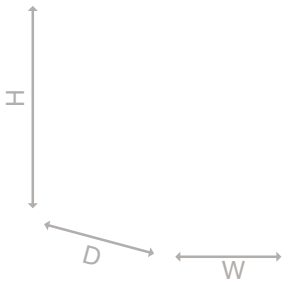
1

Similar to picture



Switched-Mode Power Supply; Classic; 1-phase; Output voltage: 24 VDC; Output current: 2 A; NEC Class 2; DC OK signal

	Item No.	Pack. Unit
	787-1606	1

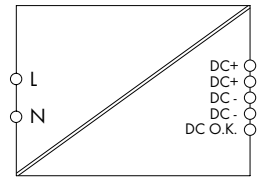


Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Bounce-free switching signal (DC O K)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 61010-1/ 61010-2-201/ UL 60950-1; PELV per EN 60204
- GL approval, also suitable for EMC 1 in conjunction with 787-980 Filter Module
- NEC Class 2 per UL 60950

Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	85 … 264 VAC; 120 … 372 VDC
Input voltage derating	–2.5 %/V (< 95 VAC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 0.48 A (240 VAC); ≤ 0.82 A (100 VAC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 120 ms (230 VAC); > 20 ms (100 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	23 … 28.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	2 A (24 VDC); 2.2 A (< +40 °C)
Nominal output power	48 W
Residual ripple	≤ 20 mV (peak-to-peak)
Overload behavior	Constant current
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x DC OK active signal output (24 VDC; 20 mA)
Efficiency/Power Losses	
Power loss P_l	≤ 1 W (230 VAC; no load); ≤ 6 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,max.}$	7 W (100 VAC / 24 VDC; 2 A)
Efficiency (typ.)	89 %
Fuse Protection	
Internal fuse	T 4 A / 250 VAC
Recommended backup fusing	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec.)	4.242 kVDC
Protection class/protection type	II / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	–3 %/K (> +50 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output/signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	45 x 90 x 107.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	210 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; 61010-2-201; EN 61204-3; EN 60335-1; UL 60950-1; UL 508; GL

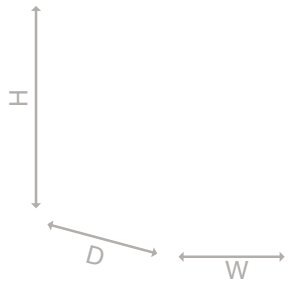
Switched-Mode Power Supply; Classic; 1-Phase; 24 VDC / 3.8 A
787 Series

Similar to picture



Switched-Mode Power Supply; Classic; 1-phase; Output voltage: 24 VDC; Output current: 3.8 A; NEC Class 2; DC OK signal

	Item No.	Pack. Unit
	787-1616/000-1000	1



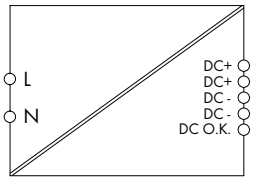
Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Bounce-free switching signal (DC O K)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 61010-1/ 61010-2-201/ UL 60950-1; PELV per EN 60204
- GL approval, also suitable for EMC 1 in conjunction with 787-980 Filter Module
- Limited Power Source (LPS) per NEC Class 2 (UL 1310 and UL 60950)

Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	85 … 264 VAC; 120 … 372 VDC
Input voltage derating	–2.5 %/V (< 95 VAC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 0.95 A (240 VAC); ≤ 1.73 A (100 VAC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 80 ms (230 VAC); > 15 ms (100 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	23 … 28.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	3.8 A (24 VDC)
Nominal output power	91.2 W
Residual ripple	≤ 20 mV (peak-to-peak)
Overload behavior	Constant current
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x DC OK active signal output (24 VDC; 20 mA)
Efficiency/Power Losses	
Power loss P_l	≤ 2.8 W (230 VAC; no load); ≤ 14 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,max.}$	20 W (100 VAC / 91 W)
Efficiency (typ.)	87 %
Fuse Protection	
Internal fuse	T 4 A / 250 VAC
Recommended backup fusing	Circuit breaker: 10 A, 16 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec.)	4.242 kVDC
Protection class/protection type	II / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	–3 %/K (> +50 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output/signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	52 x 90 x 119; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	384 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; 61010-2-201; EN 61204-3; EN 60335-1; UL 60950-1; UL 508; UL 1310; GL

Switched-Mode Power Supply; Classic; 1-Phase; 24 VDC / 4 A
787 Series

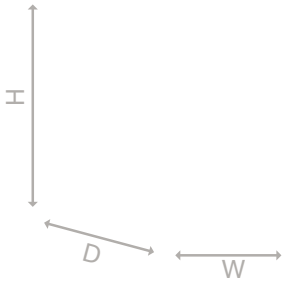
1

Similar to picture



Switched-Mode Power Supply; Classic; 1-phase; Output voltage: 24 VDC; Output current: 4 A; DC OK signal

	Item No.	Pack. Unit
	787-1616	1
with coated PCBs	787-1616/000-070	1

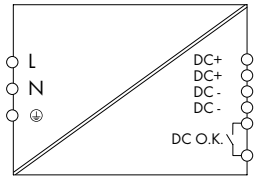


Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Bounce-free switching signal (DC O K)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 61010-1/ 61010-2-201/ UL 60950-1; PELV per EN 60204
- GL approval

Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	85 … 264 VAC; 120 … 372 VDC
Input voltage derating	–2.5 %/V (< 95 VAC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 0.98 A (240 VAC); ≤ 1.82 A (100 VAC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 80 ms (230 VAC); > 15 ms (100 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	23 … 28.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	4 A (24 VDC); 4.2 A (< +40 °C)
Nominal output power	96 W
Residual ripple	≤ 20 mV (peak-to-peak)
Overload behavior	Constant current
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x DC OK active signal output (24 VDC; 20 mA)
Efficiency/Power Losses	
Power loss P_l	≤ 1 W (230 VAC; no load); ≤ 12.4 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,max.}$	15 W (100 VAC / 24 VDC; 4 A)
Efficiency (typ.)	89 %
Fuse Protection	
Internal fuse	T 4 A / 250 VAC
Recommended backup fusing	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec.)	4.242 kVDC
Protection class/protection type	II / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	–3 %/K (> +50 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output/signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	52 x 90 x 119.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	384 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; 61010-2-201; EN 61204-3; EN 60335-1; UL 60950-1; UL 508; GL

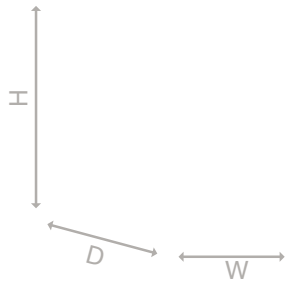
Switched-Mode Power Supply; Classic; 1-Phase; 24 VDC / 5 A
787 Series

Similar to picture



Switched-Mode Power Supply; Classic; 1-phase; Output voltage: 24 VDC; Output current: 5 A; TopBoost; DC OK signal

	Item No.	Pack. Unit
	787-1622	1



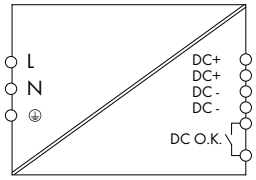
Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Bounce-free switching signal (DC O K)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 61010-1/ 61010-2-201/ UL 60950-1; PELV per EN 60204
- GL approval, also suitable for EMC 1 in conjunction with 787-980 Filter Module
- Integrated TopBoost enables secondary-side protection via miniature circuit breakers.

Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	85 … 264 VAC; 120 … 372 VDC
Input voltage derating	–2.5 %/V (< 97 VAC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 1.24 A (230 VAC); ≤ 2.3 A (100 VAC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 80 ms (230 VAC); > 10 ms (100 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	23 … 28.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	5 A (24 VDC)
Nominal output power	210 W
Residual ripple	≤ 30 mV (peak-to-peak)
Overload behavior	Constant current
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x DC OK contact (make contact; max. 30 VAC/DC; 1 A)
Efficiency/Power Losses	
Power loss P_l	≤ 1.2 W (230 VAC; no load); ≤ 14.6 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,max.}$	19.4 W (100 VAC / 24 VDC; 5 A)
Efficiency (typ.)	89 %
Fuse Protection	
Internal fuse	T 4 A / 250 VAC
Recommended backup fusing	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-GND/sec.-GND/pri.-sec.)	2.2 kVDC / 0.7 kVDC / 4.242 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	–5 %/K (> +60 °C; 196… 264 VAC); –2.5 %/K (> +50 °C; 85 … 195 VAC)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output/signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	42 x 127 x 137.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	385 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; 61010-2-201; EN 61204-3; EN 60335-1; UL 60950-1; UL 508; GL

Switched-Mode Power Supply; Classic; 1-Phase; 24 VDC / 10 A
787 Series

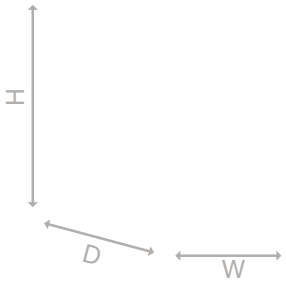
1

Similar to picture



Switched-Mode Power Supply; Classic; 1-phase; Output voltage: 24 VDC; Output current: 10 A; TopBoost; DC OK signal

	Item No.	Pack. Unit
	787-1632	1
with coated PCBs	787-1632/000-070	1

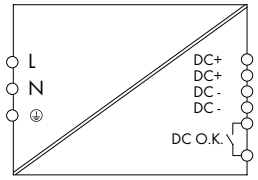


Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Bounce-free switching signal (DC O K)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 61010-1/ 61010-2-201/ UL 60950-1; PELV per EN 60204
- GL approval
- Integrated TopBoost enables secondary-side protection via miniature circuit breakers
  Input voltage 90 … 372 VDC possible at operating temperatures of 0 … +70 °C

Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	85 … 264 VAC; 100 … 372 VDC
Input voltage derating	-2.5 %/V (< AC 100 V); -1 %/V (< DC 130 V)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 1.25 A (230 VAC); ≤ 2.74 A (100 VAC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 17 ms (230 VAC); > 15 ms (100 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	23 … 28.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	10 A (24 VDC)
Nominal output power	240 W
Residual ripple	≤ 50 mV (peak-to-peak)
Overload behavior	Constant current
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x DC OK contact (make contact; max. 30 VAC/DC; 1 A)
Efficiency/Power Losses	
Power loss P_l	≤ 6.6 W (230 VAC; no load); ≤ 24.4 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,max.}$	31.3 W (100 VAC / 24 VDC; 10 A)
Efficiency (typ.)	91 %
Fuse Protection	
Internal fuse	T 6.3 A / 250 VAC
Recommended backup fusing	Circuit breaker: 10 A, 16 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-GND/sec.-GND/pri.-sec.)	2.2 kVDC / 0.7 kVDC / 4.242 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	–5 %/K (> +60 °C; 196… 264 VAC); –2.5 %/K (> +50 °C; 85 … 195 VAC)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output/signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	55 x 127 x 172; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	1140 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; 61010-2-201; EN 61204-3; UL 60950-1; UL 508; GL

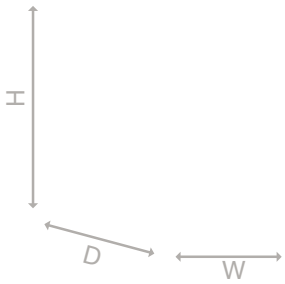
Switched-Mode Power Supply; Classic; 1-Phase; 24 VDC / 20 A
787 Series

Similar to picture



Switched-Mode Power Supply; Classic; 1-phase; Output voltage: 24 VDC; Output current: 20 A; TopBoost; DC OK signal

	Item No.	Pack. Unit
	787-1634	1



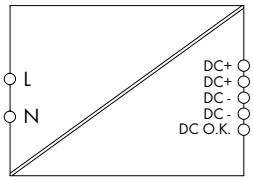
Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Bounce-free switching signal (DC O K)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 61010-1/ 61010-2-201/ UL 60950-1; PELV per EN 60204
- GL approval
- Integrated TopBoost enables secondary-side protection via miniature circuit breakers.

Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	85 … 264 VAC; 120 … 372 VDC
Input voltage derating	−1.8 %/V (< 105 VAC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 2.23 A (230 VAC); ≤ 5.56 A (100 VAC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (230 VAC); > 8 ms (100 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	23 … 28.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	20 A (24 VDC)
Nominal output power	480 W
Residual ripple	≤ 70 mV (peak-to-peak)
Overload behavior	Constant current
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x DC OK contact (make contact; max. 30 VAC/DC; 1 A)
Efficiency/Power Losses	
Power loss P_l	≤ 7.2 W (230 VAC; no load); ≤ 42.4 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,max.}$	68.3 W (100 VAC / 24 VDC; 20 A)
Efficiency (typ.)	92 %
Fuse Protection	
Internal fuse	T 10 A / 250 VAC
Recommended backup fusing	Circuit breaker: 10 A, 16 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-GND/sec.-GND/pri.-sec.)	2.2 kVDC / 0.7 kVDC / 4.242 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	−25 … +70 °C (device starts at −40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	−5 %/K (> +60 °C; 196… 264 VAC); −2.5 %/K (> +50 °C; 85 … 195 VAC)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input/signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	95 x 127 x 170; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	1600 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; 61010-2-201; EN 61204-3; UL 60950-1; UL 508; GL

Switched-Mode Power Supply; Classic; 1-Phase; 48 VDC / 2 A
787 Series

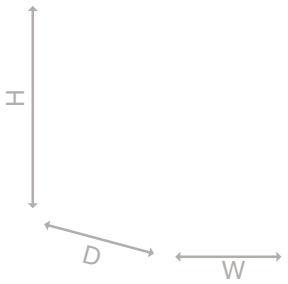
1

Similar to pictured device



Switched-Mode Power Supply; Classic; 1-phase; Output voltage: 48 VDC; Output current: 2 A; DC OK signal

Item No.	Pack. Unit
787-1623	1

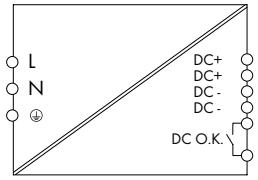


Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Bounce-free switching signal (DC O K)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 61010-1/ 61010-2-201/ UL 60950-1; PELV per EN 60204
- GL approval

Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	85 … 264 VAC; 120 … 372 VDC
Input voltage derating	–2.5 %/V (< 95 VAC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 0.97 A (240 VAC); ≤ 1.84 A (100 VAC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 80 ms (230 VAC); > 15 ms (100 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	48 VDC (SELV) / ≤ 1 %
Output voltage range	40 … 53 VDC (adjustable)
Nominal output current $I_{o\,nom}$	2 A (48 VDC); 2.1 A (< +40 °C)
Nominal output power	96 W
Residual ripple	≤ 20 mV (peak-to-peak)
Overload behavior	Constant current
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x DC OK active signal output (48 VDC; 10 mA)
Efficiency/Power Losses	
Power loss P_l	≤ 1 W (230 VAC; no load); ≤ 16.2 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,max.}$	19.8 W (100 VAC / 48 VDC; 2 A)
Efficiency (typ.)	86 %
Fuse Protection	
Internal fuse	T 4 A / 250 VAC
Recommended backup fusing	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec.)	4.242 kVDC
Protection class/protection type	II / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	–3 %/K (> +50 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output/signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	52 x 90 x 119; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	590 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; 61010-2-201; EN 61204-3; EN 60335-1; UL 60950-1; UL 508; GL

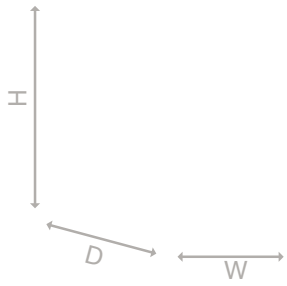
Switched-Mode Power Supply; Classic; 1-Phase; 48 VDC / 5 A
787 Series

Similar to pictured device



Switched-Mode Power Supply; Classic; 1-phase; Output voltage: 48 VDC; Output current: 5 A; TopBoost; DC OK signal

	Item No.	Pack. Unit
	787-1633	1



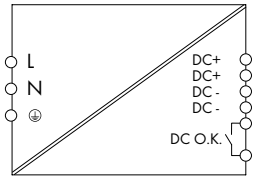
Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Bounce-free switching signal (DC O K)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 61010-1/ 61010-2-201/ UL 60950-1; PELV per EN 60204
- GL approval, also suitable for EMC 1 in conjunction with 787-980 Filter Module
- Integrated TopBoost enables secondary-side protection via miniature circuit breakers. Input voltage 100 ... 372 VDC is possible.

Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 ... 372 VDC
Input voltage derating	–2.5 %/V (< 100 VAC)
Nominal mains frequency range	44 ... 66 Hz; 0 Hz
Input current I_i	≤ 1.25 A (230 VAC); ≤ 2.74 A (100 VAC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 21 ms (230 VAC); > 21 ms (100 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	48 VDC (SELV) / ≤ 1 %
Output voltage range	40 ... 56 VDC (adjustable)
Nominal output current $I_{o\,nom}$	5 A (48 VDC)
Nominal output power	240 W
Residual ripple	≤ 30 mV (peak-to-peak)
Overload behavior	Constant current
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x DC OK contact (make contact; max. 30 VAC/DC; 1 A)
Efficiency/Power Losses	
Power loss P_l	≤ 7 W (230 VAC; no load); ≤ 40.8 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,max.}$	26.5 W (100 VAC / 48 VDC; 5 A)
Efficiency (typ.)	≥2 %
Fuse Protection	
Internal fuse	T 6.3 A / 250 VAC
Recommended backup fusing	Circuit breaker: 10 A, 16 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-GND/sec.-GND/pri.-sec.)	2.2 kVDC / 0.7 kVDC / 4.242 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 ... +70 °C (device starts at –40 °C, type-tested)
Relative humidity	5 ... 96 % (no condensation permissible)
Derating	–5 %/K (> +60 °C; 196... 264 VAC); –2.5 %/K (> +50 °C; 85 ... 195 VAC)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output/signaling (solid/fine-stranded/AWG)	0.08 ... 2.5 mm² / 0.08 ... 2.5 mm² / 28 ... 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	55 x 127 x 172; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	930 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; 61010-2-201; EN 61204-3; UL 60950-1; UL 508; GL

Switched-Mode Power Supply; Classic; 1-Phase; 48 VDC / 10 A
787 Series

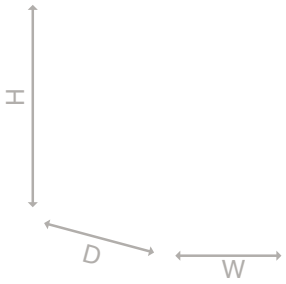
1

Similar to pictured device



Switched-Mode Power Supply; Classic; 1-phase; Output voltage: 48 VDC; Output current: 10 A; TopBoost; DC OK signal

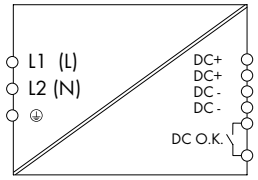
	Item No.	Pack. Unit
	787-1635	1
with coated PCBs	**787-1635/000-070**	1



Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Bounce-free switching signal (DC O K)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 61010-1/ 61010-2-201/ UL 60950-1; PELV per EN 60204
- GL approval
- Integrated TopBoost enables secondary-side protection via miniature circuit breakers.

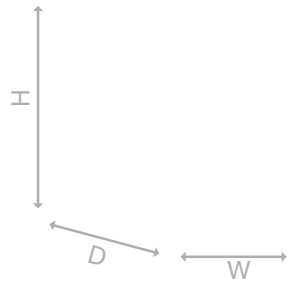
Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	85 … 264 VAC; 120 … 372 VDC
Input voltage derating	–2.5 %/V (< 100 VAC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 2.23 A (230 VAC); ≤ 5.56 A (100 VAC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (230 VAC); > 20 ms (100 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	48 VDC (SELV) / ≤ 1 %
Output voltage range	40 … 56 VDC (adjustable)
Nominal output current $I_{o\,nom}$	10 A (48 VDC)
Nominal output power	480 W
Residual ripple	≤ 80 mV (peak-to-peak)
Overload behavior	Constant current
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x DC OK contact (make contact; max. 30 VAC/DC; 1 A)
Efficiency/Power Losses	
Power loss P_l	≤ 11.7 W (230 VAC; no load); ≤ 36.3 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,max.}$	64.9 W (100 VAC / 48 VDC; 10 A)
Efficiency (typ.)	93 %
Fuse Protection	
Internal fuse	T 10 A / 250 VAC
Recommended backup fusing	Circuit breaker: 10 A, 16 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-GND/sec.-GND/pri.-sec.)	2.2 kVDC / 0.7 kVDC / 4.242 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	–5 %/K (> +60 °C; 196… 264 VAC); –2.5 %/K (> +50 °C; 85 … 195 VAC)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input/signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	95 x 127 x 170; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	1600 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; 61010-2-201; EN 61204-3; UL 60950-1; UL 508; GL

Switched-Mode Power Supply; Classic; 1-/2-Phase; 24 VDC / 5 A
787 Series



Switched-Mode Power Supply; Classic; 2-phase; Output voltage: 24 VDC; Output current: 5 A; TopBoost; DC OK signal

	Item No.	Pack. Unit
	787-1628	1

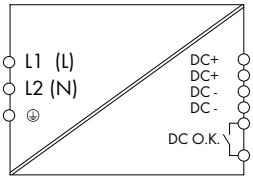


Features:
- Switched-mode power supply with TopBoost, enabling secondary-side protection via circuit breakers
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Contact (DC O K)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 61010-1/ 61010-2-201/ UL 60950-1; PELV per EN 60204

Input	
Nominal input voltage $U_{i\,nom}$	(1 / 2) x 200 … 500 VAC
Input voltage range	(1 / 2) x 180 … 550 VAC; 254 … 780 VDC
Input voltage derating	–0.5 %/V (< 200 VAC); –0.4 %/V (< 280 VDC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 1.25 A (200 VAC); ≤ 0.67 A (500 VAC)
Inrush current	≤ 30 A (NTC)
Power factor	≥ 0.52
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 126 ms (500 VAC); > 15 ms (200 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	23 … 28.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	5 A (24 VDC)
Nominal output power	120 W
Residual ripple	≤ 30 mV (peak-to-peak)
Overload behavior	Constant current
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x DC OK contact (make contact; max. 30 VAC/DC; 1 A)
Efficiency/Power Losses	
Power loss P_l	≤ 0.94 W (no load); ≤ 16.36 W (230 VAC; nominal load); ≤ 14.55 W (400 VAC; nominal load)
Power loss (max.) $P_{l\,max.}$	18.2 W (200 VAC / 24 VDC; 5 A)
Efficiency (typ.)	89 %
Fuse Protection	
Internal fuse	T 3.15 A / 500 VAC
Recommended backup fusing	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-GND/sec.-GND/pri.-sec.)	2.2 kVDC / 0.7 kVDC / 4.242 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	–2.5 %/K (> +55 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output/signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	42 x 127 x 143.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	600 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; 61010-2-201; EN 61204-3; UL 60950-1; UL 508; DNV GL

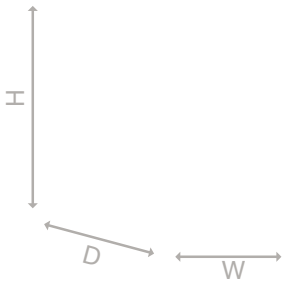
Switched-Mode Power Supply; Classic; 1-/2-Phase; 24 VDC / 10 A
787 Series

1



Switched-Mode Power Supply; Classic; 2-phase; Output voltage: 24 VDC; Output current: 10 A; TopBoost; DC OK signal

	Item No.	Pack. Unit
	787-1638	1

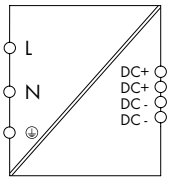


Features:
- Switched-mode power supply with TopBoost, enabling secondary-side protection via circuit breakers
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Contact (DC O K)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 61010-1/ 61010-2-201/ UL 60950-1; PELV per EN 60204

Input	
Nominal input voltage $U_{i\,nom}$	(1 / 2) x 200 … 500 VAC
Input voltage range	(1 / 2) x 180 … 550 VAC; 254 … 780 VDC
Input voltage derating	−0.5 %/V (< 200 VAC); −0.4 %/V (< 280 VDC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 1.98 A (230 VAC); ≤ 1.36 A (230 VAC)
Inrush current	≤ 30 A (NTC)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 78 ms (400 VAC); > 20 ms (200 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	23 … 28.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	10 A (24 VDC)
Nominal output power	240 W
Residual ripple	≤ 30 mV (peak-to-peak)
Overload behavior	Constant current
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x DC OK contact (make contact; max. 30 VAC/DC; 1 A)
Efficiency/Power Losses	
Power loss P_l	≤ 1.3 W (no load); ≤ 27.8 W (230 VAC; nominal load); ≤ 20.3 W (400 VAC; nominal load)
Power loss (max.) $P_{l\,max.}$	27.8 W (230 VAC / 24 VDC; 10 A)
Efficiency (typ.)	89 % (230 VAC); ≥ 92.5 % (400 VAC)
Fuse Protection	
Internal fuse	T 6.3 A / 500 VAC
Recommended backup fusing	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-GND/sec.-GND/pri.-sec.)	2.2 kVDC / 0.7 kVDC / 4.242 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	−25 … +70 °C (device starts at −40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	−2.5 %/K (> +55 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output/signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	55 x 127 x 146.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	830 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; 61010-2-201; EN 61204-3; UL 60950-1; UL 508; DNV GL

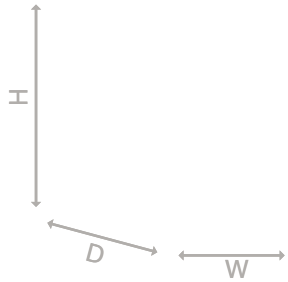
Switched-Mode Power Supply; Eco; 1-Phase; 12 VDC / 2 A
787 Series

Similar to picture



Switched-mode power supply; Eco; 1-phase; 12 VDC output voltage; 2 A output current; DC-OK LED

Item No.	Pack. Unit
787-1701	1

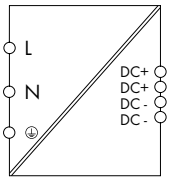


Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 62368-1 and EN 60335-1; PELV per EN 60204
- DIN-35 rail mountable in different positions
- Direct installation on mounting plate via cable grip

Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	90 … 264 VAC; 125 … 375 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 0.7 A (100 VAC)
Inrush current	≤ 18 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 10 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	12 VDC (SELV) / ≤ 1 %
Output voltage range	10 … 14 VDC (adjustable)
Nominal output current $I_{o\,nom}$	2 A (12 VDC; 110 … 240 VAC); 1.6 A (12 VDC; 100 … 240 VAC)
Nominal output power	24 W
Residual ripple	≤ 150 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.05 … 1.4 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit
Signaling and Communication	
Signaling	1 x DC OK LED (green)
Efficiency/Power Losses	
Efficiency	≥ 80 % (230 VAC; 2 ADC)
Fuse Protection	
Internal fuse	F 1 A / 250 VAC
Recommended backup fusing	Circuit breaker: B6, B10
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-GND/sec.-GND/pri.-sec.)	2.2 kVDC / 0.7 kVDC / 4.242 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes, for two devices of the same type
MTBF	> 300.000 h (per IEC 61709)
Surrounding air temperature (operation)	–20 … +60 °C
Relative humidity	10 … 95 % (no condensation permissible)
Derating	–4 %/K (> +45 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	30 x 90 x 99; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail; Screw mounting
Weight	250 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61204-3; EN 60335-1; EN 61558-2-6; EN 62368-1

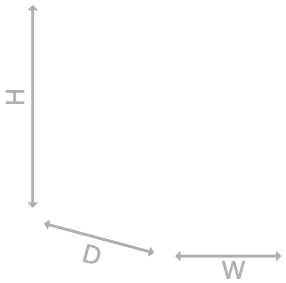
Switched-Mode Power Supply; Eco; 1-Phase; 12 VDC / 4 A
787 Series

Similar to picture



Switched-mode power supply; Eco; 1-phase; 12 VDC output voltage; 4 A output current; DC-OK LED

	Item No.	Pack. Unit
	787-1711	1

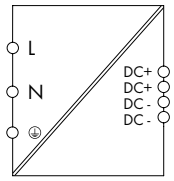


Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 62368-1 and EN 60335-1; PELV per EN 60204
- DIN-35 rail mountable in different positions
- Direct installation on mounting plate via cable grip

Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	90 … 264 VAC; 125 … 375 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 1.8 A (100 VAC)
Inrush current	≤ 18 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 10 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	12 VDC (SELV) / ≤ 1 %
Output voltage range	10 … 14 VDC (adjustable)
Nominal output current $I_{o\,nom}$	4 A (12 VDC; 110 … 240 VAC); 3.2 A (12 VDC; 100 … 240 VAC)
Nominal output power	48 W
Residual ripple	≤ 150 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.05 … 1.4 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit
Signaling and Communication	
Signaling	1 x DC OK LED (green)
Efficiency/Power Losses	
Efficiency	≥ 80 % (230 VAC; 4 ADC)
Fuse Protection	
Internal fuse	F 2 A / 250 VAC
Recommended backup fusing	Circuit breaker: B6, B10
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-GND/sec.-GND/pri.-sec.)	2.2 kVDC / 0.7 kVDC / 4.242 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes, for two devices of the same type
MTBF	> 300.000 h (per IEC 61709)
Surrounding air temperature (operation)	–20 … +60 °C
Relative humidity	10 … 95 % (no condensation permissible)
Derating	–4 %/K (> +45 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	40 x 90 x 99; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail; Screw mounting
Weight	250 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61204-3; EN 60335-1; EN 61558-2-6; EN 62368-1

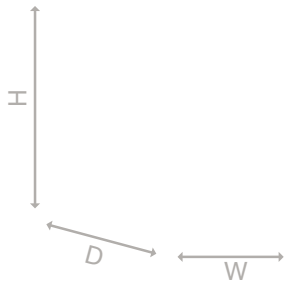
Switched-Mode Power Supply; Eco; 1-Phase; 12 VDC / 8 A
787 Series

Similar to picture



Primär getaktete Stromversorgung; Eco; 1-phasig; Ausgangsspannung DC 12 V; Ausgangsstrom 8 A; DC-OK LED

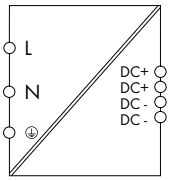
	Item No.	Pack. Unit
	787-1721	1



Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 62368-1 and EN 60335-1; PELV per EN 60204
- DIN-35 rail mountable in different positions
- Direct installation on mounting plate via cable grip

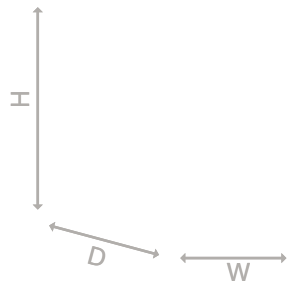
Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	90 … 264 VAC; 125 … 375 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 3 A (100 VAC)
Inrush current	≤ 18 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 10 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	12 VDC (SELV) / ≤ 1 %
Output voltage range	10 … 14 VDC (adjustable)
Nominal output current $I_{o\,nom}$	8 A (12 VDC; 110 … 240 VAC); 6.4 A (12 VDC; 100 … 240 VAC)
Nominal output power	96 W
Residual ripple	≤ 150 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.05 … 1.4 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit
Signaling and Communication	
Signaling	1 x DC OK LED (green)
Efficiency/Power Losses	
Efficiency	≥ 80 % (230 VAC; 8 ADC)
Fuse Protection	
Internal fuse	F 3.15 A / 250 VAC
Recommended backup fusing	Circuit breaker: B6, B10
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-GND/sec.-GND/pri.-sec.)	2.2 kVDC / 0.7 kVDC / 4.242 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes, for two devices of the same type
MTBF	> 300.000 h (per IEC 61709)
Surrounding air temperature (operation)	–20 … +60 °C
Relative humidity	10 … 95 % (no condensation permissible)
Derating	–3 %/K (> +40 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	60 x 130 x 99; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail; Screw mounting
Weight	520 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61204-3; EN 60335-1; EN 61558-2-6; EN 62368-1

Switched-Mode Power Supply; Eco; 1-Phase; 24 VDC / 1.25 A
787 Series



Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 1.25 A output current; DC-OK LED

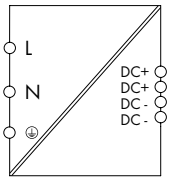
Item No.	Pack. Unit
787-1702	1



Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 62368-1; UL 60950-1 and EN 60335-1; PELV per EN 60204
- DIN-35 rail mountable in different positions
- Direct installation on mounting plate via cable grip

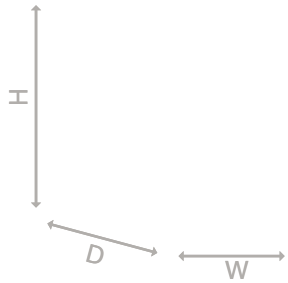
Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	90 … 264 VAC; 125 … 375 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 0.3 A (230 VAC); ≤ 0.6 A (115 VAC)
Inrush current	≤ 18 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 10 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	22 … 26 VDC (adjustable)
Nominal output current $I_{o\,nom}$	1.25 A (24 VDC; 110 … 240 VAC); 1 A (24 VDC; 100 … 240 VAC)
Nominal output power	30 W
Residual ripple	≤ 200 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.05 … 1.4 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit
Signaling and Communication	
Signaling	1 x DC OK LED (green)
Efficiency/Power Losses	
Efficiency	≥ 87 % (230 VAC; 1.25 ADC)
Fuse Protection	
Internal fuse	F 1 A / 250 VAC
Recommended backup fusing	Circuit breaker: B6, B10
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-GND/sec.-GND/pri.-sec.)	2.2 kVDC / 0.7 kVDC / 4.242 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes, for two devices of the same type
MTBF	> 300.000 h (per IEC 61709)
Surrounding air temperature (operation)	–20 … +60 °C
Relative humidity	10 … 95 % (no condensation permissible)
Derating	–4 %/K (> +45 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	30 x 90 x 99; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail; Screw mounting
Weight	300 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61204-3; EN 60335-1; EN 62368-1; UL 60950-1; UL 508

Switched-Mode Power Supply; Eco; 1-Phase; 24 VDC / 2.5 A
787 Series



Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 2.5 A output current; DC-OK LED

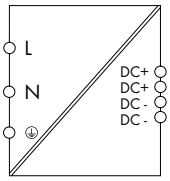
Item No.	Pack. Unit
787-1712	1



Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 62368-1; UL 60950-1 and EN 60335-1; PELV per EN 60204
- DIN-35 rail mountable in different positions
- Direct installation on mounting plate via cable grip

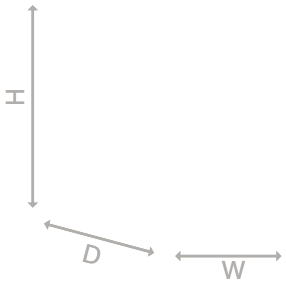
Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	90 … 264 VAC; 125 … 375 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 0.6 A (230 VAC); ≤ 1.2 A (115 VAC)
Inrush current	≤ 18 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 10 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	22 … 26 VDC (adjustable)
Nominal output current $I_{o\,nom}$	2.5 A (24 VDC; 110 … 240 VAC); 2 A (24 VDC; 100 … 240 VAC)
Nominal output power	60 W (max.)
Residual ripple	≤ 200 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.05 … 1.4 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit
Signaling and Communication	
Signaling	1 x DC OK LED (green)
Efficiency/Power Losses	
Efficiency	≥ 88 % (230 VAC; 2.5 ADC)
Fuse Protection	
Internal fuse	F 2 A / 250 VAC
Recommended backup fusing	Circuit breaker: B6, B10
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-GND/sec.-GND/pri.-sec.)	2.2 kVDC / 0.7 kVDC / 4.242 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes, for two devices of the same type
MTBF	> 300.000 h (per IEC 61709)
Surrounding air temperature (operation)	–20 … +60 °C
Relative humidity	10 … 95 % (no condensation permissible)
Derating	–4 %/K (> +45 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	40 x 90 x 99; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail; Screw mounting
Weight	300 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61204-3; EN 60335-1; EN 62368-1; UL 60950-1; UL 508

Switched-Mode Power Supply; Eco; 1-Phase; 24 VDC / 2.5 A
787 Series



Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 2.5 A output current; DC-OK LED

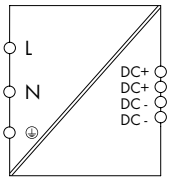
Item No.	Pack. Unit
787-712	1



Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 62368-1; UL 60950-1; PELV per EN 60204

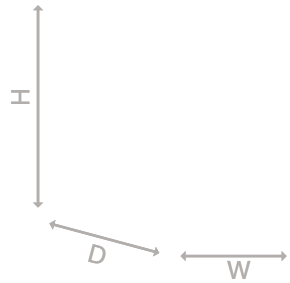
Input	
Nominal input voltage $U_{i\,nom}$	1 x 110 … 240 VAC
Input voltage range	85 … 264 VAC; 90 … 373 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 0.7 A (230 VAC); ≤ 1.2 A (115 VAC)
Inrush current	≤ 30 A
Power factor	≥ 0.5 (230 VAC)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 20 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	22 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	2.5 A (24 VDC)
Nominal output power	60 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.15 … 1.4 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x Overload LED (red)
Efficiency/Power Losses	
Power loss P_l	≤ 8.3 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,max.}$	11.5 W (110 VAC / 24 VDC; 2.75 A)
Efficiency (typ.)	86 % (230 VAC)
Fuse Protection	
Internal fuse	F 2.5 A / 250 VAC
Recommended backup fusing	Circuit breaker: 10 A, 16 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-GND/sec.-GND/pri.-sec.)	2.2 kVDC / 0.7 kVDC / 4.242 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	480.000 h (per IEC 61709)
Surrounding air temperature (operation)	−10 … +70 °C
Relative humidity	≤ 95 % (no condensation permissible)
Derating	−3.3 %/K (> +50 °C; 230 VAC)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.08 … 4 mm² / 0.08 … 4 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	50 x 92 x 136; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	470 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 62368-1; EN 61204-3; cURus 60950-1; cULus 508; ANSI/ISA 12.12.01 (Class I Div. 2); ATEX; IEC Ex

Switched-Mode Power Supply; Eco; 1-Phase; 24 VDC / 5 A
787 Series



Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 5 A output current; DC-OK LED

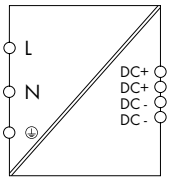
	Item No.	Pack. Unit
	787-722	1



Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 62368-1; UL 60950-1; PELV per EN 60204

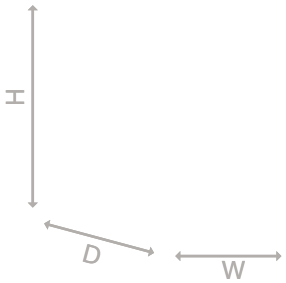
Input	
Nominal input voltage $U_{i\,nom}$	1 x 110 … 240 VAC
Input voltage range	85 … 264 VAC; 90 … 373 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 1 A (230 VAC); ≤ 2 A (115 VAC)
Inrush current	≤ 30 A
Power factor	≥ 0.94 (230 VAC); ≥ 0.98 (115 VAC)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	22 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	5 A (24 VDC)
Nominal output power	120 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.15 … 1.4 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x Overload LED (red)
Efficiency/Power Losses	
Power loss P_l	≤ 19.5 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,max.}$	23.5 W (110 VAC / 24 VDC; 5.5 A)
Efficiency (typ.)	86 % (230 VAC)
Fuse Protection	
Internal fuse	F 3.15 A / 250 VAC
Recommended backup fusing	Circuit breaker: 10 A, 16 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-GND/sec.-GND/pri.-sec.)	2.2 kVDC / 0.7 kVDC / 4.242 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	480.000 h (per IEC 61709)
Surrounding air temperature (operation)	−10 … +60 °C
Relative humidity	≤ 95 % (no condensation permissible)
Derating	−5.33 %/K (> +45 °C; 230 VAC)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.08 … 4 mm² / 0.08 … 4 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	75 x 92 x 136; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	850 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 62368-1; EN 61204-3; cURus 60950-1; cULus 508; ANSI/ISA 12.12.01 (Class I Div. 2); ATEX; IEC Ex

Switched-Mode Power Supply; Eco; 1-Phase; 24 VDC / 5 A
787 Series



Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 5 A output current; DC-OK LED

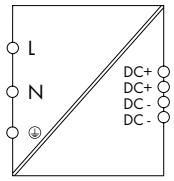
Item No.	Pack. Unit
787-1722	1



Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 62368-1; UL 60950-1 and EN 60335-1; PELV per EN 60204
- DIN-35 rail mountable in different positions
- Direct installation on mounting plate via cable grip

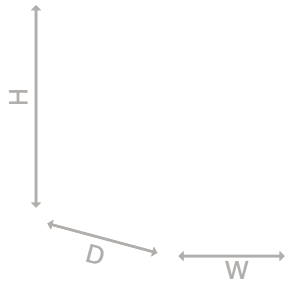
Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	90 … 264 VAC; 125 … 375 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 1 A (230 VAC); ≤ 2 A (115 VAC)
Inrush current	≤ 18 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 10 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	22 … 26 VDC (adjustable)
Nominal output current $I_{o\,nom}$	5 A (24 VDC; 110 … 240 VAC); 4 A (24 VDC; 100 … 240 VAC)
Nominal output power	120 W
Residual ripple	≤ 200 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.05 … 1.4 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit
Signaling and Communication	
Signaling	1 x DC OK LED (green)
Efficiency/Power Losses	
Efficiency (typ.)	88 % (230 VAC; 5 ADC)
Fuse Protection	
Internal fuse	F 2.5 A / 250 VAC
Recommended backup fusing	Circuit breaker: B6, B10
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-GND/sec.-GND/pri.-sec.)	2.2 kVDC / 0.7 kVDC / 4.242 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes, for two devices of the same type
MTBF	> 300.000 h (per IEC 61709)
Surrounding air temperature (operation)	–20 … +60 °C
Relative humidity	10 … 95 % (no condensation permissible)
Derating	–3 %/K (> +45 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	60 x 130 x 99; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail; Screw mounting
Weight	550 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61204-3; EN 60335-1; EN 62368-1; UL 60950-1; UL 508

Switched-Mode Power Supply; Eco; 1-Phase; 24 VDC / 10 A
787 Series



Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 10 A output current; DC-OK LED

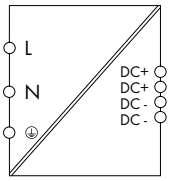
Item No.	Pack. Unit
787-1732	1



Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 62368-1; UL 60950-1 and EN 60335-1; PELV per EN 60204
- DIN-35 rail mountable in different positions
- Direct installation on mounting plate via cable grip

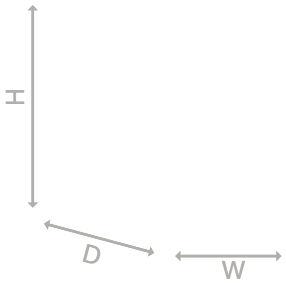
Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	90 … 264 VAC; 125 … 375 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 2 A (230 VAC); ≤ 4 A (115 VAC)
Inrush current	≤ 18 A
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 10 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	22 … 26 VDC (adjustable)
Nominal output current $I_{o\,nom}$	10 A (24 VDC; 110 … 240 VAC); 8 A (24 VDC; 100 … 240 VAC)
Nominal output power	240 W
Residual ripple	≤ 200 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.05 … 1.4 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit
Signaling and Communication	
Signaling	1 x DC OK LED (green)
Efficiency/Power Losses	
Efficiency (typ.)	91 % (230 VAC; 10 ADC)
Fuse Protection	
Internal fuse	F 3.15 A / 250 VAC
Recommended backup fusing	Circuit breaker: B6, B10
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-GND/sec.-GND/pri.-sec.)	2.2 kVDC / 0.7 kVDC / 4.242 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes, for two devices of the same type
MTBF	> 300.000 h (per IEC 61709)
Surrounding air temperature (operation)	–20 … +60 °C
Relative humidity	10 … 95 % (no condensation permissible)
Derating	–4 %/K (> +45 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	70 x 165 x 99; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail; Screw mounting
Weight	840 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61204-3; EN 60335-1; EN 62368-1; UL 60950-1; UL 508

Switched-Mode Power Supply; Eco; 1-Phase; 24 VDC / 10 A
787 Series



Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 10 A output current; DC-OK LED

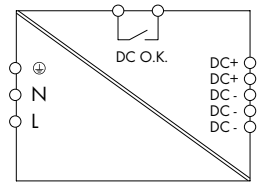
Item No.	Pack. Unit
787-732	1



Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 62368-1; UL 60950-1; PELV per EN 60204

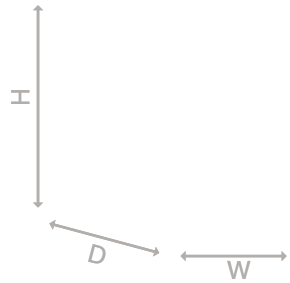
Input	
Nominal input voltage $U_{i\,nom}$	1 x 110 … 240 VAC
Input voltage range	85 … 264 VAC; 90 … 373 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 1.5 A (230 VAC); ≤ 3 A (115 VAC)
Inrush current	≤ 30 A
Power factor	≥ 0.94 (230 VAC); ≥ 0.98 (115 VAC)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	22 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	10 A (24 VDC)
Nominal output power	240 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.15 … 1.4 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x Overload LED (red)
Efficiency/Power Losses	
Power loss P_l	≤ 37.5 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,max.}$	53 W (110 VAC / 24 VDC; 11 A)
Efficiency (typ.)	86 % (230 VAC)
Fuse Protection	
Internal fuse	F 5 A / 250 VAC
Recommended backup fusing	Circuit breaker: 10 A, 16 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-GND/sec.-GND/pri.-sec.)	2.2 kVDC / 0.7 kVDC / 4.242 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	480.000 h (per IEC 61709)
Surrounding air temperature (operation)	−10 … +70 °C
Relative humidity	≤ 95 % (no condensation permissible)
Derating	−2.33 %/K (> +40 °C; 230 VAC)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.08 … 4 mm² / 0.08 … 4 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	110 x 92 x 136; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	1200 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 62368-1; EN 61204-3; cURus 60950-1; cULus 508; ANSI/ISA 12.12.01 (Class I Div. 2); ATEX; IEC Ex

Switched-Mode Power Supply; Eco; 1-Phase; 24 VDC / 20 A
787 Series



Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 20 A output current; DC OK contact

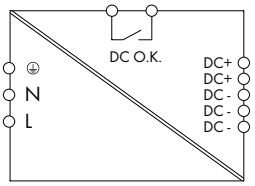
	Item No.	Pack. Unit
	787-734	1



Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 62368-1; UL 60950-1; PELV per EN 60204

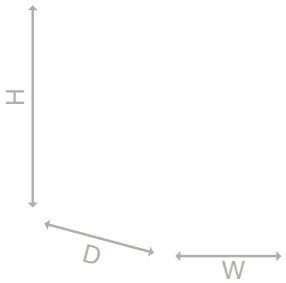
Input	
Nominal input voltage $U_{i\,nom}$	1 x 110 … 240 VAC
Input voltage range	85 … 264 VAC; 130 … 373 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 3 A (230 VAC); ≤ 6.3 A (115 VAC)
Inrush current	≤ 30 A
Power factor	≥ 0.94 (230 VAC); ≥ 0.98 (115 VAC)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	22 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	20 A (24 VDC)
Nominal output power	480 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.15 … 1.4 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x Overload LED (red); 1 x DC OK signal output (optocoupler as make contact; max. 31.2 V; 20 mA)
Efficiency/Power Losses	
Power loss P_l	≤ 65 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,max.}$	107 W (110 VAC / 24 VDC; 23 A)
Efficiency (typ.)	90 %
Fuse Protection	
Internal fuse	T 10 A / 250 VAC
Recommended backup fusing	Circuit breaker: 10 A, 16 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-GND/sec.-GND/sec.-signal/ pri.-sec.)	2.2 kVDC / 0.7 kVDC / 0.7 kVDC / 4.242 kVDC
Protection class/protection type Resistance to reverse feed	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 250.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	95 % (no condensation permissible)
Derating	See instruction manual
Pollution degree	2
Connection Data	
Connection technology	Push-in CAGE CLAMP®
Input/signaling (solid/fine-stranded/AWG)	0.5 … 6 mm² / 0.5 … 6 mm² / 20 … 10 AWG
Output (solid/fine-stranded/AWG)	1.5 … 16 mm² / 1.5 … 16 mm² / 16 … 6 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	115 x 136 x 144; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	2120 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 62368-1; EN 61204-3; EN 61000-6-2; EN 61000-6-3; UL 60950-1; UL 508

Switched-Mode Power Supply; Eco; 1-Phase; 24 VDC / 40 A
787 Series



Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 40 A output current; DC OK contact

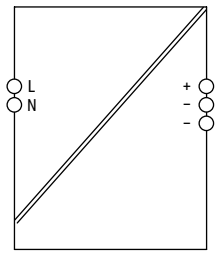
Item No.	Pack. Unit
787-736	1



Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 62368-1; UL 60950-1; PELV per EN 60204

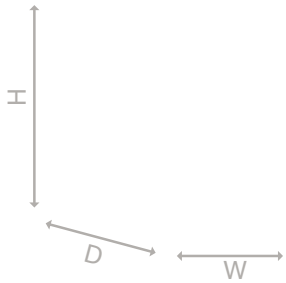
Input	
Nominal input voltage $U_{i\,nom}$	1 x 110 … 240 VAC
Input voltage range	90 … 264 VAC; 130 … 373 VDC
Input voltage derating	–2 %/V (< 100 VAC)
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 6 A (230 VAC); ≤ 12 A (115 VAC)
Inrush current	≤ 30 A
Power factor	≥ 0.94 (230 VAC); ≥ 0.98 (115 VAC)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 17 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	22 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	40 A (24 VDC)
Nominal output power	960 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.15 … 1.4 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x Overload LED (red); 1 x DC OK signal output (optocoupler as make contact; max. 31.2 V; 20 mA)
Efficiency/Power Losses	
Power loss P_l	≤ 107 W (230 VAC; nominal load)
Efficiency (typ.)	90 %
Fuse Protection	
Internal fuse	T 20 A / 250 VAC
Recommended backup fusing	Circuit breaker: 13 A, 16 A, 20 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-GND/sec.-GND/sec.-signal/ pri.-sec.)	2.2 kVDC / 0.7 kVDC / 0.7 kVDC / 4.242 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 250.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	≤ 95 % (no condensation permissible)
Derating	–2.66 %/K (> +55 °C)
Pollution degree	2
Connection Data	
Connection technology	Push-in CAGE CLAMP®
Input/signaling (solid/fine-stranded/AWG)	0.5 … 6 mm² / 0.5 … 6 mm² / 20 … 10 AWG
Output (solid/fine-stranded/AWG)	1.5 … 16 mm² / 1.5 … 16 mm² / 16 … 6 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	170 x 136 x 150; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	3500 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 62368-1; EN 61204-3; EN 61000-6-2; EN 61000-6-3; UL 60950-1; UL 508

Power Supply; Eco 2; 1-Phase; 24 VDC / 1.25 A
2687 Series



Power Supply; Eco 2; 1-phase;
Output voltage: 24 VDC; Output current: 1.25 A

Item No.	Pack. Unit
2687-2142	1

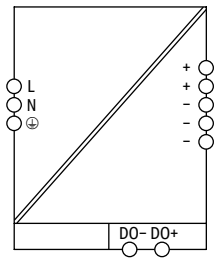


Features:
- Optical status indication
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Fast and tool-free termination via lever-actuated terminals with push-in connection technology
- Electrically isolated output voltage (SELV/PELV) per EN 61010/UL 61010
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	90 … 264 VAC
Nominal mains frequency range	50 … 60 Hz; 0 Hz
Input current I_i	≤ 0.3 A (230 VAC; nominal load); ≤ 0.6 A (100 VAC; nominal load)
Inrush current	≤ 10 A (after 1 ms)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 120 ms (230 VAC); ≥ 15 ms (110 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	22 … 29 VDC (adjustable)
Nominal output current $I_{o\,nom}$	1.25 A (24 VDC)
Nominal output power	30 W
Residual ripple	≤ 60 mV (peak-to-peak)
Overload behavior	Constant power up to 125 %; shutdown and automatic restart in the event of a short circuit
Signaling and Communication	
Signaling	Optical status indication (DC OK)
Efficiency/Power Losses	
Power loss P_l	≤ 0.2 W (no load); ≤ 4.3 W (nominal load)
Efficiency (typ.)	87.5 %
Fuse Protection	
Internal fuse	T 1 A / 250 VAC
Recommended backup fusing	16 A (for USA/Canada: 15 A)
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-GND/sec-GND/sec.-DO)	3.51 kVAC / 2.2 kVAC / 0.5 kVDC / 0.5 kVDC
Protection class/type	II / IP20 (per EN 60529)
Resistance to reverse feed	≤ 33 V
Overvoltage category	III (≤ 2000 m a. s.l.); II (> 2000 m a. s.l.)
Short-circuit-protected	Yes
Parallel/series operation	Yes/Yes
MTBF	> 1.000.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Operating altitude, max.	5000 m
Derating	See type label/manual
Pollution degree	2
Connection Data	
Connection technology	Push-in CAGE CLAMP®
Input/Output/Signaling (solid/fine-stranded/AWG)	0.2 … 4 mm² / 0.2 … 4 mm² / 24 … 12 AWG
Physical Data/Mechanical Data/Material Data	
Width x Height x Depth (mm)	25 x 100 x 90; Depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	170 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

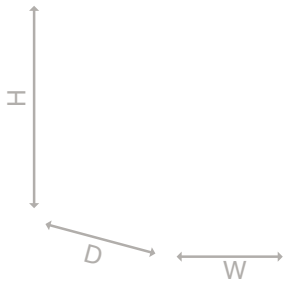
Power Supply; Eco 2; 1-Phase; 24 VDC / 5 A
2687 Series

1



Power Supply; Eco 2; 1-phase; Output voltage: 24 VDC; Output current: 5 A; DO; Communication interface

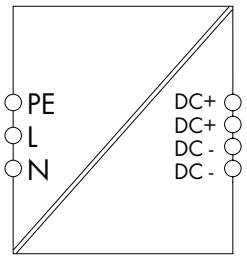
	Item No.	Pack. Unit
	2687-2144	1



Features:
- Signal output, optical status indication
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Fast and tool-free termination via lever-actuated terminals with push-in connection technology
- Electrically isolated output voltage (SELV/PELV) per EN 61010/UL 61010
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

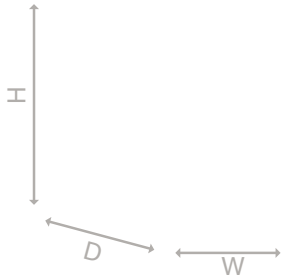
Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	90 … 264 VAC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 0.65 A (230 VAC; nominal load); ≤ 1.4 A (100 VAC; nominal load)
Inrush current	≤ 20 A (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	23 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	5 A (24 VDC)
Nominal output power	120 W
Residual ripple	≤ 75 mV (peak-to-peak)
Overload behavior	Constant current up to 105 %; shutdown and automatic restart in the event of a short circuit
Signaling and Communication	
Signaling	Optical status indication (Overload); Optical status indication (DC OK); Digital signal output (DO)
Efficiency/Power Losses	
Power loss P_l	≤ 3 W (no load); ≤ 12 W (nominal load)
Efficiency (typ.)	≤ 90 %
Fuse Protection	
Internal fuse	T 3.15 A / 250 VAC
Recommended backup fusing	16 A (for USA/Canada: 15 A)
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-GND/sec-GND/sec.-DO)	3.51 kVAC / 2.2 kVAC / 0.5 kVDC / 0.5 kVDC
Protection class/type	I / IP20 (per EN 60529)
Overvoltage category	III (≤ 2000 m a. s.l.); II (> 2000 m a. s.l.)
Short-circuit-protected	Yes
Parallel/series operation	Yes/Yes
MTBF	> 1.000.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Operating altitude, max.	5000 m
Derating	See type label
Pollution degree	2
Connection Data	
Connection technology	Push-in CAGE CLAMP®
Input/Output/Signaling (solid/fine-stranded/AWG)	0.2 … 4 mm² / 0.2 … 4 mm² / 24 … 12 AWG
Physical Data/Mechanical Data/Material Data	
Width x Height x Depth (mm)	38 x 100 x 130; Depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	650 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Power Supply; Compact; 1-Phase; 12 VDC / 2.5 A
787 Series



Switched-mode power supply; Compact; 1-phase; 12 VDC output voltage; 2.5 A output current; DC-OK LED

	Item No.	Pack. Unit
	787-1201	1

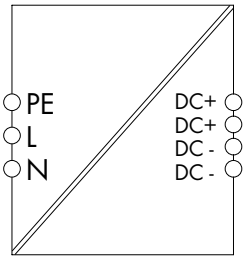


Features:
- Stepped profile, ideal for distribution boards/boxes
- Removable front panel and screw mounts for alternative installation in distribution boxes or devices
- Pluggable *picoMAX*® Connection Technology (tool-free)
- Electrically isolated output voltage (SELV) per EN 60335-1
- Suitable for both parallel and series operation

Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC; 140 … 340 VDC
Input voltage range	90 … 264 VAC; 125 … 375 VDC
Input voltage derating	–1.5 %/V (< 100 VAC)
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 0.6 A (100 VAC; 2.5 ADC)
Inrush current	≤ 30 A (NTC)
Power factor	≥ 0.5
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 100 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	12 VDC (SELV) / ≤ 1 %
Output voltage range	10 … 14 VDC (adjustable)
Nominal output current $I_{o\,nom}$	2.5 A
Nominal output power	30 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.05 … 1.35 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit or permanent overload
Signaling and Communication	
Signaling	1 x LED DC OK (green)
Efficiency/Power Losses	
Power loss P_l	≤ 0.5 W (230 VAC; no load)
Power loss (max.) $P_{l\,max.}$	4.5 W (100 VAC / 12 VDC; 2.5 A)
Efficiency (typ.)	88 % (230 VAC; nominal load); 87.5 % (110 VAC; nominal load);
Fuse Protection	
Internal fuse	T 1 A / 250 VAC
Recommended backup fusing	Circuit breaker: 6 A, 10 A or higher; Tripping characteristic: B
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-GND)	4.242 kVDC / 2.12 kVDC
Protection class/type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel/series operation	Yes, for devices of the same type/Yes, for two devices of the same type
MTBF	> 3.500.000 h (at 25 °C; per IEC 61709); > 800.000 h (at 40 °C; per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	20 … 90 % (no condensation permissible)
Derating	–0.8 %/K (> 45 °C)
Pollution degree	2
Connection Data	
Connection technology	Push-in CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.2 … 2.5 mm² / 0.2 … 2.5 mm² / 24 … 12 AWG
Physical Data/Mechanical Data/Material Data	
Width x Height x Depth (mm)	54 x 90 x 52.5; Depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail; Screw mount (back/side)
Weight	241 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61204-3; EN 60335-1; UL 508

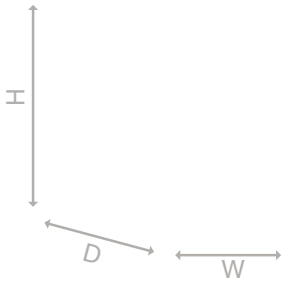
Switched-Mode Power Supply; Compact; 1-Phase; 12 VDC / 5 A
787 Series

1



Switched-mode power supply; Compact; 1-phase; 12 VDC output voltage; 5 A output current; DC-OK LED

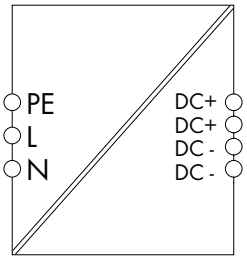
Item No.	Pack. Unit
787-1211	1



Features:
- Switched-mode power supply
- Stepped profile, ideal for distribution boards/boxes
- Removable front panel and screw mounts provide an ideal installation alternative in distribution boxes or devices
- Pluggable *picoMAX*® Connection Technology (tool-free)
- Electrically isolated output voltage (SELV) per EN 62368/UL 62368 and EN 60335-1; PELV per EN 60204
- Suitable for both parallel and series operation

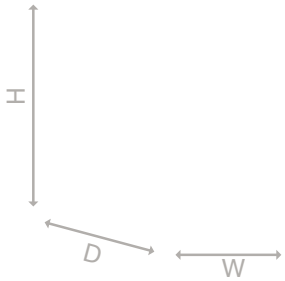
Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC; 140 … 340 VDC
Input voltage range	85 … 264 VAC; 125 … 375 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 0.6 A
Input voltage derating	–2 %/V (<100 VAC); –1.33 %/V (< 140 VDC)
Inrush current	≤ 30 A (NTC)
Power factor	≥ 0.5
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 600 ms (230 VAC); > 12 ms (110 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	12 VDC (SELV) / ≤ 1 %
Output voltage range	10 … 14 VDC (adjustable)
Nominal output current $I_{o\,nom}$	5 A
Nominal output power	60 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.22 … 1.7 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit
Signaling and Communication	
Signaling	1 x DC OK LED (green)
Efficiency/Power Losses	
Efficiency (typ.)	88.5 % (230 VAC; nominal load); 87.5 % (110 VAC, nominal load)
Power loss P_l	≤ 0.6 W (230 VAC; no load)
Power loss (max.) $P_{l\,max.}$	9 W (100 VAC / 12 VDC; 5 A)
Fuse Protection	
Internal fuse	T 3.15 A / 250 VAC
Recommended backup fusing	Circuit breaker: 6 A, 10 A or higher; Tripping characteristic: B
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-GND)	4.242 kVDC / 2.2 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Parallel operation/series operation	Yes, for devices of the same type/yes, for two devices of the same type
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	20 … 90 % (no condensation permissible)
Pollution degree	2
Connection Data	
Connection technology	Push-in CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.2 … 2.5 mm² / 0.2 … 2.5 mm² / 24 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	72 x 90 x 52.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail; Screw mount (back/side)
Weight	270 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61204-3; EN 60335-1; EN 62368-1 ; UL 60950-1; UL 508

Power Supply; Compact; 1-Phase; 12 VDC / 8 A
787 Series



Switched-mode power supply; Compact; 1-phase; 12 VDC output voltage; 8 A output current; DC-OK LED

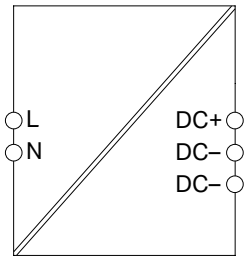
Item No.	Pack. Unit
787-1221	1



Features:
- Stepped profile, ideal for distribution boards/boxes
- Pluggable *picoMAX*® Connection Technology (tool-free)
- Electrically isolated output voltage (SELV) per EN 60335-1
- Suitable for both parallel and series operation

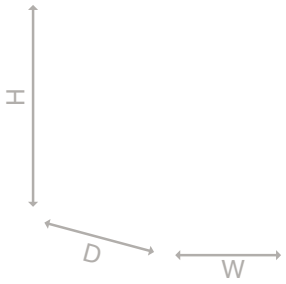
Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC; 140 … 340 VDC
Input voltage range	90 … 264 VAC; 125 … 375 VDC
Input voltage derating	−2 %/V (<100 VAC); −1.33 %/V (< 140 VDC)
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 1.6 A (100 VAC; 8 ADC)
Inrush current	≤ 30 A (NTC)
Power factor	≥ 0.5
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 50 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	12 VDC (SELV)
Output voltage range	10 … 14 VDC (adjustable)
Nominal output current $I_{o\,nom}$	8 A
Nominal output power	96 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.05 … 1.35 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit or permanent overload
Signaling and Communication	
Signaling	1 x LED DC OK (green)
Efficiency/Power Losses	
Power loss P_l	≤ 0.7 W (230 VAC; no load)
Power loss (max.) $P_{l\,max.}$	11.8 W (100 VAC / 12 VDC; 8 A)
Efficiency (typ.)	91.5 % (230 VAC; nominal load); 90 % (110 VAC; nominal load);
Fuse Protection	
Internal fuse	T 3.15 A / 250 VAC
Recommended backup fusing	Circuit breaker: 6 A, 10 A or higher; Tripping characteristic: B
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-GND)	4.242 kVDC / 2.12 kVDC
Protection class/type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel/series operation	Yes/Yes, for 2 devices of the same type
MTBF	> 1.300.000 h (at 25 °C; per IEC 61709); > 250.000 h (at 40 °C; per IEC 61709)
Surrounding air temperature (operation)	−25 … +70 °C
Relative humidity	20 … 90 % (no condensation permissible)
Derating	−2 %/K (> 45 °C)
Pollution degree	2
Connection Data	
Connection technology	Push-in CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.2 … 2.5 mm² / 0.2 … 2.5 mm² / 24 … 12 AWG
Physical Data/Mechanical Data/Material Data	
Width x Height x Depth (mm)	108 x 90 x 52.5; Depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail; Screw mount (back)
Weight	423 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61204-3; EN 60335-1; UL 508

Switched-Mode Power Supply; Compact; 1-Phase; 24 VDC / 0.5 A
787 Series



Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 0.5 A output current; DC-OK LED

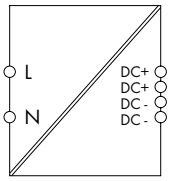
Item No.	Pack. Unit
787-1200	1



Features:
- Switched-mode power supply
- Stepped profile, ideal for distribution boards/boxes
- Pluggable *picoMAX*® Connection Technology (tool-free)
- Electrically isolated output voltage (SELV) per EN 62368/ UL 62368 and EN 60335-1; PELV per EN 60204
- Series operation

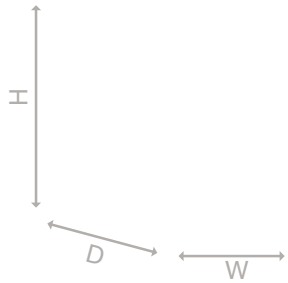
Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	90 … 264 VAC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 0.27 A (100 VAC; 0.5 ADC)
Input voltage derating	–2 %/V (<100 VAC)
Inrush current	≤ 30 A (NTC)
Power factor	≥ 0.5
Power factor correction (PFC)	None
Mains failure hold-up time	≥ 100 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Nominal output current $I_{o\,nom}$	0.5 A
Nominal output power	12 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Shutdown and automatic restart in the event of a short circuit
Signaling and Communication	
Signaling	1 x Status indication LED (green)
Efficiency/Power Losses	
Efficiency (typ.)	83 % (230 VAC; nominal load); 82 % (110 VAC, nominal load)
Power loss P_l	≤ 0.2 W (230 VAC; no load)
Power loss (max.) $P_{l\,max.}$	2.5 W (100 VAC / 24 VDC; 0.5 A)
Fuse Protection	
Internal fuse	T 1 A / 250 VAC
Recommended backup fusing	Circuit breaker: 6 A, 10 A; Tripping characteristic: B
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec.)	4.242 kVDC
Protection class/protection type	II / IP20 (per EN 60529)
Overvoltage category	II
Parallel operation/series operation	No/yes, for two devices of the same type
MTBF	> 700.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	20 … 90 % (no condensation permissible)
Derating	–2.6 %/K (> +55 °C)
Pollution degree	2
Connection Data	
Connection technology	Push-in CAGE CLAMP®
Input (solid/fine-stranded/AWG)	0.2 … 2.5 mm² / 0.2 … 2.5 mm² / 24 … 12 AWG
Output (solid/fine-stranded/AWG)	0.2 … 1.5 mm² / 0.2 … 1.5 mm² / 24 … 14 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	18 x 90 x 52.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail; Screw mount (back/side)
Weight	63 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61204-3; EN 60335-1; EN 62368; UL 62368; UL 508

Switched-Mode Power Supply; Compact; 1-Phase; 24 VDC / 1.3 A
787 Series



Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 1.3 A output current; DC-OK LED

	Item No.	Pack. Unit
	787-1202	1

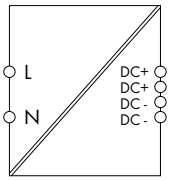


Features:
- Switched-mode power supply
- Stepped profile, ideal for distribution boards or distribution boxes
- Removable front panel and screw mounts provide an ideal installation alternative in distribution boxes or devices
- Pluggable *picoMAX*® connection technology (tool-free)
- Electrically isolated output voltage (SELV) per EN 62368-1; UL 60950-1 and EN 60335-1; PELV per EN 60204
- Suitable for both parallel and series operation

Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	85 … 264 VAC; 125 … 375 VDC
Input voltage derating	−2 %/V (<100 VAC); −1.33 %/V (< 140 VDC)
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 0.6 A
Inrush current	≤ 20 A
Power factor	≥ 0.5
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 70 ms
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	22 … 26 VDC (adjustable)
Nominal output current $I_{o\,nom}$	1.3 A
Nominal output power	31.2 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.05 … 1.35 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit or permanent overload
Signaling and Communication	
Signaling	1 x DC OK LED (green)
Efficiency/Power Losses	
Power loss P_l	≤ 0.43 W (230 VAC; no load)
Power loss (max.) $P_{l\,max.}$	5.5 W (100 VAC / 24 VDC; 1.3 A)
Efficiency (typ.)	87 % (230 VAC); ≥ 82 % (110 VAC)
Fuse Protection	
Internal fuse	T 1 A / 250 VAC
Recommended backup fusing	Circuit breaker 6 A (C characteristic), 10 A (B characteristic) or higher
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec.)	4.242 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 700.000 h (per IEC 61709)
Surrounding air temperature (operation)	−25 … +70 °C
Relative humidity	≤ 95 % (no condensation permissible)
Derating	−2.66 %/K (> +55 °C)
Pollution degree	2
Connection Data	
Connection technology	Push-in CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.2 … 2.5 mm² / 0.2 … 2.5 mm² / 24 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	54 x 90 x 52.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail; Screw mount (back/side)
Weight	234 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61204-3; EN 60335-1; EN 62368-1; UL 60950; UL 508

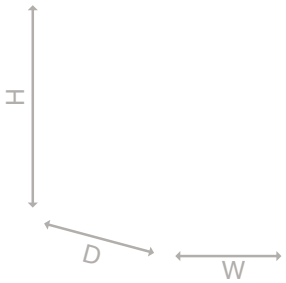
Switched-Mode Power Supply; Compact; 1-Phase; 24 VDC / 2.5 A
787 Series

1



Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 2.5 A output current; DC-OK LED

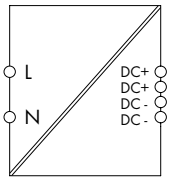
Item No.	Pack. Unit
787-1212	1



Features:
- Switched-mode power supply
- Stepped profile, ideal for distribution boards or distribution boxes
- Removable front panel and screw mounts provide an ideal installation alternative in distribution boxes or devices
- Pluggable *picoMAX*® connection technology (tool-free)
- Electrically isolated output voltage (SELV) per EN 62368-1; UL 60950-1 and EN 60335-1; PELV per EN 60204
- Suitable for both parallel and series operation

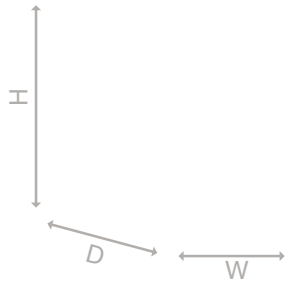
Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	85 … 264 VAC; 125 … 375 VDC
Input voltage derating	–2 %/V (<100 VAC); –1.33 %/V (< 140 VDC)
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 1.5 A
Inrush current	≤ 20 A
Power factor	≥ 0.5
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 60 ms
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	22 … 26 VDC (adjustable)
Nominal output current $I_{o\,nom}$	2.5 A; 2 A (< 110 VAC)
Nominal output power	60 W (max.)
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.05 … 1.35 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit or permanent overload
Signaling and Communication	
Signaling	1 x DC OK LED (green)
Efficiency/Power Losses	
Power loss P_l	≤ 0.6 W (230 VAC; no load)
Power loss (max.) $P_{l\,max.}$	9 W (100 VAC / 24 VDC; 2.5 A)
Efficiency (typ.)	89 % (230 VAC); ≥ 87 % (110 VAC)
Fuse Protection	
Internal fuse	T 2 A / 250 VAC
Recommended backup fusing	Circuit breaker 6 A (C characteristic), 10 A (B characteristic) or higher
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec.)	4.242 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	≤ 95 % (no condensation permissible)
Derating	–2.66 %/K (> +55 °C)
Pollution degree	2
Connection Data	
Connection technology	Push-in CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.2 … 2.5 mm² / 0.2 … 2.5 mm² / 24 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	72 x 90 x 52.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail; Screw mount (back/side)
Weight	288 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61204-3; EN 60335-1; EN 62368-1; UL 60950; UL 508

Switched-Mode Power Supply; Compact; 1-Phase; 24 VDC / 4.2 A
787 Series



Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 4.2 A output current; DC-OK LED

	Item No.	Pack. Unit
	787-1216	1

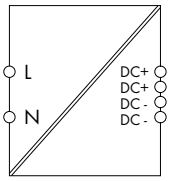


Features:
- Switched-mode power supply
- Stepped profile, ideal for distribution boards or distribution boxes
- Removable front panel and screw mounts provide an ideal installation alternative in distribution boxes or devices
- Pluggable *picoMAX*® connection technology (tool-free)
- Electrically isolated output voltage (SELV) per EN 62368-1; UL 60950-1 and EN 60335-1; PELV per EN 60204
- Suitable for both parallel and series operation

Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	85 … 264 VAC; 125 … 375 VDC
Input voltage derating	–2 %/V (<100 VAC); –1.33 %/V (< 140 VDC)
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 2.5 A
Inrush current	≤ 20 A
Power factor	≥ 0.5
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 50 ms
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	22 … 26 VDC (adjustable)
Nominal output current $I_{o\,nom}$	4.2 A; 3.3 A (< 110 VAC)
Nominal output power	100 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.05 … 1.35 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit or permanent overload
Signaling and Communication	
Signaling	1 x DC OK LED (green)
Efficiency/Power Losses	
Power loss P_l	≤ 0.7 W (230 VAC; no load)
Power loss (max.) $P_{l\,max.}$	15 W (100 VAC / 24 VDC; 4.2 A)
Efficiency (typ.)	90 % (230 VAC); ≥ 87 % (110 VAC)
Fuse Protection	
Internal fuse	T 3.15 A / 250 VAC
Recommended backup fusing	Circuit breaker 6 A (C characteristic), 10 A (B characteristic) or higher
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec.)	4.242 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	≤ 95 % (no condensation permissible)
Derating	–2.66 %/K (> +55 °C)
Pollution degree	2
Connection Data	
Connection technology	Push-in CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.2 … 2.5 mm² / 0.2 … 2.5 mm² / 24 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	108 x 90 x 52.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail; Screw mount (back/side)
Weight	456.9 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61204-3; EN 60335-1; EN 62368-1; UL 60950; UL 508

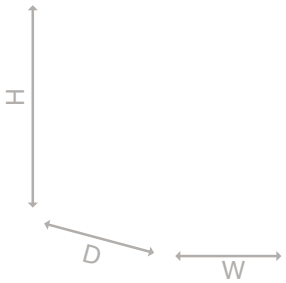
Switched-Mode Power Supply; Compact; 1-Phase; 24 VDC / 6 A
787 Series

1



Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 6 A output current; DC-OK LED

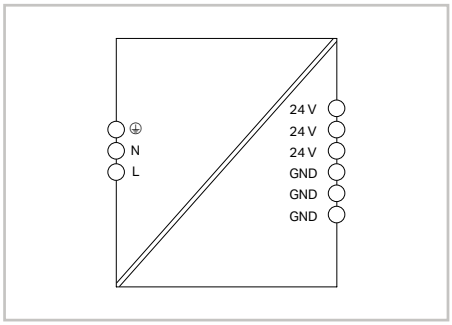
Item No.	Pack. Unit
787-1226	1



Features:
- Switched-mode power supply
- Stepped profile, ideal for distribution boards or distribution boxes
- Removable front panel and screw mounts provide an ideal installation alternative in distribution boxes or devices
- Pluggable *picoMAX*® connection technology (tool-free)
- Electrically isolated output voltage (SELV) per EN 62368-1; UL 60950-1 and EN 60335-1; PELV per EN 60204
- Suitable for both parallel and series operation

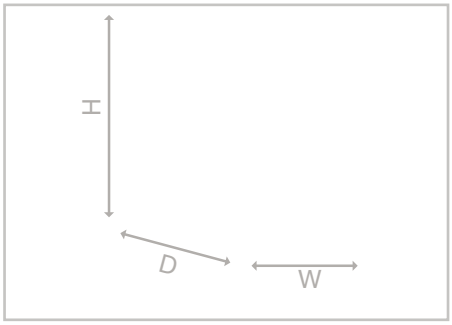
Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 120 VAC; 200 … 240 VAC
Input voltage range	90 … 132 VAC; 180 … 264 VAC; 250 … 375 VDC
Input voltage derating	–2 %/V (< 100 VAC)
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 3.8 A
Inrush current	≤ 20 A
Power factor	≥ 0.5
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 30 ms
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	22 … 26 VDC (adjustable)
Nominal output current $I_{o\,nom}$	6 A; 4.8 A (< 110 VAC)
Nominal output power	150 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.05 … 1.35 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit or permanent overload
Signaling and Communication	
Signaling	1 x DC OK LED (green)
Efficiency/Power Losses	
Power loss P_l	≤ 0.4 W (230 VAC; no load)
Power loss (max.) $P_{l\,max.}$	16.5 W (100 VAC / 24 VDC; 6 A)
Efficiency (typ.)	90 % (230 VAC); ≥ 89 % (110 VAC)
Fuse Protection	
Internal fuse	T 3.15 A / 250 VAC
Recommended backup fusing	Circuit breaker 6 A (C characteristic), 10 A (B characteristic) or higher
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec.)	4.242 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	≤ 95 % (no condensation permissible)
Derating	–2.66 %/K (> +55 °C)
Pollution degree	2
Connection Data	
Connection technology	Push-in CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.2 … 2.5 mm² / 0.2 … 2.5 mm² / 24 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	144 x 90 x 52.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail; Screw mount (back/side)
Weight	510 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61204-3; EN 60335-1; EN 62368-1; UL 60950; UL 508

Power Supply; Compact; 1-Phase; 24 VDC / 1.25 A
787 Series



Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 1.25 A output current

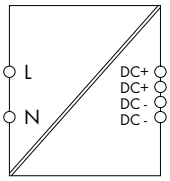
Item No.	Pack. Unit
787-2850	1



Features:
- Stepped profile for installation in standard distribution boards
- Connection technology with Push-in CAGE CLAMP®
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN/UL 61010-1 or EU/UL 61010-2-201

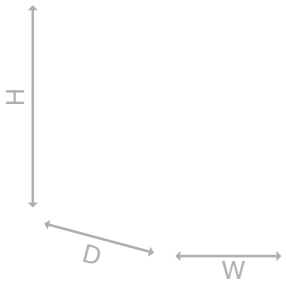
Input	
Nominal input voltage $U_{i\,nom}$	110 … 240 VAC
Input voltage range	100 … 264 VAC
Nominal mains frequency range	47 … 63 Hz
Input current I_i	≤ 0.55 A (110 VAC); ≤ 0.33 A (240 VAC)
Inrush current	≤ 24 A (NTC)
Mains failure hold-up time	≥ 95 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 2 %
Output voltage range	24 VDC (fixed setting)
Nominal output current $I_{o\,nom}$	1.25 A (24 VDC)
Nominal output power	30 W
Residual ripple	≤ 60 mV (peak-to-peak)
Overload behavior	Hiccup
Signaling and Communication	
Signaling	1 x Status indication LED (green)
Efficiency/Power Losses	
Power loss P_l	≤ 0.5 W (230 VAC; no load); ≤ 4 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,max.}$	5 W (110 VAC / 24 VDC; 1.35 A)
Efficiency (typ.)	88 %
Fuse Protection	
Internal fuse	T 1.25 A / 250 VAC
Recommended backup fusing	Circuit breaker: 16 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-GND/sec.-GND)	2.47 kVDC / 3.92 kVDC / 0.5 kVDC
Protection class/type	I / IP20 (per EN 60529)
Overvoltage category	III
Short-circuit-protected	Yes
Parallel/series operation	Yes/Yes
MTBF	> 2.500.000 h (per EN/IEC 61709 at +40 °C)
Surrounding air temperature (operation)	−20 … +70 °C (in nominal mounting position); −20 … +55 °C (in any mounting position)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	−1.7 %/K (> +55 °C)
Pollution degree	2
Connection Data	
Connection technology	Push-in CAGE CLAMP®
Input (solid/fine-stranded/AWG)	0.25 … 2.5 mm² / 0.25 … 2.5 mm² / 20 … 12 AWG
Output (solid/fine-stranded/AWG)	0.2 … 1.5 mm² / 0.2 … 1.5 mm² / 24 … 16 AWG
Physical Data/Mechanical Data/Material Data	
Width x Height x Depth (mm)	36 x 90 x 55; Depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	120 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61204-3; EN 61010-1; EN 61010-2-201; cULus 61010-1; cULus 61010-2-201; DNV GL

Switched-Mode Power Supply; Compact; 1-Phase; 5 VDC / 5.5 A
787 Series



Switched-mode power supply; Compact; 1-phase; 5 VDC output voltage; 5.5 A output current; DC OK signal

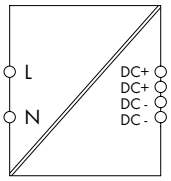
Item No.	Pack. Unit
787-1020	1



Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Stepped profile, ideal for distribution boards or distribution boxes
- Overhead mounting is possible with derating
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 61010-1/ 61010-2-201/ UL 60950-1; PELV per EN 60204

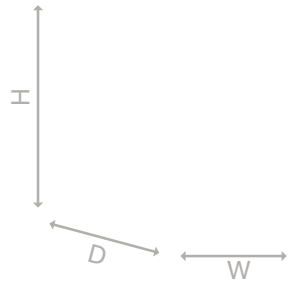
Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	85 … 264 VAC; 120 … 373 VDC
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 0.29 A (230 VAC); ≤ 0.56 A (110 VAC)
Inrush current	≤ 30 A (NTC)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 80 ms (230 VAC); > 10 ms (110 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	5 VDC (SELV) / ≤ 2 %
Output voltage range	4.5 … 8.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	5.5 A (5 VDC); 3.5 A (in any mounting position)
Nominal output power	27.5 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant current
Signaling and Communication	
Signaling	1 x Status indication LED (green)
Efficiency/Power Losses	
Power loss P_l	≤ 2.4 W (230 VAC; no load); ≤ 9.4 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,max.}$	9.9 W (264 VAC / 5 VDC; 5.5 A)
Efficiency (typ.)	75 %
Fuse Protection	
Internal fuse	T 2 A / 250 VAC
Recommended backup fusing	Circuit breaker 6 A (C characteristic), 10 A (B characteristic) or higher
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec.)	4.2 kVDC
Protection class/protection type	II / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	−25 … +60 °C (device starts at −40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	−3 %/K (> +45 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	72 x 89 x 55; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	240 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; 61010-2-201; EN 61204-3; UL 60950-1; UL 508; DNV GL* (*pending)

Switched-Mode Power Supply; Compact; 1-Phase; 12 VDC / 2 A
787 Series



Switched-Mode Power Supply; Compact; 1-phase; Output voltage: 12 VDC; Output current: 2 A

	Item No.	Pack. Unit
	787-1001	1

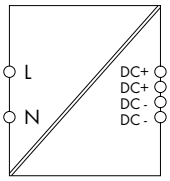


Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Stepped profile, ideal for distribution boards or distribution boxes
- Overhead mounting is possible with derating
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 61010-1/ 61010-2-201/ UL 60950-1; PELV per EN 60204

Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	85 … 264 VAC; 120 … 373 VDC
Input voltage derating	I_o ≤ 1.5 A (< 100 VAC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 0.4 A (230 VAC); ≤ 0.6 A (110 VAC)
Inrush current	≤ 30 A (NTC)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 80 ms (230 VAC); > 10 ms (110 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	12 VDC (SELV) / ≤ 2 %
Output voltage range	10.5 … 18 VDC (adjustable)
Nominal output current $I_{o\,nom}$	2 A (12 VDC); 1.4 A (12 VDC; in any mounting position); 0.75 A (18 VDC)
Nominal output power	24 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant current
Signaling and Communication	
Signaling	1 x Status indication LED (green)
Efficiency/Power Losses	
Power loss P_l	≤ 2.6 W (230 VAC; no load); ≤ 6 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,max.}$	6 W (100 VAC / 12 VDC; 2 A)
Efficiency (typ.)	80 %
Fuse Protection	
Internal fuse	T 2 A / 250 VAC
Recommended backup fusing	Circuit breaker 6 A (C characteristic), 10 A (B characteristic) or higher
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec.)	4.242 kVDC
Protection class/protection type	II / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +60 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	–3 %/K (> +45 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	54 x 89 x 55; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	180 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; 61010-2-201; EN 61204-3; UL 60950-1; UL 508; DNV GL

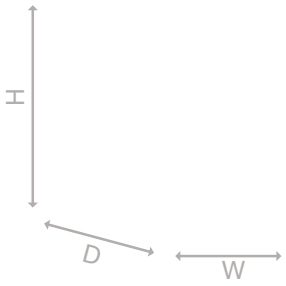
Switched-Mode Power Supply; Compact; 1-Phase; 12 VDC / 4 A
787 Series

1



Switched-Mode Power Supply; Compact; 1-phase; Output voltage: 12 VDC; Output current: 4 A

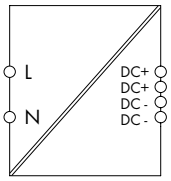
Item No.	Pack. Unit
787-1011	1



Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Stepped profile, ideal for distribution boards or distribution boxes
- Overhead mounting is possible with derating
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 61010-1/ 61010-2-201/ UL 60950-1; PELV per EN 60204

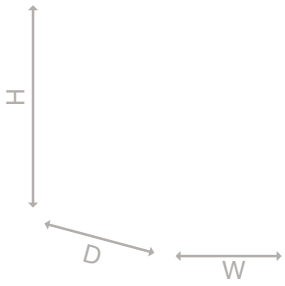
Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	85 … 264 VAC; 120 … 373 VDC
Input voltage derating	I_o ≤ 3.5 A (< 100 VAC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 0.5 A (230 VAC); ≤ 0.9 A (110 VAC)
Inrush current	≤ 30 A (NTC)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 80 ms (230 VAC); > 10 ms (110 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	12 VDC (SELV) / ≤ 2 %
Output voltage range	10.5 … 15.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	4 A (12 VDC); 2.4 A (in any mounting position)
Nominal output power	48 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant current
Signaling and Communication	
Signaling	1 x Status indication LED (green)
Efficiency/Power Losses	
Power loss P_l	≤ 2.2 W (230 VAC; no load); ≤ 8.5 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,max.}$	9 W (100 VAC / 12 VDC; 4 A)
Efficiency (typ.)	85 %
Fuse Protection	
Internal fuse	T 2 A / 250 VAC
Recommended backup fusing	Circuit breaker 6 A (C characteristic), 10 A (B characteristic) or higher
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec.)	4.242 kVDC
Protection class/protection type	II / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +60 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	–3 %/K (> +45 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	72 x 89 x 55; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	255 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; 61010-2-201; EN 61204-3; UL 60950-1; UL 508; DNV GL

Switched-Mode Power Supply; Compact; 1-Phase; 12 VDC / 6 A
787 Series



Switched-mode power supply; Compact; 1-phase; 12 VDC output voltage; 6.5 A output current

Item No.	Pack. Unit
787-1021	1

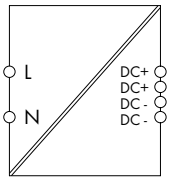


Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Stepped profile, ideal for distribution boards or distribution boxes
- Overhead mounting is possible with derating
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 61010-1/ 61010-2-201/ UL 60950-1; PELV per EN 60204

Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	85 … 264 VAC; 120 … 373 VDC
Input voltage derating	$I_o \leq 6$ A (< 100 VAC); $I_o \leq 5.5$ A (< 90 VAC)
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 0.9 A (230 VAC); ≤ 1.6 A (110 VAC)
Inrush current	≤ 30 A (NTC)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 100 ms (230 VAC); > 15 ms (110 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	12 VDC (SELV) / ≤ 2 %
Output voltage range	10.5 … 15.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	6 A (12 VDC); 3.9 A (12 VDC; in any mounting position)
Nominal output power	78 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant current
Signaling and Communication	
Signaling	1 x Status indication LED (green)
Efficiency/Power Losses	
Power loss P_l	≤ 1 W (230 VAC; no load); ≤ 15 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,max.}$	15 W (100 VAC / 12 VDC; 6.5 A)
Efficiency (typ.)	87 %
Fuse Protection	
Internal fuse	T 4 A / 250 VAC
Recommended backup fusing	Circuit breaker 6 A (C characteristic), 10 A (B characteristic) or higher
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec.)	4.242 kVDC
Protection class/protection type	II / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	−25 … +60 °C (device starts at −40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	−3 %/K (> +45 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	90 x 89 x 55; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	300 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; 61010-2-201; EN 61204-3; UL 60950-1; UL 508; DNV GL

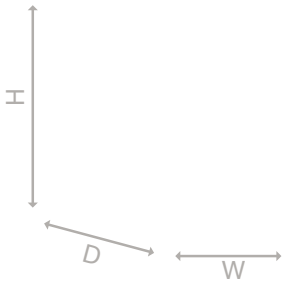
Switched-Mode Power Supply; Compact; 1-Phase; 18 VDC / 2.4 A
787 Series

1



Switched-Mode Power Supply; Compact; 1-phase; Output voltage: 18 VDC; Output current: 2.5 A

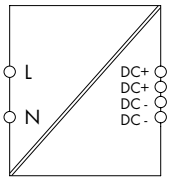
Item No.	Pack. Unit
787-1017	1



Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Stepped profile, ideal for distribution boards or distribution boxes
- Overhead mounting is possible with derating
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 61010-1/ 61010-2-201/ UL 60950-1; PELV per EN 60204

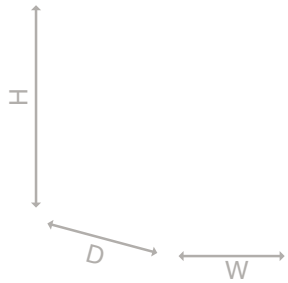
Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	85 … 264 VAC; 120 … 373 VDC
Input voltage derating	I_o ≤ 2 A (< 100 VAC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 0.5 A (230 VAC); ≤ 0.9 A (110 VAC)
Inrush current	≤ 30 A (NTC)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 10 ms (230 VAC); > 10 ms (110 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	18 VDC / ≤ 2 %
Output voltage range	15 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	2.4 A (18 VDC); 2 A (24 VDC; in any mounting position)
Nominal output power	43 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant current
Signaling and Communication	
Signaling	1 x Status indication LED (green)
Efficiency/Power Losses	
Power loss P_l	≤ 2.6 W (230 VAC; no load); ≤ 8.1 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,max.}$	8.2 W (100 VAC / 18 VDC; 2.4 A)
Efficiency (typ.)	84 %
Fuse Protection	
Internal fuse	T 2 A / 250 VAC
Recommended backup fusing	Circuit breaker 6 A (C characteristic), 10 A (B characteristic) or higher
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec.)	4.242 kVDC
Protection class/protection type	II / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	−25 … +60 °C (device starts at −40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	−3 %/K (> +45 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	72 x 89 x 55; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	264 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; 61010-2-201; EN 61204-3; UL 60950-1; UL 508

Switched-Mode Power Supply; Compact; 1-Phase; 24 VDC / 1.3 A
787 Series



Switched-Mode Power Supply; Compact; 1-phase; Output voltage: 24 VDC; Output current: 1.3 A

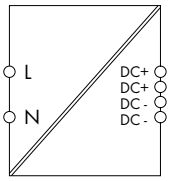
Item No.	Pack. Unit
787-1002	1



Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Stepped profile, ideal for distribution boards or distribution boxes
- Overhead mounting is possible with derating
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 61010-1/ 61010-2-201/ UL 60950-1; PELV per EN 60204

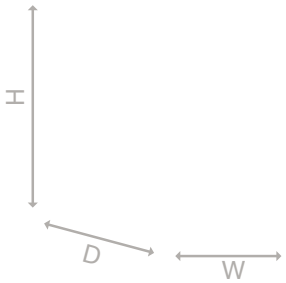
Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	85 … 264 VAC; 120 … 373 VDC
Input voltage derating	I_o ≤ 1 A (< 100 VAC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 0.5 A (230 VAC); ≤ 0.7 A (110 VAC)
Inrush current	≤ 30 A (NTC)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 80 ms (230 VAC); > 10 ms (110 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 2 %
Output voltage range	22.8 … 26.4 VDC (adjustable)
Nominal output current $I_{o\,nom}$	1.3 A (24 VDC); 0.9 A (in any mounting position)
Nominal output power	31.2 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant current
Signaling and Communication	
Signaling	1 x Status indication LED (green)
Efficiency/Power Losses	
Power loss P_l	≤ 2.6 W (230 VAC; no load); ≤ 7 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,max.}$	7.3 W (100 VAC / 24 VDC; 1.3 A)
Efficiency (typ.)	82 %
Fuse Protection	
Internal fuse	T 2 A / 250 VAC
Recommended backup fusing	Circuit breaker 6 A (C characteristic), 10 A (B characteristic) or higher
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec.)	4.242 kVDC
Protection class/protection type	II / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	−25 … +60 °C (device starts at −40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	−3 %/K (> +45 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	54 x 89 x 55; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	180 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; 61010-2-201; EN 61204-3; UL 60950-1; UL 508; DNV GL

Switched-Mode Power Supply; Compact; 1-Phase; 24 VDC / 1.3 A
787 Series



Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 1.3 A output current; DC OK signal

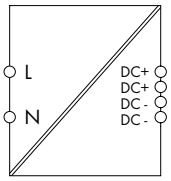
Item No.	Pack. Unit
787-1102	1



Features:
- Switched-mode power supply
- Stepped profile for installation in standard distribution boards
- Pluggable *picoMAX*® connection technology (tool-free)
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1; PELV per EN 60204
- Suitable for both parallel and series operation

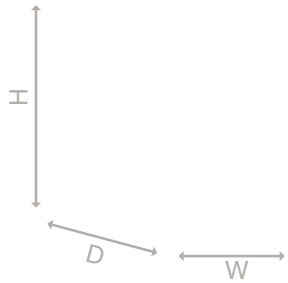
Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	85 … 264 VAC; 120 … 373 VDC
Input voltage derating	I_o ≤ 1 A (< 100 VAC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 0.5 A (230 VAC); ≤ 0.7 A (110 VAC)
Inrush current	≤ 30 A (NTC)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 80 ms (230 VAC); > 10 ms (110 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 2 %
Output voltage range	22.8 … 26.4 VDC (adjustable)
Nominal output current $I_{o\,nom}$	1.3 A (24 VDC); 0.9 A (in any mounting position)
Nominal output power	31 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant current
Signaling and Communication	
Signaling	1 x Status indication LED (green)
Efficiency/Power Losses	
Power loss P_l	≤ 2.6 W (230 VAC; no load); ≤ 7 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,max.}$	7.3 W (100 VAC / 24 VDC; 1.3 A)
Efficiency (typ.)	82 %
Fuse Protection	
Internal fuse	T 2 A / 250 VAC
Recommended backup fusing	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec.)	4.242 kVDC
Protection class/protection type	II / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	−25 … +60 °C (device starts at −40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	−3 %/K (> +45 °C)
Pollution degree	2
Connection Data	
Connection technology	Push-in CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.2 … 2.5 mm² / 0.2 … 2.5 mm² / 24 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	54 x 89 x 55; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	170 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950-1; EN 61204-3; UL 60950-1; UL 508; DNV GL

Switched-Mode Power Supply; Compact; 1-Phase; 24 VDC / 2.5 A
787 Series



Switched-Mode Power Supply; Compact; 1-phase; Output voltage: 24 VDC; Output current: 2.5 A

Item No.	Pack. Unit
787-1012	1

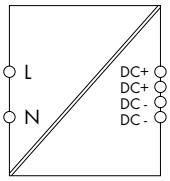


Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Stepped profile, ideal for distribution boards or distribution boxes
- Overhead mounting is possible with derating
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 61010-1/ 61010-2-201/ UL 60950-1; PELV per EN 60204

Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	85 … 264 VAC; 120 … 373 VDC
Input voltage derating	$I_o \leq 2$ A (< 100 VAC); $I_o \leq 1.8$ A (< 90 VAC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 0.6 A (230 VAC); ≤ 1.4 A (110 VAC)
Inrush current	≤ 30 A (NTC)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 80 ms (230 VAC); > 10 ms (110 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 2 %
Output voltage range	22.8 … 26.4 VDC (adjustable)
Nominal output current $I_{o\,nom}$	2.5 A (24 VDC); 1.6 A (in any mounting position)
Nominal output power	60 W (max.)
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant current
Signaling and Communication	
Signaling	1 x Status indication LED (green)
Efficiency/Power Losses	
Power loss P_l	≤ 2.2 W (230 VAC; no load); ≤ 8.5 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,max.}$	10.5 W (100 VAC / 24 VDC; 2.5 A)
Efficiency (typ.)	88 %
Fuse Protection	
Internal fuse	T 2 A / 250 VAC
Recommended backup fusing	Circuit breaker 6 A (C characteristic), 10 A (B characteristic) or higher
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec.)	4.242 kVDC
Protection class/protection type	II / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	−25 … +60 °C (device starts at −40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	−3 %/K (> +45 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	72 x 89 x 55; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	255 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; 61010-2-201; EN 61204-3; UL 60950-1; UL 508; DNV GL

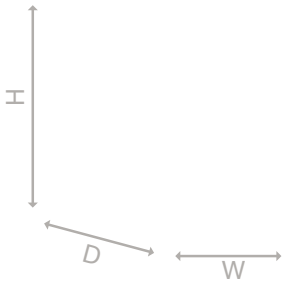
Switched-Mode Power Supply; Compact; 1-Phase; 24 VDC / 2.5 A
787 Series

1



Switched-Mode Power Supply; Compact; 1-phase; Output voltage: 24 VDC; Output current: 2.5 A

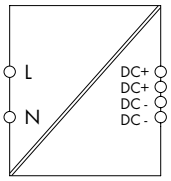
Item No.	Pack. Unit
787-1112	1



Features:
- Switched-mode power supply
- Stepped profile for installation in standard distribution boards
- Pluggable *picoMAX*® connection technology (tool-free)
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1; PELV per EN 60204
- Suitable for both parallel and series operation

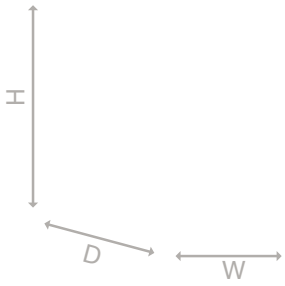
Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	85 … 264 VAC; 120 … 373 VDC
Input voltage derating	$I_o \leq 2$ A (< 100 VAC); $I_o \leq 1.8$ A (< 90 VAC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 0.6 A (230 VAC); ≤ 1.4 A (110 VAC)
Inrush current	≤ 30 A (NTC)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 80 ms (230 VAC); > 10 ms (110 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 2 %
Output voltage range	22.8 … 26.4 VDC (adjustable)
Nominal output current $I_{o\,nom}$	2.5 A (24 VDC); 1.6 A (in any mounting position)
Nominal output power	60 W (max.)
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant current
Signaling and Communication	
Signaling	1 x Status indication LED (green)
Efficiency/Power Losses	
Power loss P_l	≤ 2.2 W (230 VAC; no load); ≤ 8.5 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,max.}$	10.5 W (100 VAC / 24 VDC; 2.5 A)
Efficiency (typ.)	88 %
Fuse Protection	
Internal fuse	T 2 A / 250 VAC
Recommended backup fusing	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec.)	4.242 kVDC
Protection class/protection type	II / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	−25 … +70 °C (device starts at −40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	−3 %/K (> +45 °C)
Pollution degree	2
Connection Data	
Connection technology	Push-in CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.2 … 2.5 mm² / 0.2 … 2.5 mm² / 24 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	72 x 89 x 55; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	240 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950-1; EN 61204-3; UL 60950-1; UL 508; DNV GL

Switched-Mode Power Supply; Compact; 1-Phase; 24 VDC / 4 A
787 Series



Switched-Mode Power Supply; Compact; 1-phase; Output voltage: 24 VDC; Output current: 4 A

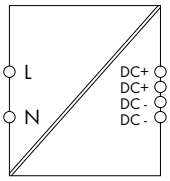
Item No.	Pack. Unit
787-1022	1



Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Stepped profile, ideal for distribution boards or distribution boxes
- Overhead mounting is possible with derating
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 61010-1/ 61010-2-201/ UL 60950-1; PELV per EN 60204

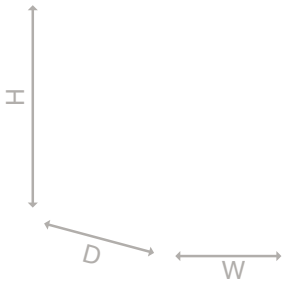
Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	85 … 264 VAC; 120 … 373 VDC
Input voltage derating	upon request
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 0.9 A (230 VAC); ≤ 1.6 A (110 VAC)
Inrush current	≤ 30 A (NTC)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 100 ms (230 VAC); > 15 ms (110 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 2 %
Output voltage range	22.8 … 26.4 VDC (adjustable)
Nominal output current $I_{o\,nom}$	4 A (24 VDC); 2.4 A (in any mounting position)
Nominal output power	96 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant current
Signaling and Communication	
Signaling	1 x Status indication LED (green)
Efficiency/Power Losses	
Power loss P_l	≤ 0.8 W (230 VAC; no load); ≤ 13.1 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,max.}$	14.8 W (264 VAC / 24 VDC; 4 A)
Efficiency (typ.)	88 %
Fuse Protection	
Internal fuse	T 4 A / 250 VAC
Recommended backup fusing	Circuit breaker ≥ 6 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec.)	4.242 kVDC
Protection class/protection type	II / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +60 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	–3 %/K (> +45 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	90 x 89 x 55; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	310 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; 61010-2-201; EN 61204-3; UL 60950-1; UL 508; DNV GL

Switched-Mode Power Supply; Compact; 1-Phase; 24 VDC / 4 A
787 Series



Switched-Mode Power Supply; Compact; 1-phase; Output voltage: 24 VDC; Output current: 4 A

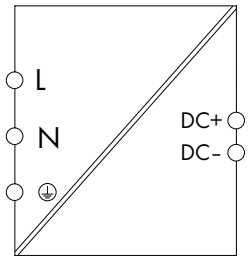
Item No.	Pack. Unit
787-1122	1



Features:
- Switched-mode power supply
- Stepped profile for installation in standard distribution boards
- Pluggable *picoMAX*® connection technology (tool-free)
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1; PELV per EN 60204
- Suitable for both parallel and series operation

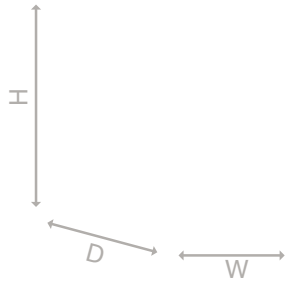
Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	85 … 264 VAC; 120 … 373 VDC
Input voltage derating	I_o ≤ 3.5 A (< 100 VAC); I_o ≤ 3 A (< 90 VAC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 0.9 A (230 VAC); ≤ 1.6 A (110 VAC)
Inrush current	≤ 30 A (NTC)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 100 ms (230 VAC); > 15 ms (110 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 2 %
Output voltage range	22.8 … 26.4 VDC (adjustable)
Nominal output current $I_{o\,nom}$	4 A (24 VDC); 2.4 A (in any mounting position)
Nominal output power	96 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant current
Signaling and Communication	
Signaling	1 x Status indication LED (green)
Efficiency/Power Losses	
Power loss P_l	≤ 0.8 W (230 VAC; no load); ≤ 13.1 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,max.}$	14.8 W (264 VAC / 24 VDC; 4 A)
Efficiency (typ.)	88 %
Fuse Protection	
Internal fuse	T 4 A / 250 VAC
Recommended backup fusing	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec.)	4.242 kVDC
Protection class/protection type	II / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	−25 … +70 °C (device starts at −40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	−3 %/K (> +45 °C)
Pollution degree	2
Connection Data	
Connection technology	Push-in CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.2 … 2.5 mm² / 0.2 … 2.5 mm² / 24 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	90 x 89 x 55; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	300 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950-1; EN 61204-3; UL 60950-1; UL 508; DNV GL

Switched-Mode Power Supply; 1-Phase; IP67; 24 VDC / 4 A
787 Series



Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 4 A output current; PowerBoost

	Item No.	Pack. Unit
	787-6716	1



Features:
- Switched-mode power supply with PowerBoost
- Low-profile, compact design
- Extremely robust, fully encapsulated housing (IP67)
- Active power factor correction
- High efficiency up to 92.3%
- Surrounding air temperature up to 85°C
- Suitable for both parallel and series operation

Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC/DC
Input voltage range	90 … 265 VAC/DC
Nominal mains frequency range	47 … 63.6 Hz; 0 Hz
Input current I_i	≤ 0.5 A (250 VAC); ≤ 1.1 A (100 VAC)
Inrush current	≤ 9 A
Power factor	≥ 0.98
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 45 ms
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Output voltage range	±2 %
Nominal output current $I_{o\,nom}$	4 A
Nominal output power	96 W
Residual ripple	≤ 100 mV (peak-to-peak); ≤ 20 mV (rms)
Overload behavior	Constant current
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x Overload LED (red)
Efficiency/Power Losses	
Power loss P_l	≤ 1 W (no load); ≤ 7.9 W (nominal load)
Efficiency (typ.)	92.3 % (230 VAC)
Fuse Protection	
Internal fuse	T 6.3 A
Recommended backup fusing	Circuit breaker: 4 … 20 A; Characteristic: C; T 20 A in building installations
Safety and Protection/Environmental Requirements	
Protection class/protection type	I / IP67
Short-circuit-protected	Yes
Parallel operation/series connection	Max. 3 devices/max. 2 devices
MTBF	> 960.000 h
Surrounding air temperature (operation)	–40 … +85 °C
Relative humidity	4 … 100 %
Derating	–3.84 W/K (> +60 °C)
Connection Data	
Input	7/8"; 3-pole plug
Output	7/8"; 5-pole socket
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	111 x 141 x 54
Mounting type	Screw mount
Weight	1100 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; EN 61010-2-201; EN 61204; UL 508

Accessories for IP67 Power
Power Supply Cable
787 Series

1

Electrical Data	
Operating voltage	600 VAC/VDC
Operating current	9 A
Safety and Protection/Environmental Requirements	
Rated surge voltage	4 kV
Protection type	IP67
Surrounding air temperature (operation)	−25 … +80 °C
Connection Data	
Sheathed cable diameter	7.4 mm

Features:
- 7/8" screw connection: Industry-proven connection technology for a large selection of different conductors
- High degree of protection for safe field applications
- Vibration- and shock-resistant via integrated locking mechanism
- PUR coating

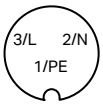
Similar to picture

Power Supply Cable; pre-assembled; 7/8"; 3-pole; Straight socket; open-ended

Length	Item No.	Pack. Unit
3 m	787-6716/9310-030	1
5 m	787-6716/9310-050	1
10 m	787-6716/9310-100	1

Power Supply Cable; pre-assembled; 7/8"; 5-pole; Straight plug; open-ended

Length	Item No.	Pack. Unit
1.5 m	787-6716/9510-015	1
3 m	787-6716/9510-030	1
5 m	787-6716/9510-050	1



7/8" socket

1 green
2 black
3 white

7/8" plug

1 white
2 red
3 green
4 orange
5 black

Accessories for IP67 Power Connector
787 Series

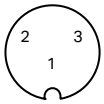
Electrical Data	
Operating voltage	600 VAC/VDC
Operating current	9 A
Safety and Protection/Environmental Requirements	
Rated surge voltage	4 kV
Protection type	IP67
Surrounding air temperature (operation)	−25 … +80 °C
Connection Data	
Sheathed cable diameter	7.4 mm

Features:
- 7/8" screw connection: Industry-proven connection technology for a large selection of different conductors
- High degree of protection for safe field applications
- Vibration- and shock-resistant via integrated locking mechanism
- PUR coating

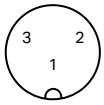
Similar to picture

Connector; 7/8"; 3-pole; Angled socket		
	Item No.	Pack. Unit
	787-6716/9400-000	1

Connector; 7/8"; 3-pole; Straight plug		
	Item No.	Pack. Unit
	787-6716/9100-000	1



7/8" socket



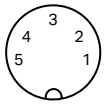
7/8" plug

Accessories for IP67 Power Connector
787 Series

1

Connector; 7/8"; 5-pole; Straight plug; Clamping range: 6 … 8 mm

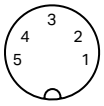
	Item No.	Pack. Unit
	787-6716/9500-000	1



7/8" plug

Connector; 7/8"; 5-pole; Angled plug; Clamping range: 6 … 8 mm

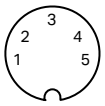
	Item No.	Pack. Unit
	787-6716/9600-000	1



7/8" plug

Connector; 7/8"; 5-pole; Straight socket; Clamping range: 6 … 8 mm

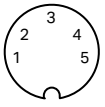
	Item No.	Pack. Unit
	787-6716/9700-000	1



7/8" socket

Connector; 7/8"; 5-pole; Angled socket; Clamping range: 6 … 8 mm

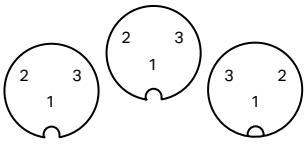
	Item No.	Pack. Unit
	787-6716/9800-000	1



7/8" socket

Connector; 7/8"; 3-pole; T-connector

	Item No.	Pack. Unit
	787-6716/9000-1000	1

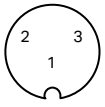


7/8" socket

7/8" socket 7/8" plug

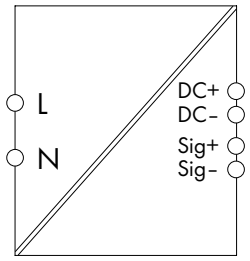
Connector; 7/8"; 3-pole; Straight socket

	Item No.	Pack. Unit
	787-6716/9300-000	1



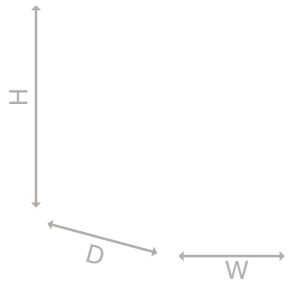
7/8" socket

Power Supply for Fan Control; 1-Phase; 22 VDC / 1 A
787 Series



Switched-Mode Power Supply; 1-phase; Output voltage: 22 VDC; Output current: 1 A

	Item No.	Pack. Unit
	787-914	1



Features:
- Power supply for small loads that operate at a variable input voltage
- The output voltage can be adjusted linearly by hand or via an analog voltage signal (0 … 10 V) in the range from 12 … 22 V, e.g., for automatically controlling fan speed in control cabinets
- Flat design allows installation in confined spaces
- Variable mounting options for space-saving installation, e.g., in recesses

Input	
Nominal input voltage $U_{i\,nom}$	100 … 240 VAC
Input voltage range	90 … 264 VAC; 130 … 373 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 0.6 A
Discharge current	≤ 1 mA
Inrush current	≤ 18 A
Power factor	≥ 0.45
Power factor correction (PFC)	Not required
Mains failure hold-up time	≥ 15 ms
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	22 VDC / ≤ 1 %
Output voltage range	12 … 22 VDC ±2.5 % (adjustable by hand or via signal input)
Default setting	22 VDC
Nominal output current $I_{o\,nom}$	0.8 A (< 110 VAC); 1 A (110 … 240 VAC)
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.05 … 1.7 x $I_{o\,nom}$); Hiccup in the event of a short circuit or permanent overload
Signaling and Communication	
Signaling	1 x Status indication LED (green); 1 x Signal input (10 VDC)
Operation status indicator	Green LED (U_o)
Input signal (voltage)	0 … 10 V
Input impedance	≥ 10 kΩ
Efficiency/Power Losses	
Power loss P_l	≤ 0.8 W (no load)
Power loss (max.) $P_{l\,max.}$	≤ 4 W
Efficiency (typ.)	84 % (230 VAC); 80 % (110 VAC)
Fuse Protection	
Internal fuse	1 A / 250 VAC
Recommended backup fusing	Circuit breaker: B6, C4 or higher
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec.)	4.242 kVDC
Protection class/protection type	II / IP20 (per EN 60529)
Reverse voltage protection	Yes (signal input)
Resistance to reverse feed	≤ DC 31 V
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	Yes (signal input); ≤ 31 VDC (output; in the event of a fault)
Short-circuit-protected	Yes
Parallel operation/series connection	Yes/yes
MTBF	> 500.000 h (at +25 °C per IEC 61709)
Surrounding air temperature (operation)	–20 … +60 °C
Surrounding air temperature (storage)	-25 … +75 °C
Relative humidity	20 … 90 % (no condensation permissible)
Derating	–2.47 %/K (> +45 °C)
Pollution degree	2
Climatic category	3K3 (per EN 60721; except for low air pressure)
Connection Data	
Connection technology	CAGE CLAMP®
WAGO Connector	WAGO 236 Series
Solid conductor	0.08 … 2.5 mm² / 28 … 12 AWG
Fine-stranded conductor	0.08 … 2.5 mm² / 28 … 12 AWG
Strip length	5 … 6 mm / 0.2 … 0.24 inch
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	45 x 156 x 35; height including fastening clips
Mounting type	DIN-35 rail (EN 60715); Screw mounting
Weight	160 g
Standards and Specifications	
Approvals/standards/specifications	CE; UL 60950; EN 61204-3; EN 62368-1; EN 61000-6-3

WAGO Power Supplies; 3-Phase

WAGO Power Supplies; 3-Phase

2

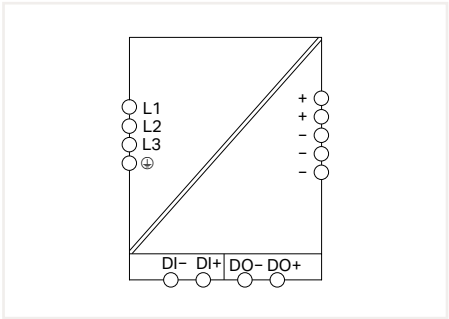
WAGO Power Supplies; 3-Phase
Selection Guide

2

Nominal voltage (output)	Nominal current (output) [ADC]	Approvals							DC OK signal/ contact	RS-232 interface	TopBoost [1]	PowerBoost	Efficiency typ. [%]	Surrounding air temperature [°C] [4]	Item Number	Page
		EN 60335	cURus 60950	cULus 508	cULus 61010	DNVGL	ANSI/ISA 12.12.1	ATEX/IEC Ex								
24 VDC	6.25		■	■		■			■				87.0	–25 … +70	787-738	96
	10.0				■						■	■	93.0	–25 … +70	2787-2346	89
	10.0				■						■	■	95.0	–25 … +70	2787-2357	92
	10.0		■	■					■		■	■	91.7	–25 … +70	787-840	97
	10.0		■	■					■	■	■	■	91.7	–25 … +70	787-850	100
	10.0		■	■		■			■		■		90.0	–25 … +70	787-1640	105
	10.0		■	■					■				89.0	–25 … +70	787-740	109
	20.0				■				■		■	■	94.8	–25 … +70	2787-2347	90
	20.0				■						■	■	96.0	–25 … +70	2787-2358	93
	20.0		■	■					■		■	■	92.9	–25 … +70	787-842	98
	20.0		■	■					■	■	■	■	92.9	–25 … +70	787-852	101
	20.0		■	■		■			■		■		92.0	–25 … +70	787-1642	106
	20.0		■	■					■				90.0	–25 … +70	787-742	110
	20.0		■	■					■				90.5	–20 … +70	787-2742	111
	40.0				■				■		■	■	95.0	–25 … +70	2787-2348	91
	40.0		■	■					■		■	■	93.6	–25 … +55	787-844	99
	40.0		■	■					■	■	■	■	93.6	–25 … +55	787-854	102
	40.0		■	■		■			■		■		92.0	–25 … +70	787-1644	107
	40.0		■	■									91.5	–20 … +70	787-2744	112
48 VDC	10.0		■	■					■		■	■	93.0	–25 … +70	787-845	103
	20.0		■	■					■		■	■	94.4	–25 … +70	787-847	104

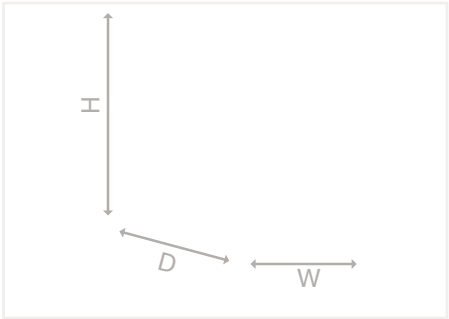
■ Yes

Power Supply; Pro 2; 3-Phase; 24 VDC / 10 A
2787 Series



Power supply; Pro 2; 3-phase; 24 VDC output voltage; 10 A output current; TopBoost + PowerBoost; communication capability

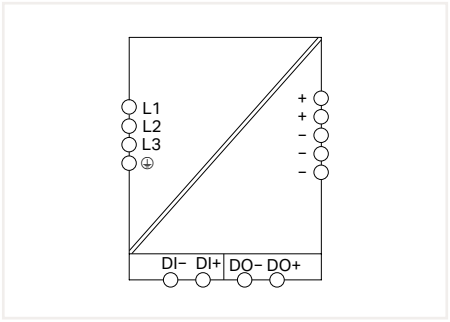
	Item No.	Pack. Unit
	2787-2346	1



Features:
- Power supply with TopBoost, PowerBoost and configurable overload behavior
- Configurable digital signal input and output, optical status indication, function keys
- Communication interface for configuration and monitoring
- Optional connection to IO-Link
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Pluggable connection technology
- Electrically isolated output voltage (SELV/PELV) per EN 61010/UL 61010
- Marker slot for WAGO Marker Cards (WMB) and WAGO Marking Strips

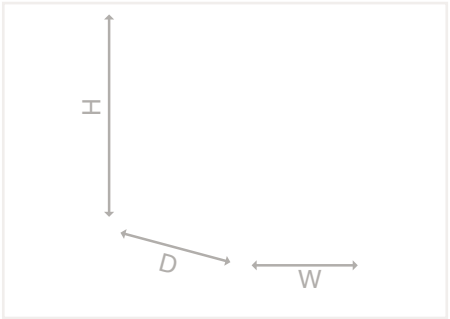
Input	
Nominal input voltage $U_{i\,nom}$	(2/3) x 400 … 500 VAC
Input voltage range	(2/3) x 340 … 550 VAC; 480 … 780 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 3 x 0.6 A (400 VAC; 10 ADC)
Inrush current	≤ 15 A (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (3 x 400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	24 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	20 A (24 VDC)
Nominal output power	480 W
Residual ripple	≤ 70 mV (peak-to-peak)
Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)
Signaling and Communication	
Signaling	Optical status indication (DC OK; load; warning and error states); Digital signal input and output (DI/DO)
Communication	Communication interface, can be used with WAGO USB Communication Cable (750-923) or IO-Link Communication Module (2789-9080) or Modbus RTU Communication Module (2789-9015)
Efficiency/Power Losses	
Power loss P_l	≤ 3 W (standby); ≤ 3 W (no load); ≤ 18 W (nominal load)
Efficiency (typ.)	93 % (400 VAC; 10 A; 25 °C)
Fuse Protection	
Internal fuse	3 x T 2.5 A / 500 VAC
Recommended backup fusing	3 x 16 A (for USA/Canada: 3 x 15 A)
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-GND/sec.-GND/ sec.-signal)	3.51 kVAC / 2.2 kVAC / 0.5 kVDC / 0.5 kVDC
Protection class/type	I / IP20 (per EN 60529)
Overvoltage category	III (≤ 2000 m a. s.l.); II (> 2000 m a. s.l.)
Short-circuit-protected	Yes
Parallel/series operation	Yes/Yes
MTBF	> 1.000.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	See instruction leaflet
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input/signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Physical Data/Mechanical Data/Material Data	
Width x Height x Depth (mm)	50 x 130 x 130; Depth from upper-edge of DIN-rail; Height without connector; Height with connector: 169 mm
Mounting type	DIN-35 rail
Weight	1000 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Switched-Mode Power Supply; Pro 2; 3-Phase; 24 VDC / 20 A
2787 Series



Power supply; Pro 2; 3-phase; 24 VDC output voltage; 20 A output current; TopBoost + PowerBoost; communication capability

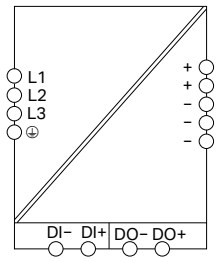
	Item No.	Pack. Unit
	2787-2347	1



Features:
- Power supply unit with TopBoost, PowerBoost and configurable overload behavior
- Configurable digital signal input and output; optical status indication, function buttons
- Communication interface for configuration and monitoring
- Optional connection to IO-Link
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Pluggable connection technology
- Electrically isolated output voltage (SELV/PELV) per EN 61010/UL 61010
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

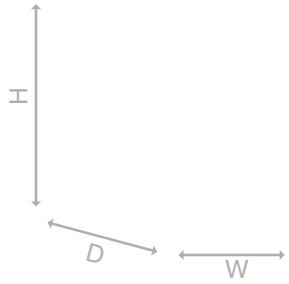
Input	
Nominal input voltage $U_{i\,nom}$	(2/3) x 400 … 500 VAC
Input voltage range	(2/3) x 340 … 550 VAC; 480 … 780 VDC
Input voltage derating	See instruction leaflet
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 3 x 0.8 A (400 VAC; 20 ADC)
Inrush current	≤ 15 A (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (3 x 400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	24 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	20 A (24 VDC)
Nominal output power	480 W
Residual ripple	≤ 70 mV (peak-to-peak)
Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)
Signaling and Communication	
Signaling	Optical status indication (DC-OK; load; warning and error states); digital signal input and output; (DI/DO)
Communication	Communication interface; can be used with WAGO USB communication cable (750-923) or communication module IO-Link (2789-9080)
Efficiency/Power Losses	
Power loss P_l	≤ 3.6 W (stand-by); ≤ 4.4 W (no load); ≤ 21 W (400 VAC; nominal load)
Efficiency (typ.)	95.9 % (400 VAC; 20 A; 25 °C)
Fuse Protection	
Internal fuse	3 x T 2.5 A / 500 VAC
Recommended backup fusing	3 x circuit breaker 6 A, 10 A, 16 A; tripping characteristic: B, C;
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-GND/sec.-GND/ sec.-signal)	3.51 kVDC / 2.2 kVDC / 0.5 kVDC / 0.5 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	III (≤ 2000 m a. s.l.); II (> 2000 m a. s.l.)
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/Yes
MTBF	> 800.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	See instruction leaflet
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input/signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	70 x 169 x 130; height with connector; depth from upper edge of DIN-35 rail
Mounting type	DIN-35 rail
Weight	1400 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Switched-Mode Power Supply; Pro 2; 3-Phase; 24 VDC / 40 A
2787 Series



Power supply; Pro 2; 3-phase; 24 VDC output voltage; 40 A output current; TopBoost + PowerBoost; communication capability

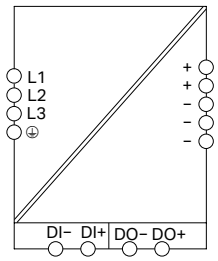
	Item No.	Pack. Unit
	2787-2348	1



Features:
- Power supply unit with TopBoost, PowerBoost and configurable overload behavior
- Configurable digital signal input and output; optical status indication, function buttons
- Communication interface for configuration and monitoring
- Optional connection to IO-Link
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Pluggable connection technology
- Electrically isolated output voltage (SELV/PELV) per EN 61010/UL 61010
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

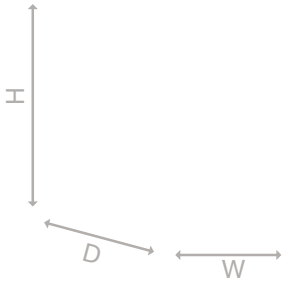
Input	
Nominal input voltage $U_{i\,nom}$	(2/3) x 400 … 500 VAC
Input voltage range	(2/3) x 340 … 550 VAC; 480 … 780 VDC
Input voltage derating	See instruction leaflet
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 3 x 1.7 A (400 VAC; 40 ADC)
Inrush current	≤ 15 A (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (3 x 400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	24 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	40 A (24 VDC)
Nominal output power	960 W
Residual ripple	≤ 70 mV (peak-to-peak)
Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)
Signaling and Communication	
Signaling	Optical status indication (DC-OK; load; warning and error states); digital signal input and output; (DI/DO)
Communication	Communication interface, can be used with WAGO USB Communication Cable (750-923) or IO-Link Communication Module (2789-9080) or Modbus RTU Communication Module (2789-9015)
Efficiency/Power Losses	
Power loss P_l	See manual
Efficiency (typ.)	96.3 % (400 VAC; 40 A; 25 °C)
Fuse Protection	
Internal fuse	3 x T 3.2 A / 500 VAC
Recommended backup fusing	3 x 16 A (for USA/Canada: 3 x 15 A)
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-GND/sec.-GND/sec.-signal)	3.51 kVDC / 2.2 kVDC / 0.5 kVDC / 0.5 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	III (≤ 2000 m a. s.l.); II (> 2000 m a. s.l.)
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/Yes
MTBF	> 800.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	See instruction leaflet
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input/signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	120 x 169 x 130; height with connector; depth from upper edge of DIN-35 rail
Mounting type	DIN-35 rail
Weight	2000 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Power Supply; Pro 2; 3-Phase; 48 VDC / 10 A
2787 Series



Power supply; Pro 2; 3-phase; 48 VDC output voltage; 10 A output current; TopBoost + PowerBoost; communication capability

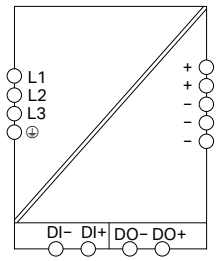
	Item No.	Pack. Unit
	2787-2357	1



Features:
- Power supply with TopBoost, PowerBoost and configurable overload behavior
- Configurable digital signal input and output, optical status indication, function keys
- Communication interface for configuration and monitoring
- Optional connection to IO-Link
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Pluggable connection technology
- Electrically isolated output voltage (SELV/PELV) per EN 61010/UL 61010
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

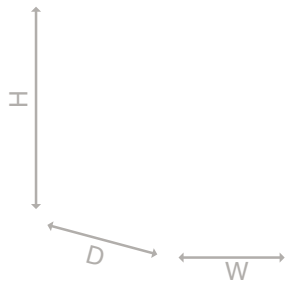
Input	
Nominal input voltage $U_{i\,nom}$	(2/3) x 400 … 500 VAC
Input voltage range	(2/3) x 340 … 550 VAC; 480 … 780 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 3 x 0.8 A (400 VAC; 10 ADC)
Inrush current	≤ 3 x 15 A (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (3 x 400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	48 VDC (SELV) / ≤ 1 %
Output voltage range	48 … 56 VDC (adjustable)
Nominal output current $I_{o\,nom}$	10 A (48 VDC)
Nominal output power	480 W
Residual ripple	≤ 70 mV (peak-to-peak)
Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)
Signaling and Communication	
Signaling	Optical status indication (DC OK; load; warning and error states); Digital signal input and output (DI/DO)
Communication	Communication interface, can be used with WAGO USB Communication Cable (750-923) or IO-Link Communication Module (2789-9080) or Modbus RTU Communication Module (2789-9015)
Efficiency/Power Losses	
Power loss P_l	≤ 3.6 W (standby); ≤ 4.4 W (no load); ≤ 21 W (nominal load)
Efficiency (typ.)	95 %
Fuse Protection	
Internal fuse	2 x T 3.15 A / 500 VAC
Recommended backup fusing	3 x 16 A (for USA/Canada: 3 x 15 A)
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-GND/sec.-GND/ sec.-signal)	3.51 kVAC / 2.2 kVAC / 0.5 kVDC / 0.5 kVDC
Protection class/type	I / IP20 (per EN 60529)
Overvoltage category	III (≤ 2000 m a. s.l.); II (> 2000 m a. s.l.)
Short-circuit-protected	Yes
Parallel/series operation	Yes/Yes
MTBF	> 900.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	See instruction leaflet
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input/signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Physical Data/Mechanical Data/Material Data	
Width x Height x Depth (mm)	70 x 130 x 130; Depth from upper-edge of DIN-rail; Height without connector; Height with connector: 169 mm
Mounting type	DIN-35 rail
Weight	1400 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Power Supply; Pro 2; 3-Phase; 48 VDC / 20 A
2787 Series



Power supply; Pro 2; 3-phase; 48 VDC output voltage; 20 A output current; TopBoost + PowerBoost; communication capability

	Item No.	Pack. Unit
	2787-2358	1



Features:
- Power supply with TopBoost, PowerBoost and configurable overload behavior
- Configurable digital signal input and output, optical status indication, function keys
- Communication interface for configuration and monitoring
- Optional connection to IO-Link
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Pluggable connection technology
- Electrically isolated output voltage (SELV/PELV) per EN 61010/UL 61010
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

Input	
Nominal input voltage $U_{i\,nom}$	(2/3) x 400 … 500 VAC
Input voltage range	(2/3) x 340 … 550 VAC; 480 … 780 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 3 x 1.6 A (400 VAC; 20 ADC)
Inrush current	≤ 3 x 15 A (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (3 x 400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	48 VDC (SELV) / ≤ 1 %
Output voltage range	48 … 56 VDC (adjustable)
Nominal output current $I_{o\,nom}$	20 A (48 VDC)
Nominal output power	960 W
Residual ripple	≤ 70 mV (peak-to-peak)
Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)
Signaling and Communication	
Signaling	Optical status indication (DC OK; load; warning and error states); Digital signal input and output (DI/DO)
Communication	Communication interface, can be used with WAGO USB Communication Cable (750-923) or IO-Link Communication Module (2789-9080) or Modbus RTU Communication Module (2789-9015)
Efficiency/Power Losses	
Power loss P_l	≤ 1.4 W (standby); ≤ 2.4 W (no load); ≤ 40 W (nominal load)
Efficiency (typ.)	96 %
Fuse Protection	
Internal fuse	2 x T 5 A / 500 VAC
Recommended backup fusing	3 x 16 A (for USA/Canada: 3 x 15 A)
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-GND/sec-GND/ sec.-signal)	3.51 kVAC / 2.2 kVAC / 0.5 kVDC / 0.5 kVDC
Protection class/type	I / IP20 (per EN 60529)
Overvoltage category	III (≤ 2000 m a. s.l.); II (> 2000 m a. s.l.)
Short-circuit-protected	Yes
Parallel/series operation	Yes/Yes
MTBF	> 800.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	See instruction leaflet
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®/Push-in CAGE CLAMP®
Input/signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Physical Data/Mechanical Data/Material Data	
Width x Height x Depth (mm)	120 x 130 x 130; Depth from upper-edge of DIN-rail; Height without connector; Height with connector: 169 mm
Mounting type	DIN-35 rail
Weight	2000 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Accessories for Pro 2 Power Supplies
Modbus® Communication Module

Communication module; MODBUS TCP/UDP; RJ45; communication capability

	Item No.	Pack. Unit
	2789-9052	1

Features:
- This communication module snaps onto a Pro 2 Power Supply's communication interface.
- Modbus TCP/UDP
- Suitable for monitoring the subordinate power supply
- Function blocks for standard control systems available upon request
- Integrated ETHERNET switch for convenient wiring
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

Signaling and Communication	
Signaling	LED red (ERR); LED green (COM OK); ETHERNET ports: LED green (LNK/ACTx); LED orange (SPEEDx)
Communication	Modbus (TCP, UDP)
ETHERNET protocols	HTTP(S); BootP; DHCP; SNTP
Configuration options	Web-Based Management
Visualization	Web Visu
Transmission rate	ETHERNET: 10/100 Mbit/s
Safety and Protection	
Isolation	Functional insulation 500 V
Protection class	III
Protection type	IP20 (per EN 60529)
Environmental Conditions	
Surrounding air temperature (operation)	–25 … +55 °C
Relative humidity	5 … 96 % (no condensation permissible)
Connection Data	
Connection technology	Modbus TCP/UDP: 2 x RJ-45
Transmission medium	ETHERNET: twisted pair, S/UTP; 100 Ω; cat. 5
Cable length	≤ 100 m
Physical Data	
Width	35 mm
Height	80 mm
Depth	22 mm
Mechanical Data	
Mounting type	Snaps onto a Pro 2 Power Supply's communication interface (X4)
Weight	45 g
Standards and Specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Accessories for Pro 2 Power Supplies
Modbus RTU Communication Module
2789 Series

Communication module; Modbus RTU; RJ45; communication capability		
	Item No.	Pack. Unit
	2789-9015	1

Features:
- Communication module snaps onto Pro 2 Power Supplies' communication interface
- Modbus RTU (RS-485)
- Suitable for monitoring the subordinate power supply
- Function blocks for standard control systems available upon request
- Pluggable connection technology
- Marker slot for WAGO Marker Cards (WMB) and WAGO Marking Strips
- Requires RJ-45 terminating resistor (120 Ω) for long cables (2789-9915)

Input	
Nominal input voltage $U_{i\,nom}$	5 VDC (SELV)
Input voltage range	4.5 … 5.5 VDC (SELV)
Input current I_i	≤ 40 mA
Signaling and Communication	
Signaling	1 green LED (PWR); 1 yellow LED (RxD); 1 yellow LED (TxD)
Communication	Modbus RTU via RS-485
Baud rate	4.8 … 115.2 kBd
Number of devices (max.)	247
Safety and Protection/Environmental Requirements	
Test voltage (input/output)	2 kVAC; 50 Hz; 1 min
Test voltage (input/output/shield)	1 kVAC; 50 Hz; 1 min
Overvoltage category	III
Pollution degree	2
Protection class	III
Insulation type	Functional insulation
Protection class	IP20
Surrounding air temperature (operation)	–25 … +70 °C
Surrounding air temperature (storage)	–40 … +85 °C
Relative humidity	5 … 95 % (non-condensing)
Operating altitude (max.)	5000 m
Connection Data	
Connection technology	2 x RJ-45
Transmission medium	Shielded copper cable
Physical Data/Mechanical Data/Material Data	
Width x Height x Depth (mm)	35 x 80 x 22
Mounting type	Snaps onto a Pro 2 Power Supply's communication interface (X4)
Weight	35 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Accessories for Pro 2 Power Supplies
Communication module IO-Link

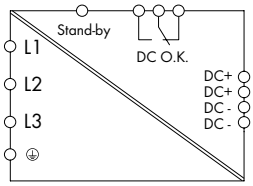
Communication module; IO-Link; communication capability

	Item No.	Pack. Unit
	2789-9080	1

Features:
- Communication module to snap onto communication interface of Pro 2 power supply
- IO-Link device; supports IO-Link specification 1.1
- Suitable for configuring and monitoring the subordinate power supply
- Function block for current control systems available on request
- Pluggable connection technology
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

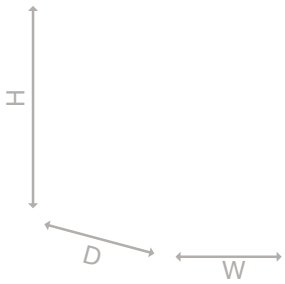
Operating Data	
Supply voltage	DC 24 V (SELV; via IO-Link Master)
Current consumption	≤ 15 mA
Signaling and Communication	
Signaling	LED red (ERR): LED green (COM)
Communication	IO-Link
IO-Link version	1.1
Baud rate	230.4 kbit/s (COM 3)
Data width	5 bytes
Data update rate	25 ms
Safety and Protection/Environmental Requirements	
Isolation	0.63 kVDC
Protection class	IP20 (per EN 60529)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	5 … 96 % (no condensation permissible)
Connection Data	
Connection technology	CAGE CLAMP®
Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Cable length	≤ 20 m
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	35 x 95 x 22; height including connector; depth in mounted position
Mounting type	Snap onto communication interface (X4) of Pro 2 power supply
Weight	35 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Switched-Mode Power Supply; Pro; 3-Phase; 24 VDC / 10 A
787 Series



Switched-mode power supply; Pro; 3-phase; 24 VDC output voltage; 10 A output current; TopBoost + PowerBoost; DC OK contact

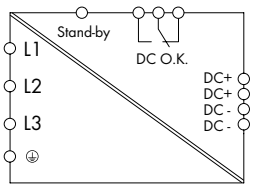
Item No.	Pack. Unit
787-840	1



Features:
- Switched-mode power supply with PowerBoost and TopBoost
- Switch off the output and minimize power consumption via stand-by input
- Output monitoring via DC OK contact
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1; PELV per EN 60204

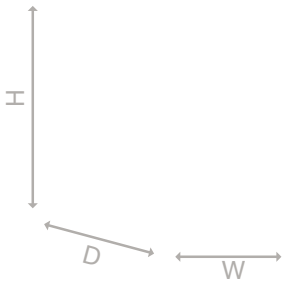
Input	
Nominal input voltage $U_{i\,nom}$	(2 / 3) x 400 … 500 VAC
Input voltage range	(2 / 3) x 340 … 550 VAC; 480 … 780 VDC
Nominal mains frequency range	50 … 60 Hz; 0 Hz
Input current I_i	≤ 3 x 0.6 A (340 VAC; 10 ADC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 22 ms (3 x 400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	22.8 … 28.8 VDC (adjustable)
Nominal output current $I_{o\,nom}$	10 A (24 VDC)
Nominal output power	240 W
Residual ripple	≤ 70 mV (peak-to-peak)
Overload behavior	TopBoost/PowerBoost/Constant current mode
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x Error LED (red); 1 x Stand-by input; 1 x DC OK relay contact (changeover contact)
Efficiency/Power Losses	
Power loss P_l	≤ 7.8 W (no load); ≤ 19.9 W (nominal load)
Efficiency (typ.)	91.7 %
Fuse Protection	
Internal fuse	3 x T 2.5 A / 440 VAC
Recommended backup fusing	3 x Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C; Alternative: motor circuit breaker; Setpoint: 1.6 A; Setting range: 1.6 … 2.5 A
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-GND/sec.-GND)	4.242 kVDC / 2.2 kVDC / 0.7 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	–3 %/K (> +50 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
LED indication (solid/fine-stranded/AWG)	0.08 … 0.5 mm² / 0.08 … 0.5 mm² / 28 … 20 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	57 x 163 x 179; height including connector; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	1000 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; EN 61204-3; EN 61558-2-16; UL 60950; UL 508

Switched-Mode Power Supply; Pro; 3-Phase; 24 VDC / 20 A
787 Series



Switched-mode power supply; Pro; 3-phase; 24 VDC output voltage; 10 A output current; TopBoost + PowerBoost; DC OK contact

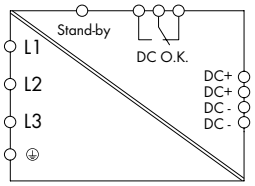
	Item No.	Pack. Unit
	787-842	1



Features:
- Switched-mode power supply with PowerBoost and TopBoost
- Switch off the output and minimize power consumption via stand-by input
- Output monitoring via DC OK contact
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1; PELV per EN 60204

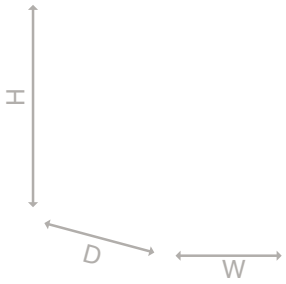
Input	
Nominal input voltage $U_{i\,nom}$	(2 / 3) x 400 … 500 VAC
Input voltage range	(2 / 3) x 340 … 550 VAC; 480 … 780 VDC
Nominal mains frequency range	50 … 60 Hz; 0 Hz
Input current I_i	≤ 3 x 1.1 A (340 VAC; 20 ADC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 13 ms (3 x 400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	22.8 … 28.8 VDC (adjustable)
Nominal output current $I_{o\,nom}$	20 A (24 VDC)
Nominal output power	480 W
Residual ripple	≤ 70 mV (peak-to-peak)
Overload behavior	TopBoost/PowerBoost/Constant current mode
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x Error LED (red); 1 x Stand-by input; 1 x DC OK relay contact (changeover contact)
Efficiency/Power Losses	
Power loss P_l	≤ 8.3 W (no load); ≤ 34.1 W (nominal load)
Efficiency (typ.)	92.9 %
Fuse Protection	
Internal fuse	3 x T 2.5 A / 440 VAC
Recommended backup fusing	3 x Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C; Alternative: motor circuit breaker; Setpoint: 2.5 A; Setting range: 2.5 … 4 A
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-GND/sec.-GND)	4.242 kVDC / 2.2 kVDC / 0.7 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	–3 %/K (> +50 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
LED indication (solid/fine-stranded/AWG)	0.08 … 0.5 mm² / 0.08 … 0.5 mm² / 28 … 20 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	77 x 171 x 179; height including connector; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	1300 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; EN 61204-3; EN 61558-2-16; UL 60950; UL 508

Switched-Mode Power Supply; Pro; 3-Phase; 24 VDC / 40 A
787 Series



Switched-mode power supply; Pro; 3-phase; 24 VDC output voltage; 40 A output current; TopBoost + PowerBoost; DC OK contact

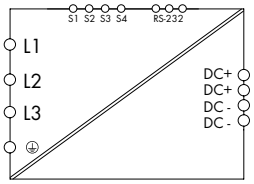
	Item No.	Pack. Unit
	787-844	1
with lateral DIN-rail support	787-844/000-002	



Features:
- Switched-mode power supply with PowerBoost and TopBoost
- Switch off the output and minimize power consumption via stand-by input
- Output monitoring via DC OK contact
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1; PELV per EN 60204

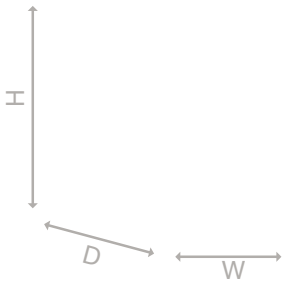
Input	
Nominal input voltage $U_{i\,nom}$	(2 / 3) x 400 … 500 VAC
Input voltage range	(2 / 3) x 340 … 550 VAC; 480 … 780 VDC
Nominal mains frequency range	50 … 60 Hz; 0 Hz
Input current I_i	≤ 3 x 2 A (340 VAC; 40 ADC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 15 ms (3 x 400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	22.8 … 28.8 VDC (adjustable)
Nominal output current $I_{o\,nom}$	40 A (24 VDC)
Nominal output power	960 W
Residual ripple	≤ 70 mV (peak-to-peak)
Overload behavior	TopBoost/PowerBoost/Constant current mode
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x Error LED (red); 1 x Stand-by input; 1 x DC OK relay contact (changeover contact)
Efficiency/Power Losses	
Power loss P_l	≤ 7 W (no load); ≤ 61.5 W (nominal load)
Efficiency (typ.)	93.6 %
Fuse Protection	
Internal fuse	3 x T 3.2 A / 440 VAC
Recommended backup fusing	3 x Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C; Alternative: motor circuit breaker; Setpoint: 3.2 A; Setting range: 2.5 … 4 A
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-GND/sec.-GND)	4.242 kVDC / 2.2 kVDC / 0.7 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +55 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	–5 %/K (> +45 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
LED indication (solid/fine-stranded/AWG)	0.08 … 0.5 mm² / 0.08 … 0.5 mm² / 28 … 20 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	128 x 171 x 205; height including connector; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	2500 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; EN 61204-3; EN 61558-2-16; UL 60950; UL 508

Switched-Mode Power Supply; Pro; 3-Phase; 24 VDC / 10 A
787 Series



Switched-mode power supply; Pro; 3-phase; 24 VDC output voltage; 10 A output current; TopBoost + PowerBoost; LineMonitor; DC OK signal

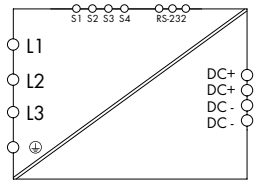
	Item No.	Pack. Unit
	787-850	1



Features:
- Switched-mode power supply with PowerBoost and TopBoost
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1; PELV per EN 60204
- LineMonitor for parameter setting and monitoring
- RS-232 interface
- Four signal outputs

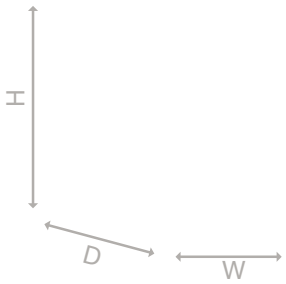
Input	
Nominal input voltage $U_{i\,nom}$	(2 / 3) x 400 … 500 VAC
Input voltage range	(2 / 3) x 340 … 550 VAC; 480 … 780 VDC
Nominal mains frequency range	50 … 60 Hz; 0 Hz
Input current I_i	≤ 3 x 0.6 A (340 VAC; 10 ADC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Passive (adjustable via software/display)
Mains failure hold-up time	≥ 22 ms (3 x 400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	22.8 … 28.8 VDC (adjustable)
Nominal output current $I_{o\,nom}$	10 A (24 VDC)
Nominal output power	240 W
Residual ripple	≤ 70 mV (peak-to-peak)
Overload behavior	Adjustable (constant current/fuse mode)
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x Warning LED (yellow); 1 x Error LED (red); LCD; 4 x Signal output (24 VDC; max. 25 mA); 1 x RS-232 interface
Communication	RS-232 interface
Efficiency/Power Losses	
Power loss P_l	≤ 7.8 W (no load); ≤ 19.9 W (nominal load)
Efficiency (typ.)	91.7 %
Fuse Protection	
Internal fuse	3 x T 2.5 A / 440 VAC
Recommended backup fusing	3 x Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C; Alternative: motor circuit breaker; Setpoint: 1.6 A; Setting range: 1.6 … 2.5 A
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-GND/sec.-GND)	4.242 kVDC / 2.2 kVDC / 0.7 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	–3 %/K (> +50 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
LED indication (solid/fine-stranded/AWG)	0.08 … 0.5 mm² / 0.08 … 0.5 mm² / 28 … 20 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	57 x 163 x 179; height including connector; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	1000 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; EN 61204-3; EN 61558-2-16; UL 60950; UL 508

Switched-Mode Power Supply; Pro; 3-Phase; 24 VDC / 20 A
787 Series



Primär getaktete Stromversorgung; Pro; 3-phasig; Ausgangsspannung DC 24 V; Ausgangsstrom 20 A; TopBoost + PowerBoost; LineMonitor; DC-OK-Signal

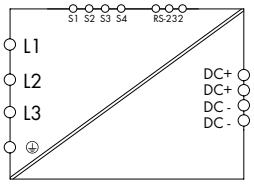
	Item No.	Pack. Unit
	787-852	1



Features:
- Switched-mode power supply with PowerBoost and TopBoost
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1; PELV per EN 60204
- LineMonitor for parameter setting and monitoring
- RS-232 interface
- Four signal outputs

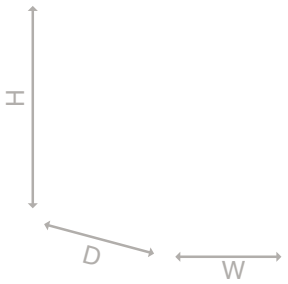
Input	
Nominal input voltage $U_{i\,nom}$	(2 / 3) x 400 … 500 VAC
Input voltage range	(2 / 3) x 340 … 550 VAC; 480 … 780 VDC
Nominal mains frequency range	50 … 60 Hz; 0 Hz
Input current I_i	≤ 3 x 1.1 A (340 VAC; 20 ADC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Passive (adjustable via software/display)
Mains failure hold-up time	≥ 13 ms (3 x 400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	22.8 … 28.8 VDC (adjustable)
Nominal output current $I_{o\,nom}$	20 A (24 VDC)
Nominal output power	480 W
Residual ripple	≤ 70 mV (peak-to-peak)
Overload behavior	Adjustable (constant current/fuse mode)
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x Warning LED (yellow); 1 x Error LED (red); LCD; 4 x Signal output (24 VDC; max. 25 mA); 1 x RS-232 interface
Communication	RS-232 interface
Efficiency/Power Losses	
Power loss P_l	≤ 8.3 W (no load); ≤ 34.1 W (nominal load)
Efficiency (typ.)	92.9 %
Fuse Protection	
Internal fuse	3 x T 2.5 A / 440 VAC
Recommended backup fusing	3 x Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C; Alternative: motor circuit breaker; Setpoint: 2.5 A; Setting range: 2.5 … 4 A
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-GND/sec.-GND)	4.242 kVDC / 2.2 kVDC / 0.7 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	−25 … +70 °C (device starts at −40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	−3 %/K (> +50 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
LED indication (solid/fine-stranded/AWG)	0.08 … 0.5 mm² / 0.08 … 0.5 mm² / 28 … 20 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	77 x 171 x 179; height including connector; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	1300 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; EN 61204-3; EN 61558-2-16; UL 60950; UL 508

Switched-Mode Power Supply; Pro; 3-Phase; 24 VDC / 40 A
787 Series



Switched-mode power supply; Pro; 3-phase; 24 VDC output voltage; 40 A output current; TopBoost + PowerBoost; LineMonitor; DC OK signal

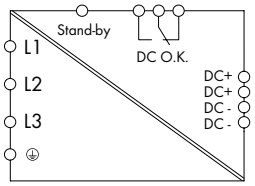
	Item No.	Pack. Unit
	787-854	1



Features:
- Switched-mode power supply with PowerBoost and TopBoost
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1; PELV per EN 60204
- LineMonitor for parameter setting and monitoring
- RS-232 interface
- Four signal outputs

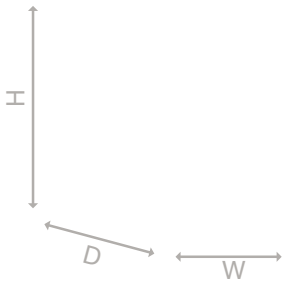
Input	
Nominal input voltage $U_{i\,nom}$	(2 / 3) x 400 … 500 VAC
Input voltage range	(2 / 3) x 340 … 550 VAC; 480 … 780 VDC
Nominal mains frequency range	50 … 60 Hz; 0 Hz
Input current I_i	≤ 3 x 2 A (340 VAC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Passive (adjustable via software/display)
Mains failure hold-up time	≥ 15 ms (3 x 400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	22.8 … 28.8 VDC (adjustable)
Nominal output current $I_{o\,nom}$	40 A (24 VDC)
Nominal output power	960 W
Residual ripple	≤ 70 mV (peak-to-peak)
Overload behavior	Adjustable (constant current/fuse mode)
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x Warning LED (yellow); 1 x Error LED (red); LCD; 4 x Signal output (24 VDC; max. 25 mA); 1 x RS-232 interface
Communication	RS-232 interface
Efficiency/Power Losses	
Power loss P_l	≤ 7 W (no load); ≤ 61.5 W (nominal load)
Efficiency (typ.)	93.6 %
Fuse Protection	
Internal fuse	3 x T 3.2 A / 440 VAC
Recommended backup fusing	3 x Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C; Alternative: motor circuit breaker; Setpoint: 3.2 A; Setting range: 2.5 … 4 A
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-GND/sec.-GND)	4.242 kVDC / 2.2 kVDC / 0.7 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +55 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	–5 %/K (> +45 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
LED indication (solid/fine-stranded/AWG)	0.08 … 0.5 mm² / 0.08 … 0.5 mm² / 28 … 20 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	128 x 171 x 205; height including connector; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	2300 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; EN 61204-3; EN 61558-2-16; UL 60950; UL 508

Switched-Mode Power Supply; Pro; 3-Phase; 48 VDC / 10 A
787 Series



Switched-Mode Power Supply; Pro; 3-phase; Output voltage: 48 VDC; Output current: 10 A; TopBoost + PowerBoost; DC OK contact

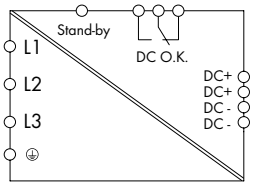
	Item No.	Pack. Unit
	787-845	1



Features:
- Switched-mode power supply with PowerBoost and TopBoost
- Switch off the output and minimize power consumption via stand-by input
- Output monitoring via DC OK contact
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1; PELV per EN 60204

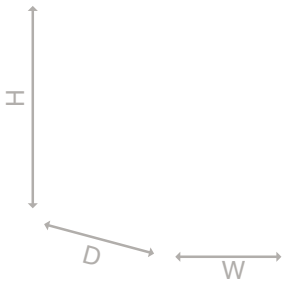
Input	
Nominal input voltage $U_{i\,nom}$	(2 / 3) x 400 … 500 VAC
Input voltage range	(2 / 3) x 340 … 550 VAC; 480 … 780 VDC
Nominal mains frequency range	50 … 60 Hz; 0 Hz
Input current I_i	≤ 3 x 1.1 A (340 VAC; 10 ADC)
Inrush current	≤ 30 A (peak)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 12 ms (3 x 400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	48 VDC (SELV) / ≤ 1 %
Output voltage range	39 … 53 VDC (adjustable)
Nominal output current $I_{o\,nom}$	10 A (48 VDC)
Nominal output power	480 W
Residual ripple	≤ 70 mV (peak-to-peak)
Overload behavior	TopBoost/PowerBoost/Constant current mode
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x Error LED (red); 1 x Stand-by input; 1 x DC OK relay contact (changeover contact)
Efficiency/Power Losses	
Power loss P_l	≤ 0.8 W (stand-by); ≤ 8.2 W (no load); ≤ 38 W (nominal load)
Efficiency (typ.)	93 %
Fuse Protection	
Internal fuse	3 x T 2.5 A / 440 VAC
Recommended backup fusing	3 x Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C; Alternative: motor circuit breaker; Setpoint: 2.5 A; Setting range: 2.5 … 4 A
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-GND/sec.-GND)	4.242 kVDC / 2.2 kVDC / 0.7 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	–3 %/K (> +50 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
LED indication (solid/fine-stranded/AWG)	0.08 … 0.5 mm² / 0.08 … 0.5 mm² / 28 … 20 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	77 x 171 x 179; height including connector; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	1883.3 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; EN 61204-3; EN 61558-2-16; UL 60950; UL 508

Switched-Mode Power Supply; Pro; 3-Phase; 48 VDC / 20 A
787 Series



Switched-Mode Power Supply; Pro; 3-phase; Output voltage: 48 VDC; Output current: 20 A; TopBoost + PowerBoost; DC OK contact

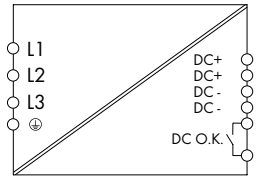
	Item No.	Pack. Unit
	787-847	1



Features:
- Switched-mode power supply with PowerBoost and TopBoost
- Switch off the output and minimize power consumption via stand-by input
- Output monitoring via DC OK contact
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1; PELV per EN 60204

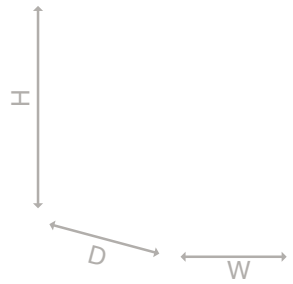
Input	
Nominal input voltage $U_{i\,nom}$	(2 / 3) x 400 … 500 VAC
Input voltage range	(2 / 3) x 340 … 550 VAC; 480 … 780 VDC
Nominal mains frequency range	50 … 60 Hz; 0 Hz
Input current I_i	≤ 3 x 2 A (340 VAC; 20 ADC)
Inrush current	≤ 30 A (peak)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 15 ms (3 x 400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	48 VDC (SELV) / ≤ 1 %
Output voltage range	39 … 53 VDC (adjustable)
Nominal output current $I_{o\,nom}$	20 A (48 VDC)
Nominal output power	960 W
Residual ripple	≤ 70 mV (peak-to-peak)
Overload behavior	TopBoost/PowerBoost/Constant current mode
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x Error LED (red); 1 x Stand-by input; 1 x DC OK relay contact (changeover contact)
Efficiency/Power Losses	
Power loss P_l	≤ 0.8 W (stand-by); ≤ 5.2 W (no load); ≤ 59.2 W (nominal load)
Efficiency (typ.)	94.4 %
Fuse Protection	
Internal fuse	3 x T 3.2 A / 440 VAC
Recommended backup fusing	3 x Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C; Alternative: motor circuit breaker; Setpoint: 3.2 A; Setting range: 2.5 … 4 A
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-GND/sec.-GND)	4.242 kVDC / 2.2 kVDC / 0.7 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C (device starts at –40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	–5 %/K (> +45 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
LED indication (solid/fine-stranded/AWG)	0.08 … 0.5 mm² / 0.08 … 0.5 mm² / 28 … 20 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	128 x 171 x 205; height including connector; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	3270 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; EN 61204-3; EN 61558-2-16; UL 60950; UL 508

Switched-Mode Power Supply; Classic; 3-Phase; 24 VDC / 10 A
787 Series



Switched-Mode Power Supply; Classic; 3-phase; Output voltage: 24 VDC; Output current: 10 A; TopBoost; DC OK signal

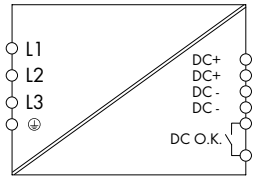
	Item No.	Pack. Unit
	787-1640	1



Features:
- Switched-mode power supply with TopBoost, enabling secondary-side protection via circuit breakers
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Contact (DC O K)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1; PELV per EN 60204

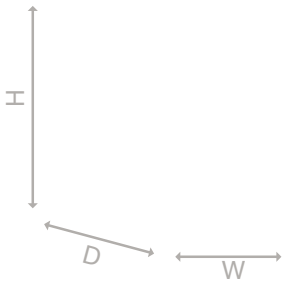
Input	
Nominal input voltage $U_{i\,nom}$	(2/3) x 400 … 500 VAC
Input voltage range	(2/3) x 320 … 575 VAC; 450 … 800 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 3 x 0.73 A (400 VAC); ≤ 3 x 0.66 A (500 VAC)
Inrush current	≤ 30 A (NTC)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 50 ms (500 VAC); > 21 ms (400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	23 … 28.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	10 A (24 VDC)
Nominal output power	240 W
Residual ripple	≤ 50 mV (peak-to-peak)
Overload behavior	Constant current
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x DC OK contact (make contact; max. 30 VAC/DC; 1 A)
Efficiency/Power Losses	
Power loss P_l	≤ 2.1 W (no load); ≤ 27.9 W (400 VAC; nominal load)
Power loss (max.) $P_{l\,max.}$	28.3 W (500 VAC / 24 VDC; 10 A)
Efficiency (typ.)	90 %
Fuse Protection	
Internal fuse	No
Required backup fusing	3 x Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B, C, max. 20 A; Alternative: motor circuit breaker; External DC fuse required for DC input voltage
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-GND/sec.-GND/pri.-sec.)	2.2 kVDC / 0.7 kVDC / 4.242 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	−25 … +70 °C (device starts at −40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	−2.5 %/K (> +55 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output/signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	55 x 127 x 171; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	1000 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950-1; EN 61204-3; UL 60950-1; UL 508; DNV GL

Switched-Mode Power Supply; Classic; 3-Phase; 24 VDC / 20 A
787 Series



Switched-Mode Power Supply; Classic; 3-phase; Output voltage: 24 VDC; Output current: 20 A; TopBoost; DC OK signal

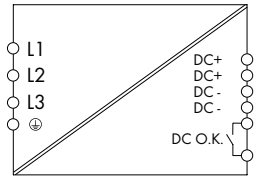
	Item No.	Pack. Unit
	787-1642	1



Features:
- Switched-mode power supply with TopBoost, enabling secondary-side protection via circuit breakers
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Contact (DC O K)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1; PELV per EN 60204

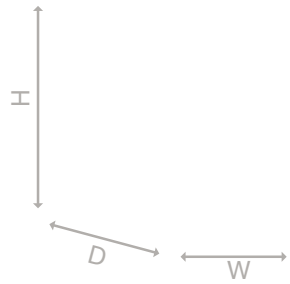
Input	
Nominal input voltage $U_{i\,nom}$	(2/3) x 400 … 500 VAC
Input voltage range	(2/3) x 320 … 575 VAC; 450 … 800 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 3 x 1.21 A (400 VAC); ≤ 3 x 1.03 A (500 VAC)
Inrush current	≤ 30 A (NTC)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 25 ms (500 VAC); > 15 ms (400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	23 … 28.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	20 A (24 VDC)
Nominal output power	480 W
Residual ripple	≤ 15 mV (peak-to-peak)
Overload behavior	Constant current
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x DC OK contact (make contact; max. 30 VAC/DC; 1 A)
Efficiency/Power Losses	
Power loss P_l	≤ 5.8 W (no load); ≤ 42.8 W (400 VAC; nominal load)
Power loss (max.) $P_{l\,max.}$	47.6 W (500 VAC / 24 VDC; 20 A)
Efficiency (typ.)	92 %
Fuse Protection	
Internal fuse	No
Required backup fusing	3 x Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B, C, max. 20 A; Alternative: motor circuit breaker; External DC fuse required for DC input voltage
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-GND/sec.-GND/pri.-sec.)	2.2 kVDC / 0.7 kVDC / 4.242 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	−25 … +70 °C (device starts at −40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	−2.5 %/K (> +55 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input/signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	80 x 127 x 180; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	1623 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950-1; EN 61204-3; UL 60950-1; UL 508; DNV GL

Switched-Mode Power Supply; Classic; 3-Phase; 24 VDC / 40 A
787 Series



Switched-Mode Power Supply; Classic; 3-phase; Output voltage: 24 VDC; Output current: 40 A; TopBoost; DC OK signal

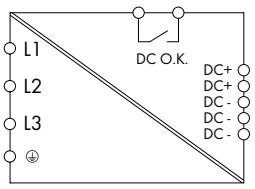
Item No.	Pack. Unit
787-1644	1



Features:
- Switched-mode power supply with TopBoost, enabling secondary-side protection via circuit breakers
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Contact (DC O K)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1; PELV per EN 60204

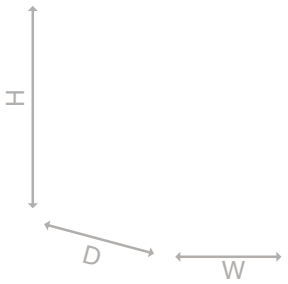
Input	
Nominal input voltage $U_{i\,nom}$	(2/3) x 400 … 500 VAC
Input voltage range	(2/3) x 320 … 575 VAC; 450 … 800 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 3 x 2.15 A (400 VAC); ≤ 3 x 1.82 A (500 VAC)
Inrush current	≤ 30 A (NTC)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 25 ms (500 VAC); > 15 ms (400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	23 … 28.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	40 A (24 VDC)
Nominal output power	960 W
Residual ripple	≤ 30 mV (peak-to-peak)
Overload behavior	Constant current
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x DC OK contact (make contact; max. 30 VAC/DC; 1 A)
Efficiency/Power Losses	
Power loss P_l	≤ 4.2 W (no load); ≤ 83.9 W (400 VAC; nominal load)
Power loss (max.) $P_{l\,max.}$	83.9 W (500 VAC / 24 VDC; 40 A)
Efficiency (typ.)	92 %
Fuse Protection	
Internal fuse	No
Required backup fusing	3 x Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B, C, max. 20 A; Alternative: motor circuit breaker; External DC fuse required for DC input voltage
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-GND/sec.-GND/pri.-sec.)	2.2 kVDC / 0.7 kVDC / 4.242 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	−25 … +70 °C (device starts at −40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	−2.5 %/K (> +55 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input/signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	126 x 127 x 198; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	2800 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950-1; EN 61204-3; UL 60950-1; UL 508; DNV GL

Switched-Mode Power Supply; Eco; 3-Phase; 24 VDC / 6.25 A
787 Series



Switched-Mode Power Supply; Eco; 3-phase; Output voltage: 24 VDC; Output current: 6.25 A; DC OK signal

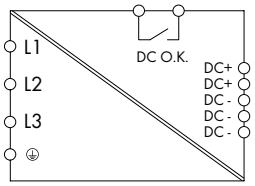
	Item No.	Pack. Unit
	787-738	1



Features:
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Fast and tool-free termination via lever-actuated PCB terminal blocks
- Bounce-free switching signal (DC OK) via optocoupler
- Parallel operation
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1; PELV per EN 60204

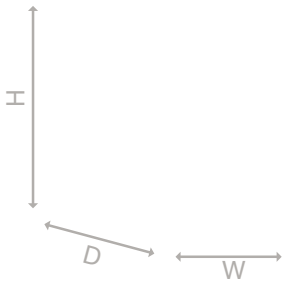
Input	
Nominal input voltage $U_{i\,nom}$	(2 / 3) x 400 … 500 VAC
Input voltage range	(2 / 3) x 360 … 575 VAC; 500 … 800 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 3 x 0.6 A (400 VAC; 6.25 ADC)
Inrush current	≤ 25 A
Power factor	≥ 0.5
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 17 ms (3 x 400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	22 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	6.25 A (24 VDC)
Nominal output power	150 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.15 … 1.4 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x Overload LED (red); 1 x DC OK signal output (optocoupler as make contact; max. 31.2 V; 20 mA)
Efficiency/Power Losses	
Power loss P_l	≤ 18.5 W
Power loss (max.) $P_{l\,max.}$	20 W
Efficiency (typ.)	87 %
Fuse Protection	
Internal fuse	3 x T 2 A / 250 VAC
Recommended backup fusing	3 x Circuit breaker ≥ 6 A; Tripping characteristic: B or C; Alternative: motor circuit breaker
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-GND/sec.-GND/sec.-signal/ pri.-sec.)	2.2 kVDC / 0.7 kVDC / 0.7 kVDC / 4.242 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 250.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	10 … 95 % (no condensation permissible)
Derating	–2.5 %/K (> +50 °C; 230 VAC)
Pollution degree	2
Connection Data	
Connection technology	Push-in CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.5 … 0 mm² / 0.5 … 0 mm² / 20 … 10 AWG
LED indication (solid/fine-stranded/AWG)	0.2 … 1.5 mm² / 0.2 … 1.5 mm² / 24 … 14 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	50 130 x 92; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	844 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 62368-1; EN 61204-3 (Class A); UL 60950-1; UL 508

Switched-Mode Power Supply; Eco; 3-Phase; 4 VDC / 10 A
787 Series



Switched-Mode Power Supply; Eco; 3-phase; Output voltage: 24 VDC; Output current: 10 A; DC OK signal

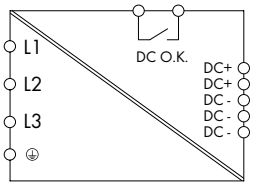
	Item No.	Pack. Unit
	787-740	1



Features:
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Fast and tool-free termination via lever-actuated PCB terminal blocks
- Bounce-free switching signal (DC OK) via optocoupler
- Parallel operation
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1; PELV per EN 60204

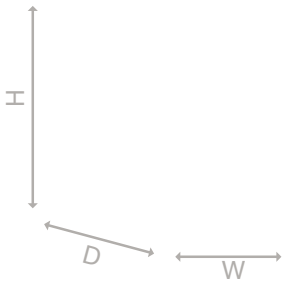
Input	
Nominal input voltage $U_{i\,nom}$	(2 / 3) x 400 … 500 VAC
Input voltage range	(2 / 3) x 360 … 575 VAC; 500 … 650 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 3 x 1.2 A (400 VAC; 10 ADC)
Inrush current	≤ 25 A
Power factor	≥ 0.5
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 17 ms (3 x 400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	22 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	10 A (24 VDC)
Nominal output power	240 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.15 … 1.4 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x Overload LED (red); 1 x DC OK signal output (optocoupler as make contact; max. 31.2 V; 20 mA)
Efficiency/Power Losses	
Power loss P_l	≤ 32.5 W
Power loss (max.) $P_{l\,max.}$	36 W
Efficiency (typ.)	89 %
Fuse Protection	
Internal fuse	3 x T 2 A / 250 VAC
Recommended backup fusing	3 x Circuit breaker ≥ 6 A; Tripping characteristic: B or C; Alternative: motor circuit breaker
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-GND/sec.-GND/sec.-signal/pri.-sec.)	2.2 kVDC / 0.7 kVDC / 0.7 kVDC / 4.242 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 250.000 h (per IEC 61709)
Surrounding air temperature (operation)	−25 … +70 °C
Relative humidity	10 … 95 % (no condensation permissible)
Derating	−1.25 %/K (> +50 °C; 230 VAC)
Pollution degree	2
Connection Data	
Connection technology	Push-in CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.5 … 0 mm² / 0.5 … 0 mm² / 20 … 10 AWG
LED indication (solid/fine-stranded/AWG)	0.2 … 1.5 mm² / 0.2 … 1.5 mm² / 24 … 14 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	65 x 130 x 130; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	1265 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 62368-1; EN 61204-3 (Class A); UL 60950-1; UL 508

Switched-Mode Power Supply; Eco; 3-Phase; 24 VDC / 20 A
787 Series



Switched-Mode Power Supply; Eco; 3-phase; Output voltage: 24 VDC; Output current: 20 A; DC OK signal

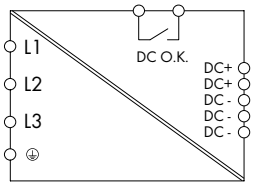
Item No.	Pack. Unit
787-742	1



Features:
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Fast and tool-free termination via lever-actuated PCB terminal blocks
- Bounce-free switching signal (DC OK) via optocoupler
- Parallel operation
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1; PELV per EN 60204

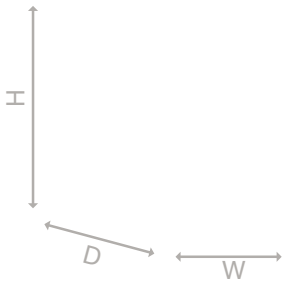
Input	
Nominal input voltage $U_{i\,nom}$	(2 / 3) x 400 … 500 VAC
Input voltage range	(2 / 3) x 360 … 575 VAC; 500 … 800 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 3 x 2 A (400 VAC; 20 ADC)
Inrush current	≤ 30 A
Power factor	≥ 0.5
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 17 ms (3 x 400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	22 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	20 A (24 VDC)
Nominal output power	480 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.15 … 1.4 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x Overload LED (red); 1 x DC OK signal output (optocoupler as make contact; max. 31.2 V; 20 mA)
Efficiency/Power Losses	
Power loss P_l	≤ 50 W
Power loss (max.) $P_{l\,max.}$	55 W
Efficiency (typ.)	90 %
Fuse Protection	
Internal fuse	3 x T 5 A / 250 VAC
Recommended backup fusing	3 x Circuit breaker ≥ 6 A; Tripping characteristic: B or C; Alternative: motor circuit breaker
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-GND/sec.-GND/sec.-signal/ pri.-sec.)	2.2 kVDC / 0.7 kVDC / 0.7 kVDC / 4.242 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 250.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	10 … 95 % (no condensation permissible)
Derating	–2 %/K (> +50 °C; 230 VAC)
Pollution degree	2
Connection Data	
Connection technology	Push-in CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.5 … 0 mm² / 0.5 … 0 mm² / 20 … 10 AWG
LED indication (solid/fine-stranded/AWG)	0.2 … 1.5 mm² / 0.2 … 1.5 mm² / 24 … 14 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	110 x 130 x 151; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	1930 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 62368-1; EN 61204-3 (Class A); UL 60950-1; UL 508

Switched-Mode Power Supply; Eco; 3-Phase; 24 VDC / 20 A
787 Series



Power supply unit; Eco; 3-phase; 24 VDC output voltage; 20 A output current; DC OK contact

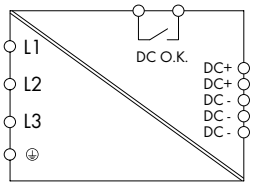
	Item No.	Pack. Unit
	787-2742	1



Features:
- Economical power supply for standard applications
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Fast and tool-free termination via lever-actuated terminals with push-in connection technology
- DC OK signal output
- Parallel operation
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204

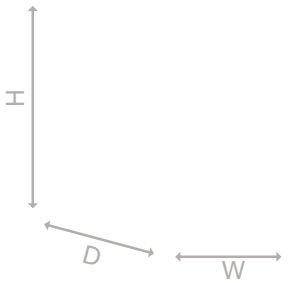
Input	
Nominal input voltage $U_{i\,nom}$	(2 / 3) x 400 … 480 VAC
Input voltage range	(2 / 3) x 325 … 575 VAC; 560 … 700 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 3 x 1.2 A (AC 400 V)
Inrush current	≤ 30 A (AC 400 V)
Power factor	≥ 0.7 (AC 400 V)
Power factor correction (PFC)	passiv
Mains failure hold-up time	≥ 10 ms (3 x AC 400 V)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	22 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	20 A (24 VDC)
Nominal output power	480 W
Residual ripple	≤ 150 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.05 … 1.4 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x Overload LED (red); 1 x DC OK signal output (PhotoMOS as make contact; max. 31.2 V / 100 mA)
Efficiency/Power Losses	
Power loss P_l	≤ 50 W (400 VAC; nominal load)
Efficiency (typ.)	92 %
Fuse Protection	
Internal fuse	3 x T 3.5 A / 500 VAC
Recommended backup fusing	3 x Circuit breaker ≥ 10 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-GND/sec.-GND/sec.-signal)	4.242 kVDC / 2.2 kVDC / 0.7 kVDC / 0.7 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes; max. 2 power supplies
MTBF	> 1.800.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	10 … 95 % (no condensation permissible)
Derating	-2 %/K (> 45 °C)
Pollution degree	2
Connection Data	
Connection technology	Push-in CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.5 … 6 mm² / 0.5 … 6 mm² / 20 … 10 AWG
Signaling (solid/fine-stranded/AWG)	0.2 … 1.5 mm² / 0.2 … 1.5 mm² / 24 … 14 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	80 x 130 x 170; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	1710 g
Standards and Specifications	
Approvals/standards/specifications	CE; EAC; EN 61204-3; EN 62368-1; cURus 60950-1; cURus 62368-1; cULus 508; CSA C22.2

Switched-Mode Power Supply; Eco; 3-Phase; 24 VDC / 40 A
787 Series



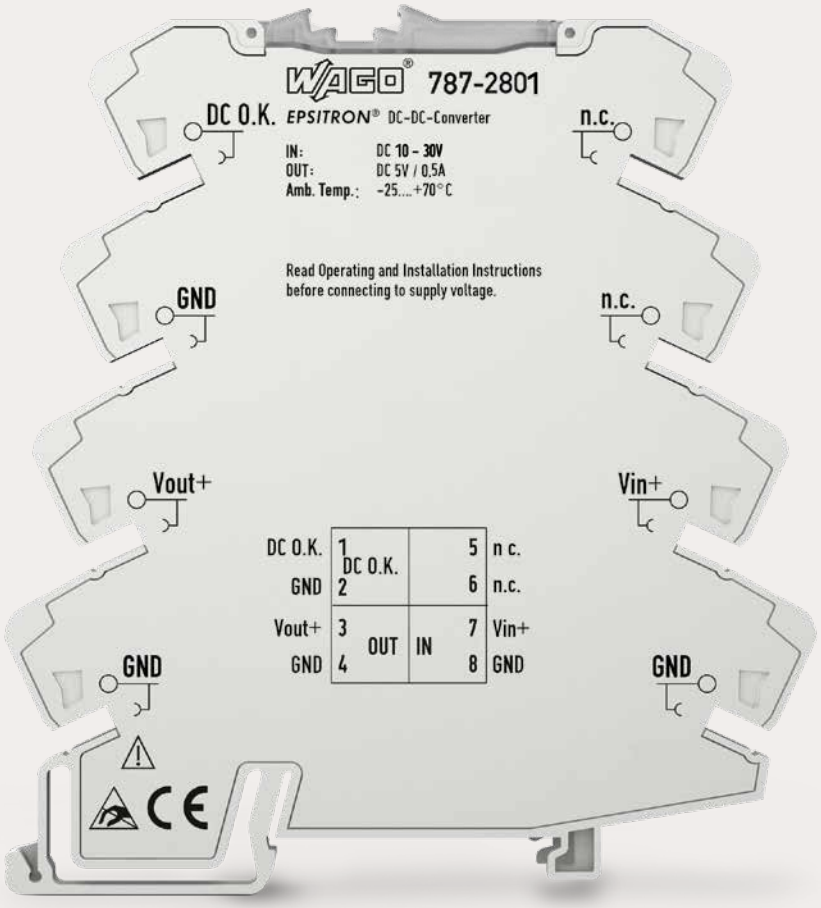
Switched-Mode Power Supply; Eco; 3-phase; Output voltage: 24 VDC; Output current: 40 A; DC OK signal

Item No.	Pack. Unit
787-2744	1



Features:
- Economical power supply for standard applications
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Fast and tool-free termination via lever-actuated terminals with push-in connection technology
- DC OK signal output
- Parallel operation
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204

Input	
Nominal input voltage $U_{i\,nom}$	(2 / 3) x 400 … 480 VAC
Input voltage range	(2 / 3) x 325 … 575 VAC; 560 … 700 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 3 x 2.5 A (AC 400 V)
Inrush current	≤ 30 A (AC 400 V)
Power factor	≥ 0.7 (AC 400 V)
Power factor correction (PFC)	passiv
Mains failure hold-up time	≥ 10 ms (3 x AC 400 V)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	22 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	40 A (24 VDC)
Nominal output power	960 W
Residual ripple	≤ 150 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.05 … 1.4 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x Overload LED (red); 1 x DC OK signal output (PhotoMOS as make contact; max. 31.2 V / 100 mA)
Efficiency/Power Losses	
Power loss P_l	≤ 89 W (400 VAC; nominal load)
Efficiency (typ.)	92.3 %
Fuse Protection	
Internal fuse	3 x T 6.3 A / 500 VAC
Recommended backup fusing	3 x Circuit breaker ≥ 10 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-GND/sec.-GND/ sec.-signal)	4.242 kVDC / 2.2 kVDC / 0.7 kVDC / 0.7 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes; max. 2 power supplies
MTBF	> 1.300.000 h (per IEC 61709)
Surrounding air temperature (operation)	–20 … +70 °C
Relative humidity	10 … 95 % (no condensation permissible)
Derating	-2 %/K (> 45 °C)
Pollution degree	2
Connection Data	
Connection technology	Push-in CAGE CLAMP®
Input (solid/fine-stranded/AWG)	0.5 … 6 mm² / 0.5 … 6 mm² / 20 … 10 AWG
Output (solid/fine-stranded/AWG)	0.75 … 16 mm² / 0.75 … 25 mm² / 18 … 4 AWG
Singnaling (solid/fine-stranded/AWG)	0.2 … 1.5 mm² / 0.2 … 1.5 mm² / 24 … 14 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	140 x 130 x 170; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	2630 g
Standards and Specifications	
Approvals/standards/specifications	CE; EAC; EN 61204-3; EN 62368-1; cURus 60950-1; cURus 62368-1; cULus 508; CSA C22.2



WAGO DC/DC Converters

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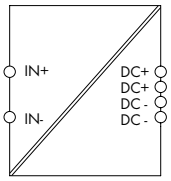
WAGO DC/DC Converters
Selection Guide

Nominal voltage (input) [VDC]	Nominal voltage (output) [VDC]	Nominal current (output) [A]	Approvals						DC OK signal/ contact	Efficiency typ. [%]	Surrounding air temperature [°C]	Item Number	Page
			EN 50155	EN 60335	UL 61010-2-201	DNVGL	ANSI/ISA 12.12.1	ATEX/IEC Ex					
24.0	5.0	0.5			■				■	82.5	–25 … +70	**787-2801**	121
24.0	10.0	0.5			■				■	89.0	–25 … +70	**787-2802**	122
48.0	24.0	0.5			■				■	91.0	–25 … +70	**787-2803**	124
24.0	12.0	0.5			■				■	90.0	–25 … +70	**787-2805**	123
24.0	5/10/12	0.5			■				■	82.5	–25 … +70	**787-2810**	125
24.0	12.0	0.4			■					84.0	–25 … +70	**787-1650**	120
110.0	24.0	2.0	■		■					85.0	–40 … +70	**787-1014**	117
72.0	24.0	2.0	■		■					86.0	–40 … +70	**787-1014/072-000**	118
72.0	12.0	4.0	■		■	■				86.0	–40 … +70	**787-1015/072-000**	119

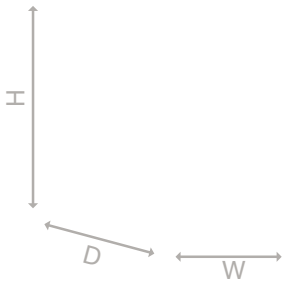
■ Yes ☐ Pending

DC/DC Converter; Compact; 24 VDC / 2 A
787 Series



DC/DC Converter; EPSITRON® COMPACT Power; 110 VDC input voltage; 24 VDC output voltage; 2 A output current

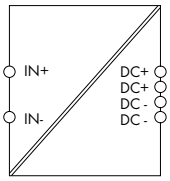
Item No.	Pack. Unit
787-1014	1



Input	
Nominal input voltage $U_{i\,nom}$	110 VDC
Input voltage range	77 … 140 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 0.77 A (77 VDC); ≤ 0.42 A (140 VDC)
Inrush current	≤ 30 A (NTC)
Mains failure hold-up time	≥ 8 ms (77 VDC); > 25 ms (140 VDC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Nominal output current $I_{o\,nom}$	2 A (24 VDC); 1.6 A (in any mounting position)
Nominal output power	48 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant current
Signaling and Communication	
Signaling	1 x Status indication LED (green)
Efficiency/Power Losses	
Power loss (max.) $P_{l\,(max.)}$	10.5 W (40 VDC / 24 VDC; 2 A)
Efficiency (typ.)	84 %
Fuse Protection	
Internal fuse	T 4 A / 125 VDC
Recommended backup fusing	Circuit breaker: 6 A, 10 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec.)	4.242 kVDC
Protection class/protection type	II / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	−40 … +70 °C
Relative humidity	5 … 96 % (coated PCB)
Derating	−1.5 %/K (> +55 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	72 x 89 x 55; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	250 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; EN 61010-2-201; EN 61204-3; EN 50121-3-2

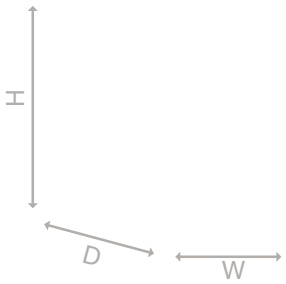
DC/DC Converter; Compact; 24 VDC / 2 A
787 Series

Similar to picture



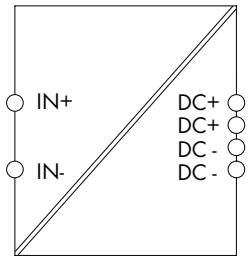
DC/DC Converter; Compact; Input voltage: 72 VDC; Output voltage: 24 VDC; Output current: 2 A; electrically isolated

Item No.	Pack. Unit
787-1014/072-000	1



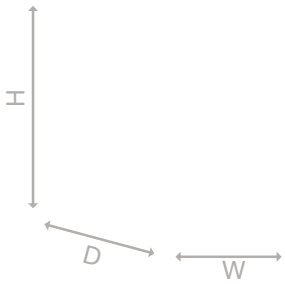
Input	
Nominal input voltage $U_{i\,nom}$	72 VDC
Input voltage range	40 … 90 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 0.79 A (72 VDC)
Inrush current	≤ 30 A (NTC)
Mains failure hold-up time	≥ 8 ms (72 VDC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Nominal output current $I_{o\,nom}$	2 A (24 VDC); 1.6 A (in any mounting position)
Nominal output power	48 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant current
Signaling and Communication	
Signaling	1 x Status indication LED (green)
Efficiency/Power Losses	
Power loss (max.) $P_{l\,(max.)}$	10.5 W (40 VDC / 24 VDC; 2 A)
Efficiency (typ.)	84 %
Fuse Protection	
Internal fuse	T 4 A / 125 VDC
Recommended backup fusing	Circuit breaker: 6 A, 10 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec.)	4.242 kVDC
Protection class/protection type	II / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	No/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	−40 … +70 °C
Relative humidity	5 … 96 % (coated PCB)
Derating	−1.5 %/K (> +55 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	72 x 89 x 55; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	250 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; EN 61010-2-201; EN 61204-3; EN 50121-3-2

DC/DC Converter; Compact; 12 VDC / 4 A
787 Series



DC/DC Converter; Compact; 72 VDC input voltage; 12 VDC output voltage; 4 A output current; galvanically isolated

	Item No.	Pack. Unit
	787-1015/072-000	1



Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Stepped profile, ideal for distribution boards or distribution boxes
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 61010-1; EN 61010-2-201
- Control deviation: ±1 % (±10 % within the application range of EN 50121-3-2)
- Suitable for railway applications

Input	
Nominal input voltage $U_{i\,nom}$	72 VDC
Input voltage range	40 … 90 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 0.79 A (72 VDC)
Inrush current	≤ 30 A (NTC)
Mains failure hold-up time	≥ 8 ms (72 VDC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	12 VDC (SELV) / 1 %
Nominal output current $I_{o\,nom}$	4 A (24 VDC); 3.1 A (in any mounting position)
Nominal output power	48 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant current
Signaling and Communication	
Signaling	1 x Status indication LED (green)
Efficiency/Power Losses	
Power loss P_l	≤ 1.2 W (72 VDC; no load); ≤ 8.6 W (72 VDC; nominal load)
Power loss (max.) $P_{l\,max.}$	9.7 W (40 VDC / 12 VDC; 4 A)
Efficiency (typ.)	85 %
Fuse Protection	
Internal fuse	T 4 A / 125 VDC
Recommended backup fusing	Circuit breaker: 6 A, 10 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec.)	4.242 kVDC
Protection class/protection type	II / IP20 (per EN 60529)
Overvoltage category	II
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	−40 … +70 °C
Relative humidity	5 … 96 % (coated PCB)
Derating	−1.5 %/K (> +55 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	72 x 89 x 55; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	235 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61010-1; EN 61010-2-201; EN 61204-3; EN 50121-3-2; EN 50125; DNV GL

DC/DC Converter; 12 VDC / 4 A
787 Series

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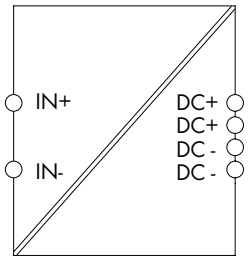
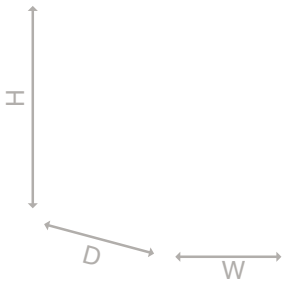


DC/DC Converter; 24 VDC input voltage; 12 VDC output voltage; 4 A output current; galvanically isolated

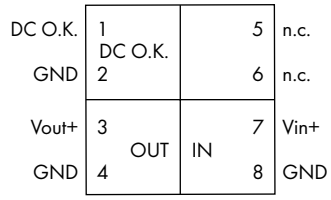
	Item No.	Pack. Unit
	787-1650	1



Features:
- Primary switch mode power supply unit
- Natural convection cooling when horizontally mounted
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 61010-1; EN 61010-2-201
- Adjustment accuracy: ± 1 %

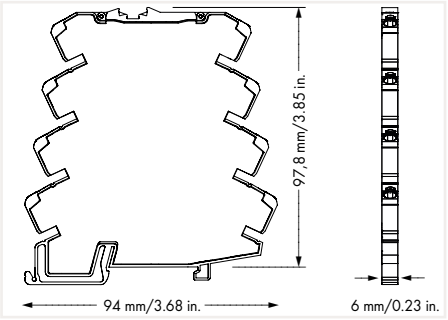
Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	18 … 60 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 2.56 A (24 VDC); ≤ 0.96 A (60 VDC); ≤ 3.39 A (18 VDC)
Inrush current	≤ 60 A (NTC)
Mains failure hold-up time	≥ 5 ms (24 VDC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	12 VDC (SELV) / ≤ 1 %
Output voltage range	11.5 … 14.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	4 A
Nominal output power	48 W
Residual ripple	≤ 50 mV (peak-to-peak)
Overload behavior	Constant current
Signaling and communication	
Signaling	1 x LED operation status indicator (green)
Efficiency/Power losses:	
Power loss P_v	≤ 1 W (No load); ≤ 11.7 W (DCin 24 V / 4 A); ≤ 1.28 W (48 VDC; 40 A)
Power loss (max.) $P_{l\,max.}$	15 W (DC_{in} 18 V / 4 A)
Efficiency (typ.)	84 %
Fuse protection:	
Internal fuse	T 4 A / 250 VDC
Safety and Protection/Environmental Requirements:	
Insulation voltage (pri.-sec.)	2.2 kV DC
Protection class/protection type	III / IP20 (per EN 60529)
Overvoltage category	II
Short circuit protection	Yes
Parallel operation/series operation	Yes/yes
MTBF	> 500.000 h (per IEC 61709)
Surrounding air (operating) temperature	-25 … 70 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-2 %/K (> 55 °C)
Pollution degree	2
Connection data	
Connection technology	CAGE CLAMP®
Input/output/signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	45 x 90 x 107.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	240 g
Standards and specifications	
Approvals/standards/specifications	CE; EN 61000-6-2; EN 61000-6-3; EN 61010-1; EN 61010-2-201; UL 61010-2-201

DC/DC Converter; 5 VDC / 0.5 A
787 Series



DC/DC Converter; 24 VDC input voltage; 5 VDC output voltage; 0.5 A output current; DC OK contact

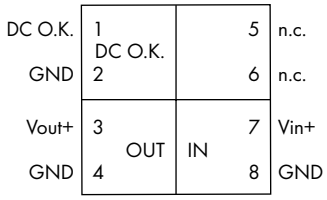
	Item No.	Pack. Unit
	787-2801	1



Features:
- DC/DC converter in a compact 6 mm housing
- DC/DC converters (787-28xx) supply devices with 5, 10, 12 or 24 VDC from a 24 or 48 VDC power supply with an output power up to 12 W
- Output voltage monitoring via DC OK contact
- Can be commoned with 857 and 2857 Series devices
- Comprehensive range of approvals for multiple applications

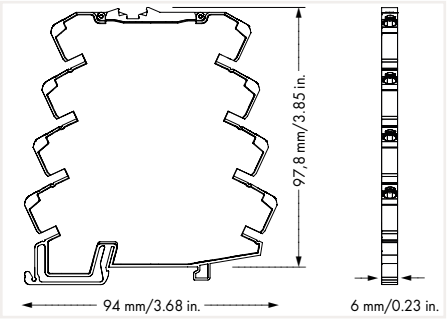
Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	10 … 30 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 0.34 A
Inrush current	≤ 0.5 A (at nominal input voltage)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	5 VDC / ≤ 3 %
Output voltage range	±3 %
Nominal output current $I_{o\,nom}$	0.5 A
Nominal output power	2.5 W
Mains/load regulation	≤ 1 %
Residual ripple	≤ 20 mV (peak-to-peak)
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x Short circuit LED (red); 1 x Active signal output (U_i, max. 4 mA)
Efficiency/Power Losses	
Power loss P_l	≤ 0.13 W (no load); ≤ 0.6 W (nominal load)
Efficiency (typ.)	82.5 % (at nominal input voltage and nominal output)
Fuse Protection	
Internal fuse	No
Safety and Protection/Environmental Requirements	
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	Yes
Short-circuit-protected	Yes
Parallel operation/series operation	No/no
MTBF	> 1.800.000 h
Surrounding air temperature (operation)	−25 … +70 °C
Relative humidity	95 % (no condensation permissible)
Derating	No derating
Pollution degree	2
Connection Data	
Number of jumper slots	8
Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.08 … 2.5 mm² / 28 … 14 AWG
Fine-stranded conductor	0.34 … 2.5 mm² / 22 … 14 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	6 x 97.8 x 94; height from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	49.5 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61000-6-2; EN 61000-6-3; EN 60950-1; UL 61010-2-201

DC/DC Converter; 10 VDC / 0.5 A
787 Series



DC/DC Converter; 24 VDC input voltage; 10 VDC output voltage; 0.5 A output current; DC OK contact

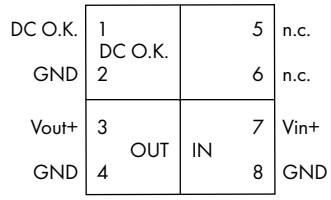
	Item No.	Pack. Unit
	787-2802	1



Features:
- DC/DC converter in a compact 6 mm housing
- DC/DC converters (787-28xx) supply devices with 5, 10, 12 or 24 VDC from a 24 or 48 VDC power supply with an output power up to 12 W
- Output voltage monitoring via DC OK contact
- Can be commoned with 857 and 2857 Series devices
- Comprehensive range of approvals for multiple applications

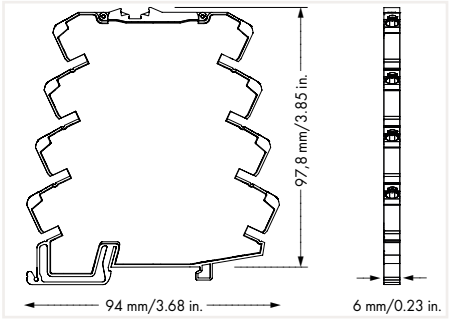
Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	15 … 30 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 0.42 A
Inrush current	≤ 0.5 A (at nominal input voltage)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	10 VDC / ≤ 2 %
Output voltage range	±3 %
Nominal output current $I_{o\,nom}$	0.5 A
Nominal output power	5 W
Mains/load regulation	≤ 1 %
Residual ripple	≤ 20 mV (peak-to-peak)
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x Short circuit LED (red); 1 x Active signal output (U_i, max. 4 mA)
Efficiency/Power Losses	
Power loss P_l	≤ 0.19 W (no load); ≤ 0.7 W (nominal load)
Efficiency (typ.)	89 % (at nominal input voltage and nominal output)
Fuse Protection	
Internal fuse	No
Safety and Protection/Environmental Requirements	
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	Yes
Short-circuit-protected	Yes
Parallel operation/series operation	No/no
MTBF	> 1.800.000 h
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	95 % (no condensation permissible)
Derating	No derating
Pollution degree	2
Connection Data	
Number of jumper slots	8
Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.08 … 2.5 mm² / 28 … 14 AWG
Fine-stranded conductor	0.34 … 2.5 mm² / 22 … 14 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	6 x 97.8 x 94; height from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	35.9 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61000-6-2; EN 61000-6-3; EN 60950-1; UL 61010-2-201

DC/DC Converter; 12 VDC / 0.5 A
787 Series



DC/DC Converter; 24 VDC input voltage; 12 VDC output voltage; 0.5 A output current; DC OK contact

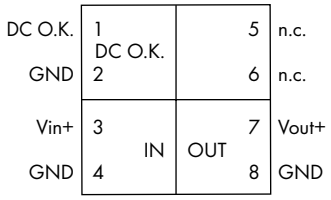
	Item No.	Pack. Unit
	787-2805	1



Features:
- DC/DC converter in a compact 6 mm housing
- DC/DC converters (787-28xx) supply devices with 5, 10, 12 or 24 VDC from a 24 or 48 VDC power supply with an output power up to 12 W
- Output voltage monitoring via DC OK contact
- Can be commoned with 857 and 2857 Series devices
- Comprehensive range of approvals for multiple applications

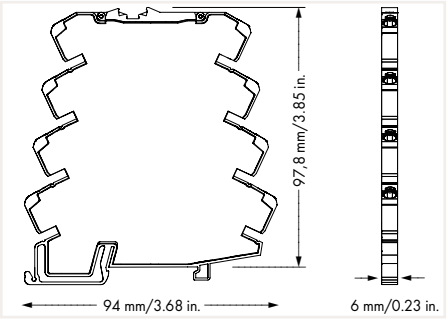
Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	15 … 30 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 0.5 A
Inrush current	≤ 0.5 A (at nominal input voltage)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	5 VDC / ≤ 2 %
Output voltage range	±2 %
Nominal output current $I_{o\,nom}$	0.5 A
Nominal output power	6 W
Mains/load regulation	≤ 1 %
Residual ripple	≤ 20 mV (peak-to-peak)
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x Short circuit LED (red); 1 x Active signal output (U_i, max. 4 mA)
Efficiency/Power Losses	
Power loss P_l	≤ 0.21 W (no load); ≤ 0.7 W (nominal load)
Efficiency (typ.)	90 % (at nominal input voltage and nominal output)
Fuse Protection	
Internal fuse	No
Safety and Protection/Environmental Requirements	
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	Yes
Short-circuit-protected	Yes
Parallel operation/series operation	No/no
MTBF	> 1.800.000 h
Surrounding air temperature (operation)	−25 … +70 °C
Relative humidity	95 % (no condensation permissible)
Derating	No derating
Pollution degree	2
Connection Data	
Number of jumper slots	8
Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.08 … 2.5 mm² / 28 … 14 AWG
Fine-stranded conductor	0.34 … 2.5 mm² / 22 … 14 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	6 x 97.8 x 94; height from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	49.5 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61000-6-2; EN 61000-6-3; EN 60950-1; UL 61010-2-201

DC/DC Converter; 24 VDC / 0.5 A
787 Series



DC/DC Converter; 48 VDC input voltage; 24 VDC output voltage; 0.5 A output current; DC OK contact

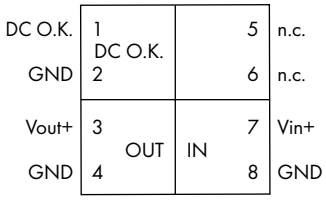
	Item No.	Pack. Unit
	787-2803	1



Features:
- DC/DC converter in a compact 6 mm housing
- DC/DC converters (787-28xx) supply devices with 5, 10, 12 or 24 VDC from a 24 or 48 VDC power supply with an output power up to 12 W
- Output voltage monitoring via DC OK contact
- Can be commoned with 857 and 2857 Series devices
- Comprehensive range of approvals for multiple applications

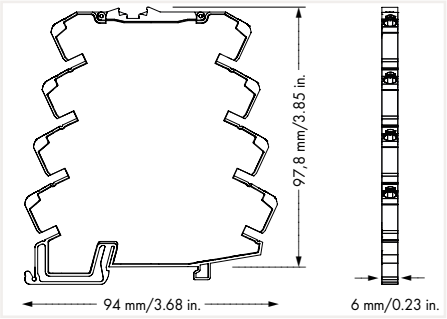
Input	
Nominal input voltage $U_{i\,nom}$	48 VDC
Input voltage range	40 … 55 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 0.34 A
Inrush current	≤ 0.5 A (at nominal input voltage)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC / ≤ 3 %
Output voltage range	±3 %
Nominal output current $I_{o\,nom}$	0.5 A
Nominal output power	12 W
Mains/load regulation	≤ 1 %
Residual ripple	≤ 20 mV (peak-to-peak)
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x Short circuit LED (red); 1 x Active signal output (U_i, max. 4 mA)
Efficiency/Power Losses	
Power loss P_l	≤ 0.29 W (no load); ≤ 1.2 W (nominal load)
Efficiency (typ.)	91 % (at nominal input voltage and nominal output)
Fuse Protection	
Internal fuse	No
Safety and Protection/Environmental Requirements	
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	Yes
Short-circuit-protected	Yes
Parallel operation/series operation	No/no
MTBF	> 1.800.000 h
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	95 % (no condensation permissible)
Derating	No derating
Pollution degree	2
Connection Data	
Number of jumper slots	8
Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.08 … 2.5 mm² / 28 … 14 AWG
Fine-stranded conductor	0.34 … 2.5 mm² / 22 … 14 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	6 x 97.8 x 94; height from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	32.57 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61000-6-2; EN 61000-6-3; EN 60950-1; UL 61010-2-201

DC/DC Converter; 5 … 12 VDC / 0.5 A
787 Series



DC/DC Converter; 24 VDC input voltage; 5/10/12 VDC adjustable output voltage; 0.5 A output current; DC OK contact

	Item No.	Pack. Unit
	787-2810	1



Features:
- DC/DC converter in a compact 6 mm housing
- DC/DC converters (787-28xx) supply devices with 5, 10, 12 or 24 VDC from a 24 or 48 VDC power supply with an output power up to 12 W
- Output voltage monitoring via DC OK contact
- Can be commoned with 857 and 2857 Series devices
- Comprehensive range of approvals for multiple applications

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	15 … 30 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 0.5 A
Inrush current	≤ 0.5 A (at nominal input voltage)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	5/10/12 VDC (adjustable via DIP switches) / ≤ 3 %
Output voltage range	±3 %
Nominal output current $I_{o\,nom}$	0.5 A
Nominal output power	6 W
Mains/load regulation	≤ 1 %
Residual ripple	≤ 20 mV (peak-to-peak)
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x Short circuit LED (red); 1 x Active signal output (U_i, max. 4 mA)
Efficiency/Power Losses	
Power loss P_l	≤ 0.21 W (no load); ≤ 0.7 W (nominal load)
Efficiency (typ.)	≥ 82.5 % (at nominal input voltage and nominal output)
Fuse Protection	
Internal fuse	No
Safety and Protection/Environmental Requirements	
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	Yes
Short-circuit-protected	Yes
Parallel operation/series operation	No/no
MTBF	> 1.800.000 h
Surrounding air temperature (operation)	−25 … +70 °C
Relative humidity	≤ 95 % (no condensation permissible)
Derating	No derating
Pollution degree	2
Connection Data	
Number of jumper slots	8
Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.08 … 2.5 mm² / 28 … 14 AWG
Fine-stranded conductor	0.34 … 2.5 mm² / 22 … 14 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	6 x 97.8 x 94; height from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	51.5 g
Standards and Specifications	
Approvals/standards/specifications	CE;EN 61000-6-2; EN 61000-6-3; EN 60950-1; UL 61010-2-201

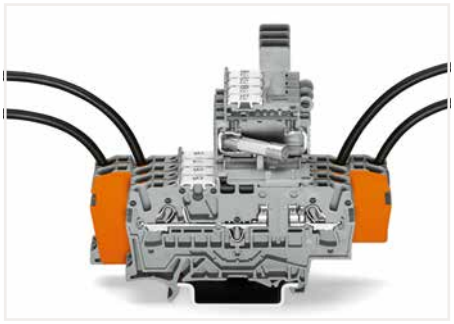
WAGO Circuit Protection

WAGO Circuit Protection

4

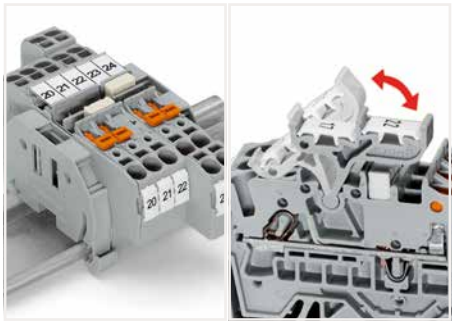
Fuse Terminal Blocks; TOPJOB® S
Description and Installation

Fuse terminal blocks



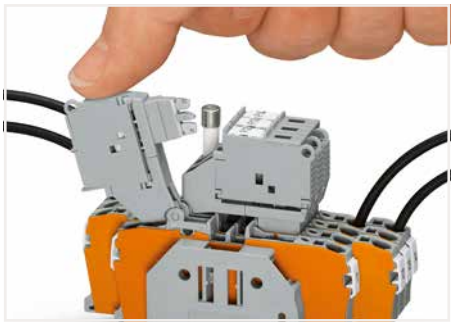
Fuse plug with blown fuse indication on a 2-conductor carrier terminal block

Commoning and marking



Dual jumper slots, in the same position as the 2002 Series terminal blocks. Commoning options in front of or behind the knife disconnect, depending on the power supply direction; additional marking option via pivoting marker carriers.

Fuse replacement 1

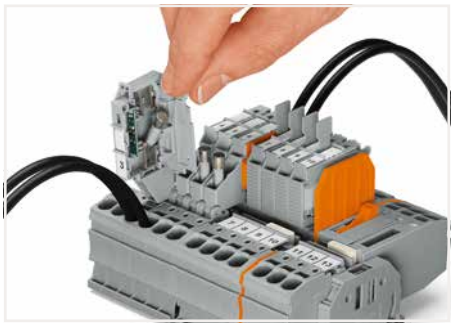


Before replacing the fuse, pivot the fuse holder into the locked open position.

Commoning

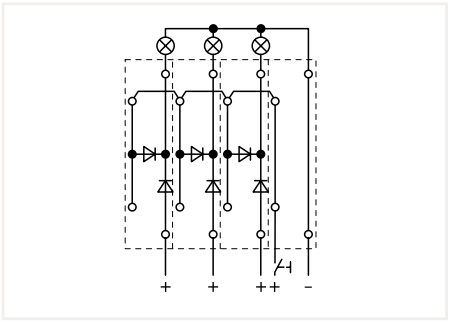
Custom circuit design via push-in type jumper bars. Example shows "lamp test circuit."

Fuse replacement 2



One end of the fuse is automatically ejected from the holder when opening the cover.

Application

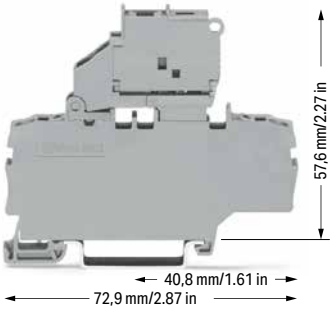


Lamp test circuit

Fused Disconnect Terminal Block with Pivoting Fuse Holder TOPJOB® S; for 5 x 20 mm, 5 x 30 mm and ¼" x 1¼" Miniature Metric Fuse

TOPJOB® S; 2.5 (4) mm²; 2002 Series; 6 (10) mm²; 2006 Series

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V/6 kV/3 ❸	30 V, 6.3 A
I_N 6.3 A	
Terminal block width: 6.2 mm / 0.244 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor fused disconnect terminal block with a pivoting fuse holder; with additional jumper slot; for (5 x 20) mm miniature metric fuse; without blown fuse indication
Electrical ratings are given by the fuse

Color	Item No.	Pack. Unit
gray	2002-1911 ❺	50

2-conductor fused disconnect terminal block with a pivoting fuse holder; with additional jumper slot; for (5 x 20) mm miniature metric fuse; with blown fuse indication by LED; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 2 mA

	Item No.	Pack. Unit
12 … 30 V	2002-1911/1000-541 ❺	50
30 … 65 V	2002-1911/1000-542 ❺	50
120 V	2002-1911/1000-867 ❺	50
230 V	2002-1911/1000-836 ❺	50

Accessories; item-specific

End plate for fuse terminal blocks; 2 mm thick

orange	2002-992	100 (25)
gray	2002-991	100 (25)

Staggered jumper; insulated; I_N 25 A; light gray

2-way	2002-472	25
…		
12-way	2002-482	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A, light gray

2-way	2002-400	25
1 to 3	2002-423	25

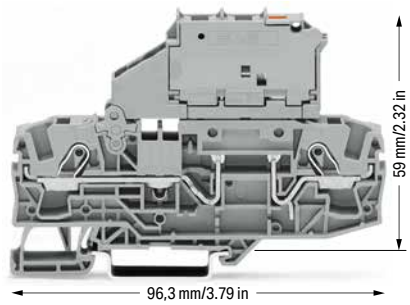
Push-in type jumper bar; insulated; I_N 25 A; light gray

2-way	2002-402	25
…		
10-way	2002-410	25

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

Technical Data	
0.5 … 6 (10) mm² ❷	20 … 8 AWG
800 V/8 kV/3 ❹	30 V, 15 A
I_N 10 A	30 V, 15 A
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	



2-conductor fused disconnect terminal block with a pivoting fuse holder; gray; with blown fuse indication by LED Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 2 mA

for (5 x 20) mm miniature metric fuse

	Item No..	Pack. Unit
12 … 30 V	2006-1611/1000-541	25
30 … 65 V	2006-1611/1000-542	25
120 V	2006-1611/1000-867	25
230 V	2006-1611/1000-836	25

for (5 x 30) mm miniature metric fuse

12 … 30 V	2006-1621/1000-541	25
30 … 65 V	2006-1621/1000-542	25
120 V	2006-1621/1000-867	25
230 V	2006-1621/1000-836	25
380 … 500 V	2006-1621/1000-859	25

for ¼" x 1¼" miniature metric fuse

12 … 30 V	2006-1631/1000-541	25
30 … 65 V	2006-1631/1000-542	25
120 V	2006-1631/1000-867	25
230 V	2006-1631/1000-836	25
380 … 500 V	2006-1631/1000-859	25

Accessories; item-specific

End plate for fuse terminal blocks; 2 mm thick

orange	2006-992	100 (25)
gray	2006-991	100 (25)

Push-in type jumper bar; insulated; I_N 41 A; light gray

2-way	2006-402	25
3-way	2006-403	25
4-way	2006-404	25
5-way	2006-405	25

Push-in type jumper bar; insulated; I_N 41 A; light gray

1 to 3	2006-433	25
1 to 4	2006-434	25
1 to 5	2006-435	25

Star point jumper; insulated; I_N = I_N terminal block; light gray

1-3-5	2006-405/011-000	25

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

❶ Conductor range: 0.25 … 4 mm² "s+f-st"; Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ Conductor range: 0.5 … 10 mm² "s+f-st"; Push-in termination: 2.5 … 10 mm² "s" and 2.5 … 6 mm² "insulated ferrules; 12 mm" Depending on the conductor characteristic, a conductorwith a smaller cross section can also be inserted via push-in termination.

❸ 250 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree

❹ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree

❺ Terminal blocks with an Ex mark are suitable for Ex ec IIc applications.

Approvals and corresponding ratings, visit www.wago.com

Glass cartridge fuses 5 x 20

Series Item No.	Overload and short circuit protection		Short circuit protection only	
	Individual argmt.	Group argmt.	Individual argmt.	Group argmt.
	Fuse terminal blocks			
2002-1911	1.6 W	1.6 W	2.5 W	2.5 W
2002-1911/….-….	1.6 W	1.6 W	2.5 W	2.5 W

Glass cartridge fuses

Series Item No.		Overload and short circuit protection		Short circuit protection only	
		Individual argmt.	Group argmt.	Individual argmt.	Group argmt.
		Fused disconnect terminal blocks			
2006-1611	7.5	1.6 W	1.6 W	2.5 W	2.5 W
2006-1621	7.5	1.6 W	1.6 W	2.5 W	2.5 W
2006-1631	7.5	1.6 W	1.6 W	2.5 W	2.5 W
2006-1631 /099-…	10.4	2.5 W	2.5 W	2.5 W	2.5 W
2006-1631 /1099-…	10.4	2.5 W	2.5 W	2.5 W	2.5 W

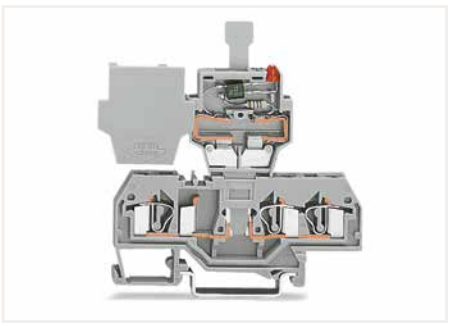
When selecting miniature metric fuses, make sure that the maximum power loss listed below is not exceeded. The power loss is determined according to IEC or EN 60947-7-3/VDE 0611-6 at 23°C. The temperature rise of the terminal blocks must be checked according to their application and mounting. Higher ambient temperatures represent an additional impact on miniature fuses. Therefore, in such applications, the rated current must be reduced if necessary. More details are available from the manufacturers.

Fuse Terminal Blocks and Fuse Plugs; Classic
Description and Installation

Fuse terminal blocks

Blown fuse indication by LED or neon lamp

Fuse plug

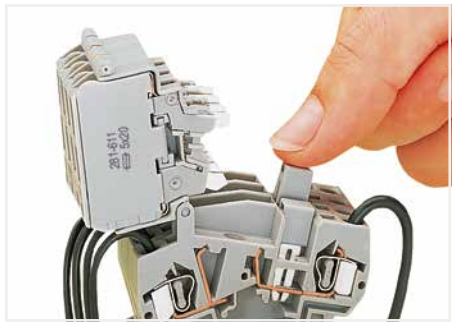


Fuse plug with blown fuse indication on a 3-conductor carrier terminal block.

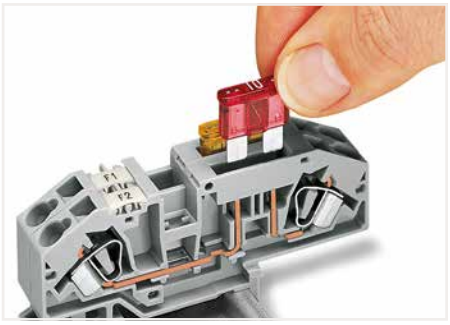
Conductor termination:
Open the clamping unit via integrated lever.

4

Commoning



Distributing current to several fuse-protected circuits via insulated touch-proof jumpers.

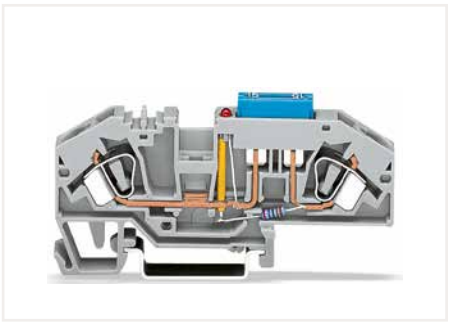


Inserting a fuse.

Open and close lever via screwdriver.

Fuse replacement 1

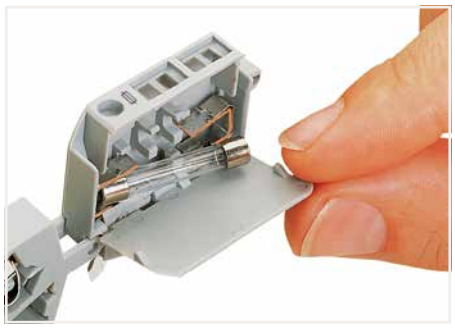
Before replacing the fuse, pivot the fuse holder into the locked open position.



2-conductor fuse terminal block with mini-automotive blade-style fuse

Jumper bar for quick and convenient commoning

Fuse replacement 2



One end of the fuse is automatically ejected from the holder when opening the cover.

Blown fuse indication by LED

Inserting a fuse.

Fuse Terminal Blocks and Fuse Plugs

Classic; 281 / 282 / 811 Series

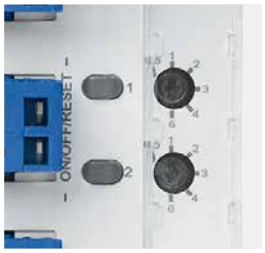
Image	Description	Miniature Fuse	Nominal Current	Nominal Voltage	Blown Fuse Indication	Color	Item No.	Pack. Unit
	Fuse disconnect terminal block with pivoting fuse holder; without blown fuse indication 800 V / 10 A (6.3 A) 0.08 … 4 mm² / 28 … 12 AWG	5 x 20 mm				gray	281-611	50
		5 x 20 mm				orange	281-616	50
		5 x 25 mm				gray	281-612	50
		5 x 30 mm				gray	281-622	50
		1/4" x 1"				gray	281-613	50
		1/4" x 1 1/4"				gray	281-623	50
	Fuse disconnect terminal block with pivoting fuse holder; with blown fuse indication by LED 800 V / 10 A (6.3 A) 0.08 … 4 mm² / 28 … 12 AWG	5 x 20 mm			15 … 30 V	gray	281-611/281-541	50
		5 x 20 mm			30 … 65 V	gray	281-611/281-542	50
		5 x 25 mm			15 … 30 V	gray	281-612/281-541	50
		5 x 25 mm			30 … 65 V	gray	281-612/281-542	50
		5 x 30 mm			15 … 30 V	gray	281-622/281-541	50
		5 x 30 mm			30 … 65 V	gray	281-622/281-542	50
		1/4" x 1"			15 … 30 V	gray	281-613/281-541	50
		1/4" x 1"			30 … 65 V	gray	281-613/281-542	50
		1/4" x 1 1/4"			15 … 30 V	gray	281-623/281-541	50
		1/4" x 1 1/4"			30 … 65 V	gray	281-623/281-542	50
	Fuse disconnect terminal block with pivoting fuse holder; with blown fuse indication by neon lamp 800 V / 10 A (6.3 A) 0.08 … 4 mm² / 28 … 12 AWG	5 x 20 mm			230 V	gray	281-611/281-417	50
		5 x 20 mm			120 V	gray	281-611/281-418	50
		5 x 25 mm			230 V	gray	281-612/281-417	50
		5 x 25 mm			120 V	gray	281-612/281-418	50
		5 x 30 mm			230 V	gray	281-622/281-417	50
		5 x 30 mm			120 V	gray	281-622/281-418	50
		1/4" x 1"			230 V	gray	281-613/281-417	50
		1/4" x 1"			120 V	gray	281-613/281-418	50
		1/4" x 1 1/4"			230 V	gray	281-623/281-417	50
		1/4" x 1 1/4"			120 V	gray	281-623/281-418	50
	Adjacent jumper, insulated, I_N = I_N terminal block					gray	281-402	200
	End and intermediate plate, 2.5 mm thick					orange	281-309	100
						gray	281-311	100
	Fuse plugs on carrier terminal blocks	for 5 x 20 mm and 5 x 25 mm miniature metric fuses	6.3 A	250 V		gray	281-511	50
					LED, 48 VDC	gray	281-512/281-414	50
					LED, 24 V AC/DC	gray	281-512/281-501	50
					Neon lamp, 120 V AC/DC	gray	281-512/281-418	50
					Neon lamp, 230 V AC/DC	gray	281-512/281-417	50
	Fuse terminal blocks for mini-automotive, blade-style fuses 0.2 … 6 mm² / 24 … 10 AWG		25 A	400 V	12 V; LED; circuit I	gray	282-698/281-429	25
					12 V; LED; circuit II	gray	282-698/281-449	25
					24 V; LED; circuit I	gray	282-698/281-413	25
					24 V; LED; circuit II	gray	282-698/281-434	25
					Without blown fuse indication	gray	282-696	25
	Adjacent jumper, insulated, I_N 41 A					gray	282-402	100
	3-conductor through terminal block		41 A	800 V		gray	282-699	25
						blue	282-694	25
	End and intermediate plate, 2 mm thick					orange	282-333	100
						gray	282-334	100
	Fuse terminal block for cylindrical fuses	10 x 38 mm	32 A	DC 1000 V	Without blown fuse indication, 1-pole	light gray	811-316	12
					Blown fuse indication, 1-pole	light gray	811-317	12
	Fuse terminal block for cylindrical fuses 2.5 … 16 mm² / 16 … 6 AWG	10 x 38 mm	32 A	AC 690 V; DC 1000 V	Without blown fuse indication, 1-pole	light gray	811-310	12
					Without blown fuse indication, 2-pole	light gray	811-320	6
					Without blown fuse indication, 3-pole	light gray	811-330	4
					Blown fuse indication, 1-pole	light gray	811-311	12
					Blown fuse indication, 2-pole	light gray	811-321	6
					Blown fuse indication, 3-pole	light gray	811-331	4
					Blown fuse indication, 24 V, 1-pole	light gray	811-314	12
	Fuse terminal block for class CC fuses 2.5 … 16 mm² / 16 … 6 AWG				Without blown fuse indication, 1-pole	light gray	811-410	12
					Without blown fuse indication, 2-pole	light gray	811-420	6
					Without blown fuse indication, 3-pole	light gray	811-430	4
					Blown fuse indication, 1-pole	light gray	811-411	12
					Blown fuse indication, 2-pole	light gray	811-421	6
					Blown fuse indication, 3-pole	light gray	811-431	4
					Blown fuse indication, 24 V, 1-pole	light gray	811-414	12
	Push-in type jumper bar, I_N 63 A, 1000 V	2-way				light gray	811-472	50
		12-way				light gray	811-482	20

WAGO Electronic Circuit Breakers
Selection Guide

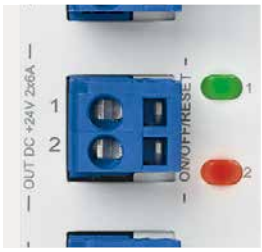
Nominal input/ output voltage	Input/Output				Approvals				Dimensions and Environmental Conditions				Item Number	Page
	Channels (output)	Nominal current (output) [ADC]	Communication	Active current limitation	UL 61010-2-201	UR 2367	cULus 508	GL	Width [mm]	Height [mm]	Length [mm]	Surrounding air temperature [°C]		
12 VDC	4	2 … 10	M			■	■	■	45	115.5	90	–25 … +70	787-1664/000-100	147
24 VDC	1	0.5	S		■			■	6	97.8	94	–25 … +70	787-2861/050-000	134
	1	1	S		■			■	6	97.8	94	–25 … +70	787-2861/100-000	135
	1	2	S		■			■	6	97.8	94	–25 … +70	787-2861/200-000	136
	1	4	S		■			■	6	97.8	94	–25 … +70	787-2861/400-000	137
	1	6	S		■			■	6	97.8	94	–25 … +70	787-2861/600-000	138
	1	8	S		■			■	6	97.8	94	–25 … +70	787-2861/800-000	139
	1	1 … 8	S		■			■	6	97.8	94	–25 … +70	787-2861/108-020	140
24 VDC	2	2 … 10	M			■	■	■	45	115.5	90	–25 … +70	787-1662	143
	2	2 … 10	P			■	■	■	45	115.5	90	–25 … +70	787-1662/000-054	145
	2	3.8 LPS	M	■		■	■		45	115.5	90	–25 … +70	787-1662/004-1000 [1]	142
	2	0.5 … 6	M	■		■	■	■	45	115.5	90	–25 … +70	787-1662/006-1000	141
	2	1 … 6	M			■	■	■	45	115.5	90	–25 … +70	787-1662/106-000	144
24 VDC	4	2 … 10	M			■	■	■	45	115.5	90	–25 … +70	787-1664	153
	4	2 … 10	M			■	■	■	45	115.5	90	–25 … +70	787-1664/000-004	155
	4	2 … 10	P			■	■	■	45	115.5	90	–25 … +70	787-1664/000-054	156
	4	2 … 10	N			■	■	■	45	115.5	90	–25 … +70	787-1664/000-011	159
	4	1 … 10	I			■	■	■	45	115.5	90	–25 … +70	787-1664/000-080	152
	4	3.8 LPS	M	■		■	■		45	115.5	90	–25 … +70	787-1664/004-1000 [1]	149
	4	0.5 … 6	M	■		■	■	■	45	115.5	90	–25 … +70	787-1664/006-1000	148
	4	1 … 6	M			■	■	■	45	115.5	90	–25 … +70	787-1664/106-000	154
	4	1 … 6	N			■	■	■	45	115.5	90	–25 … +70	787-1664/106-011	160
	4	2 … 12	M	■		■	■	■	45	115.5	90	–25 … +70	787-1664/212-1000	150
	4	0.5 … 6	P	■	□	■	■	■	45	115.5	90	–25 … +70	787-1664/006-1054	151
48 VDC	8	2 … 10	M			■	■	■	42	142.5	127	–25 … +70	787-1668	164
	8	2 … 10	M			■	■	■	42	142.5	127	–25 … +70	787-1668/000-004	165
	8	2 … 10	P			■	■	■	42	142.5	127	–25 … +70	787-1668/000-054	166
	8	1 … 10	I			■	■	■	42	142.5	127	–25 … +70	787-1668/000-080	170
	8	0.5 … 6	M	■		■	■	■	42	142.5	127	–25 … +70	787-1668/006-1000	161
	8	1 … 6	M			■	■	■	42	142.5	127	–25 … +70	787-1668/106-000	163
	8	1 … 6	M		□	■	■	■	42	142.5	127	–25 … +70	787-1668/106-054	167
	8	1 … 6	P	■		■	■	■	42	142.5	127	–25 … +70	787-1668/006-1054	162
48 VDC	2	2 … 10	P			■	■	■	45	115.5	90	–25 … +70	787-1662/000-250	146
48 VDC	4	2 … 10	M			■	■	■	45	115.5	90	–25 … +70	787-1664/000-200	157
	4	2 … 10	P			■	■	■	45	115.5	90	–25 … +70	787-1664/000-250	158
48 VDC	8	2 … 10	M			■	■	■	42	142.5	127	–25 … +70	787-1668/000-200	168
	8	2 … 10	P			■	■	■	42	142.5	127	–25 … +70	787-1668/000-250	169

■ Yes □ Pending
[1] NEC Class 2
S = Signal
N = Signal, low-side switching
P = Potential-free signal
I = IO-Link protocol
M = Manchester protocol

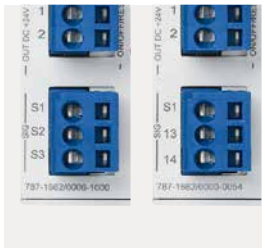
Pluggable CAGE CLAMP® Connection Technology
- **Fast, vibration-proof, maintenance-free**
- **For solid, fine-stranded and ferruled conductors**
- **100% protected against mismating**
- **With marking**



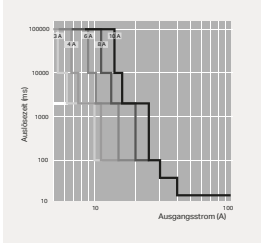
Rotary Switch
- Nominal current can be individually adjusted for each channel
- The setting is visible, even when no voltage is applied
- Transparent cover can be sealed and marked



Intuitive Status Indication
- Each output channel has backlit buttons for switching on/off, as well as acknowledgement
- Integrated, multi-color LEDs indicate the operating status of each channel

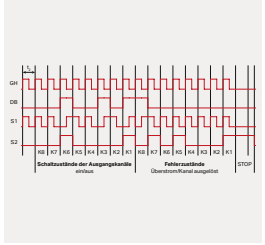


Communication 1.0
- Remote digital input S1 resets all tripped channels
- Digital output S3 transmits a simple group message indicating whether one of the channels was triggered by an overcurrent.
- Optional isolated signal contact 13/14 as group signal



Trip Characteristics
- Reliable and precise disconnection in case of overcurrent or short circuit
- Nominal currents can be set separately for each channel in 1 A increments
- Tripping time can be configured in defined increments
- Optional, active short circuit current limitation to 1.5 times the nominal current prevents a voltage drop in other current paths

*Only for 787-166x/xxxx-1xxx



Communication 2.0
- Remote digital input (S1) switches certain channels on and off via pulse sequence.
- Digital output (S2) transmits the current status (on/off/tripped/
- overcurrent) of each individual channel
- Optional transmission of input voltage and output/nominal current value for each channel

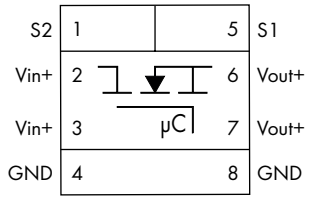
Marking
- Device identification via WMB Markers or TOP-JOB® S Marking Strips
- Label individual channels via
- marking strips that can be inserted into the rotary switch cover from the outside

Communication 3.0
- IO-Link interface
- Read the status, the set nominal current, current voltage values and current values per channel
- Set the rated current as well as switch on/off and reset individual channels

4

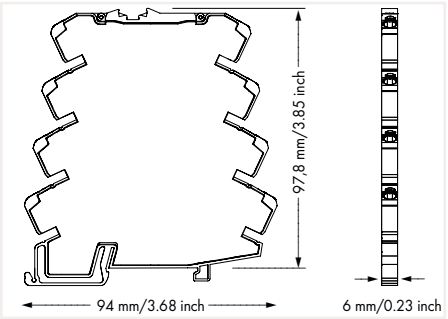
Electronic Circuit Breaker; 24 VDC / 0.5 A
787 Series

Similar to illustration



Electronic circuit breaker; 1-channel; 24 VDC input voltage; 0.5 A; Signal contact

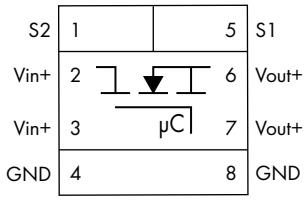
	Item No.	Pack. Unit
	787-2861/050-000	1



Features:
- Space-saving WAGO ECB with one channel
- Reliably and safely trips in the event of an overload and short circuit on the secondary side
- Switch-on capacity > 50.000 µF
- Enables the use of an economical, standard power supply
- Minimizes wiring via two voltage outputs and maximizes commoning options on both input and output sides (e.g., commoning of the output voltage on WAGO 857 and 2857 Series devices)
- Status signal – as single or group message
- Reset, switch on/off via remote input or local switch
- Prevents power supply overload due to total inrush current thanks to time-delayed switching on during interconnected operation

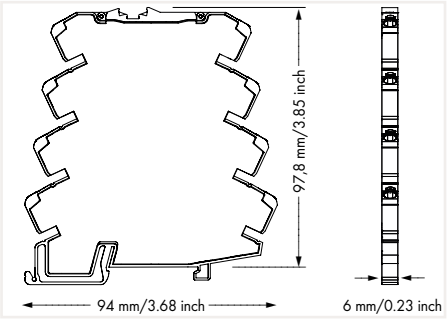
Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	18 … 30 VDC
Output	
Total number of channels (module)	1
Nominal output voltage $U_{o\,nom}$	1 x 24 VDC
Output voltage range	18 … 30 VDC (U_i – Voltage drop)
Voltage drop	≤ 50 mV
Nominal output current $I_{o\,nom}$	1 x 0.5 A (fixed setting)
Trip time	4 ms … 100 s
Switch-on capacity	> 50000 µF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 170 ms/max. 500 ms)
Active current limitation	No
Signaling and Communication	
Signaling	1 x Status LED (green/yellow/red/blue); 1 x Control input; 1 x Active signal output (U_i, max. 4 mA)
Remote input	18 … 30 VDC signal, switches on/off and resets the channel
Efficiency/Power Losses	
Power loss P_l	≤ 0.36 W (no load)
Efficiency (typ.)	99 %
Fuse Protection	
Internal fuse	T 15 A
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operationof single channels	Not permitted
Series operation	No
MTBF	1.263.074 h (per MIL-HDBK-217F2)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	10 … 95 % (no condensation permissible)
Derating	No derating
Pollution degree	2
Connection Data	
Number of jumper slots	8
Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.08 … 2.5 mm² / 28 … 14 AWG
Fine-stranded conductor	0.34 … 2.5 mm² / 22 … 14 AWG
Physical Data/Mechanical Data/Material Data	
Width x Height x Depth (mm)	6 x 97.8 x 94; height from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	53.6 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61000-6-2; EN 61000-6-3; UL 61010-2-201 DNV GL

Electronic Circuit Breaker; 24 VDC / 1 A
787 Series



Electronic circuit breaker; 1-channel; 24 VDC input voltage; 1 A; Signal contact

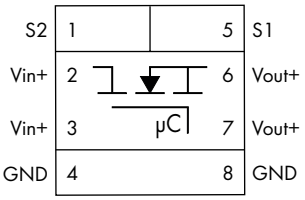
Item No.	Pack. Unit
787-2861/100-000	1



Features:
- Space-saving ECB with one channel
- Reliably and safely trips in the event of an overload and short circuit on the secondary side
- Switch-on capacity > 50.000 µF
- Enables the use of an economical, standard power supply
- Minimizes wiring via two voltage outputs and maximizes commoning options on both input and output sides (e.g., commoning of the output voltage on 857 and 2857 Series devices)
- Status signal – as single or group message
- Reset, switch on/off via remote input or local switch
- Prevents power supply overload due to total inrush current thanks to time-delayed switching on during interconnected operation

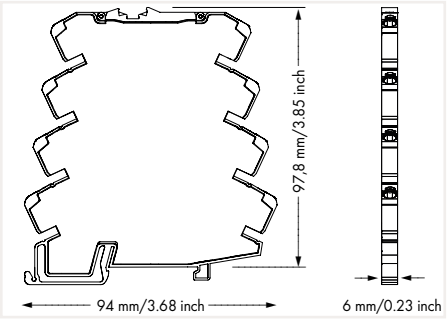
Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	18 … 30 VDC
Output	
Total number of channels (module)	1
Nominal output voltage $U_{o\,nom}$	1 x 24 VDC
Output voltage range	18 … 30 VDC (U_i – Voltage drop)
Voltage drop	≤ 25 mV
Nominal output current $I_{o\,nom}$	1 x 1 A (fixed setting)
Trip time	4 ms … 100 s
Switch-on capacity	> 50.000 µF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 170 ms/max. 500 ms)
Active current limitation	No
Signaling and Communication	
Signaling	1 x Status LED (green/yellow/red/blue); 1 x Control input; 1 x Active signal output (U_i, max. 4 mA)
Remote input	18 … 30 VDC signal, switches on/off and resets the channel
Efficiency/Power Losses	
Power loss P_l	≤ 0.3 W (no load)
Efficiency (typ.)	99 %
Fuse Protection	
Internal fuse	T 15 A
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	1.263.074 h (per MIL-HDBK-217F2)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	10 … 95 % (no condensation permissible)
Derating	No derating
Pollution degree	2
Connection Data	
Number of jumper slots	8
Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.08 … 2.5 mm² / 28 … 14 AWG
Fine-stranded conductor	0.34 … 2.5 mm² / 22 … 14 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	6 x 97.8 x 94; height from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	53.6 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61000-6-2; EN 61000-6-3; UL 61010-2-201; DNV GL* (*pending)

Electronic Circuit Breaker; 24 VDC / 2 A
787 Series



Electronic circuit breaker; 1-channel; 24 VDC input voltage; 2 A; Signal contact

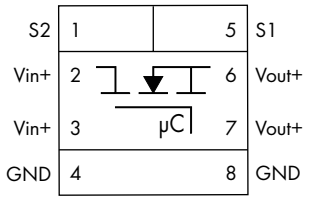
Item No.	Pack. Unit
787-2861/200-000	1



Features:
- Space-saving ECB with one channel
- Reliably and safely trips in the event of an overload and short circuit on the secondary side
- Switch-on capacity > 50.000 µF
- Enables the use of an economical, standard power supply
- Minimizes wiring via two voltage outputs and maximizes commoning options on both input and output sides (e.g., commoning of the output voltage on 857 and 2857 Series devices)
- Status signal – as single or group message
- Reset, switch on/off via remote input or local switch
- Prevents power supply overload due to total inrush current thanks to time-delayed switching on during interconnected operation

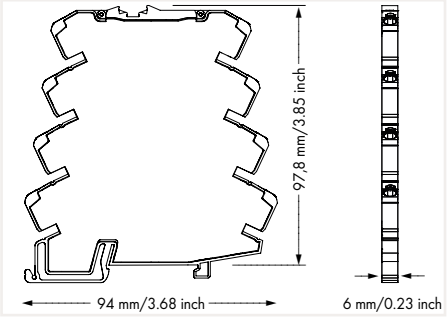
Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	18 … 30 VDC
Output	
Total number of channels (module)	1
Nominal output voltage $U_{o\,nom}$	1 x 24 VDC
Output voltage range	18 … 30 VDC (U_i – Voltage drop)
Voltage drop	≤ 25 mV
Nominal output current $I_{o\,nom}$	1 x 2 A (fixed setting)
Trip time	4 ms … 100 s
Switch-on capacity	> 50.000 µF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 170 ms/max. 500 ms)
Active current limitation	No
Signaling and Communication	
Signaling	1 x Status LED (green/yellow/red/blue); 1 x Control input; 1 x Active signal output (U_i, max. 4 mA)
Remote input	18 … 30 VDC signal, switches on/off and resets the channel
Efficiency/Power Losses	
Power loss P_l	≤ 0.3 W (no load)
Efficiency (typ.)	96 %
Fuse Protection	
Internal fuse	T 15 A
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	1.262.142 h (per MIL-HDBK-217F2)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	10 … 95 % (no condensation permissible)
Derating	No derating
Pollution degree	2
Connection Data	
Number of jumper slots	8
Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.08 … 2.5 mm² / 28 … 14 AWG
Fine-stranded conductor	0.34 … 2.5 mm² / 22 … 14 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	6 x 97.8 x 94; height from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	53.6 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61000-6-2; EN 61000-6-3; EN 60950-1; UL 61010-2-201* (*pending)

Electronic Circuit Breaker; 24 VDC / 4 A
787 Series



Electronic circuit breaker; 1-channel; 24 VDC input voltage; 4 A; Signal contact

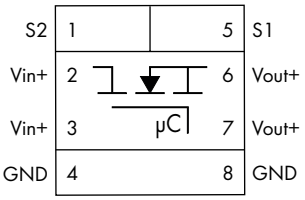
Item No.	Pack. Unit
787-2861/400-000	1



Features:
- Space-saving ECB with one channel
- Reliably and safely trips in the event of an overload and short circuit on the secondary side
- Switch-on capacity > 50.000 µF
- Enables the use of an economical, standard power supply
- Minimizes wiring via two voltage outputs and maximizes commoning options on both input and output sides (e.g., commoning of the output voltage on 857 and 2857 Series devices)
- Status signal – as single or group message
- Reset, switch on/off via remote input or local switch
- Prevents power supply overload due to total inrush current thanks to time-delayed switching on during interconnected operation

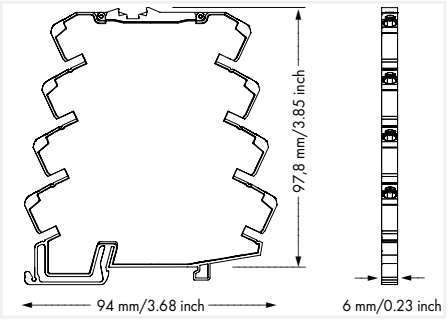
Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	18 … 30 VDC
Output	
Total number of channels (module)	1
Nominal output voltage $U_{o\,nom}$	1 x 24 VDC
Output voltage range	18 … 30 VDC (U_i – Voltage drop)
Voltage drop	≤ 25 mV
Nominal output current $I_{o\,nom}$	1 x 4 A (fixed setting)
Trip time	4 ms … 100 s
Switch-on capacity	> 50.000 µF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 170 ms/max. 500 ms)
Active current limitation	No
Signaling and Communication	
Signaling	1 x Status LED (green/yellow/red/blue); 1 x Control input; 1 x Active signal output (U_i, max. 4 mA)
Remote input	18 … 30 VDC signal, switches on/off and resets the channel
Efficiency/Power Losses	
Power loss P_l	≤ 0.3 W (no load)
Efficiency (typ.)	96 %
Fuse Protection	
Internal fuse	T 15 A
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	1.258.733 h (per MIL-HDBK-217F2)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	10 … 95 % (no condensation permissible)
Derating	No derating
Pollution degree	2
Connection Data	
Number of jumper slots	8
Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.08 … 2.5 mm² / 28 … 14 AWG
Fine-stranded conductor	0.34 … 2.5 mm² / 22 … 14 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	6 x 97.8 x 94; height from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	37 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61000-6-2; EN 61000-6-3; UL 61010-2-201; DNV GL* (*pending)

Electronic Circuit Breaker; 24 VDC / 6 A
787 Series



Electronic circuit breaker; 1-channel; 24 VDC input voltage; 6 A; Signal contact

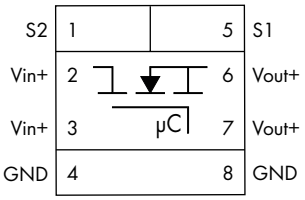
Item No.	Pack. Unit
787-2861/600-000	1



Features:
- Space-saving ECB with one channel
- Reliably and safely trips in the event of an overload and short circuit on the secondary side
- Switch-on capacity > 50.000 µF
- Enables the use of an economical, standard power supply
- Minimizes wiring via two voltage outputs and maximizes commoning options on both input and output sides (e.g., commoning of the output voltage on 857 and 2857 Series devices)
- Status signal – as single or group message
- Reset, switch on/off via remote input or local switch
- Prevents power supply overload due to total inrush current thanks to time-delayed switching on during interconnected operation

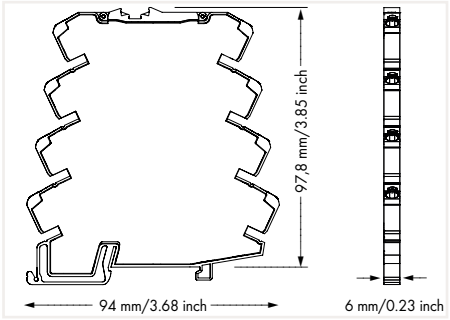
Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	18 … 30 VDC
Output	
Total number of channels (module)	1
Nominal output voltage $U_{o\,nom}$	1 x 24 VDC
Output voltage range	18 … 30 VDC (U_i – Voltage drop)
Voltage drop	≤ 25 mV
Nominal output current $I_{o\,nom}$	1 x 6 A (fixed setting)
Trip time	4 ms … 100 s
Switch-on capacity	> 50.000 µF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 170 ms/max. 500 ms)
Active current limitation	No
Signaling and Communication	
Signaling	1 x Status LED (green/yellow/red/blue); 1 x Control input; 1 x Active signal output (U_i, max. 4 mA)
Remote input	18 … 30 VDC signal, switches on/off and resets the channel
Efficiency/Power Losses	
Power loss P_l	≤ 0.3 W (no load)
Efficiency (typ.)	96 %
Fuse Protection	
Internal fuse	T 15 A
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	1.253.313 h (per MIL-HDBK-217F2)
Surrounding air temperature (operation)	–25 … +70 °C (derating must be observed)
Relative humidity	10 … 95 % (no condensation permissible)
Derating	See instruction manual
Pollution degree	2
Connection Data	
Number of jumper slots	8
Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.08 … 2.5 mm² / 28 … 14 AWG
Fine-stranded conductor	0.34 … 2.5 mm² / 22 … 14 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	6 x 97.8 x 94; height from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	53.6 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61000-6-2; EN 61000-6-3; UL 61010-2-201; DNV GL* (*pending)

Electronic Circuit Breaker; 24 VDC / 8 A
787 Series



Electronic circuit breaker; 1-channel; 24 VDC input voltage; 8 A; Signal contact

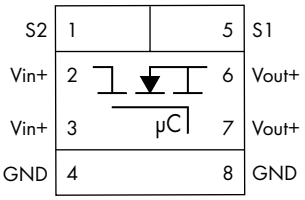
Item No.	Pack. Unit
787-2861/800-000	1



Features:
- Space-saving ECB with one channel
- Reliably and safely trips in the event of an overload and short circuit on the secondary side
- Switch-on capacity > 50.000 µF
- Enables the use of an economical, standard power supply
- Minimizes wiring via two voltage outputs and maximizes commoning options on both input and output sides (e.g., commoning of the output voltage on 857 and 2857 Series devices)
- Status signal – as single or group message
- Reset, switch on/off via remote input or local switch
- Prevents power supply overload due to total inrush current thanks to time-delayed switching on during interconnected operation

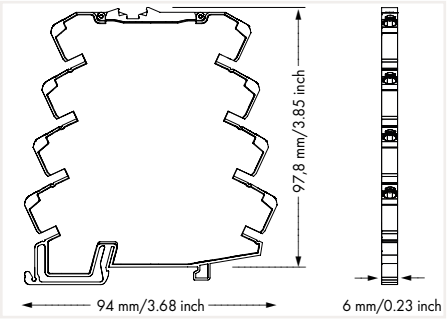
Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	18 … 30 VDC
Output	
Total number of channels (module)	1
Nominal output voltage $U_{o\,nom}$	1 x 24 VDC
Output voltage range	18 … 30 VDC (U_i – Voltage drop)
Voltage drop	≤ 25 mV
Nominal output current $I_{o\,nom}$	1 x 8 A (fixed setting)
Trip time	4 ms … 100 s
Switch-on capacity	> 50.000 µF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 170 ms/max. 500 ms)
Active current limitation	No
Signaling and Communication	
Signaling	1 x Status LED (green/yellow/red/blue); 1 x Control input; 1 x Active signal output (U_i, max. 4 mA)
Remote input	18 … 30 VDC signal, switches on/off and resets the channel
Efficiency/Power Losses	
Power loss P_l	≤ 0.36 W (no load)
Efficiency (typ.)	96 %
Fuse Protection	
Internal fuse	T 15 A
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	1.245.816 h (per MIL-HDBK-217F2)
Surrounding air temperature (operation)	–25 … +65 °C (derating must be observed)
Relative humidity	10 … 95 % (no condensation permissible)
Derating	See instruction manual
Pollution degree	2
Connection Data	
Number of jumper slots	8
Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.08 … 2.5 mm² / 28 … 14 AWG
Fine-stranded conductor	0.34 … 2.5 mm² / 22 … 14 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	6 x 97.8 x 94; height from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	53.6 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61000-6-2; EN 61000-6-3; UL 61010-2-201; DNV GL* (*pending)

Electronic Circuit Breaker; 24 VDC / 1 … 8 A
787 Series



Electronic circuit breaker; 1-channel; 24 VDC input voltage; adjustable 1 … 8 A; Signal contact

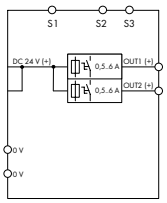
Item No.	Pack. Unit
787-2861/108-020	1



Features:
- Space-saving ECB with one channel
- Reliably and safely trips in the event of an overload and short circuit on the secondary side
- Switch-on capacity > 50.000 µF
- Enables the use of an economical, standard power supply
- Minimizes wiring via two voltage outputs and maximizes commoning options on both input and output sides (e.g., commoning of the output voltage on 857 and 2857 Series devices)
- Status signal – adjustable as single or group message
- Reset, switch on/off via remote input or local switch
- Prevents power supply overload due to total inrush current thanks to time-delayed switching on during interconnected operation

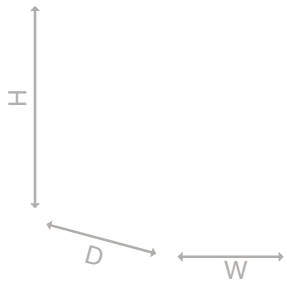
Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	18 … 30 VDC
Output	
Total number of channels (module)	1
Nominal output voltage $U_{o\,nom}$	1 x 24 VDC
Output voltage range	18 … 30 VDC (U_i – Voltage drop)
Voltage drop	≤ 25 mV
Nominal output current $I_{o\,nom}$	1 x 1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 A (adjustable)
Trip time	4 ms … 100 s
Switch-on capacity	> 50.000 µF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 170 ms/max. 500 ms)
Active current limitation	No
Signaling and Communication	
Signaling	1 x Status LED (green/yellow/red/blue/violet); 1 x Control input; 1 x Active signal output (U_i, max. 4 mA)
Remote input	18 … 30 VDC signal, switches on/off and resets the channel
Efficiency/Power Losses	
Power loss P_l	≤ 0.36 W (no load)
Efficiency (typ.)	96 %
Fuse Protection	
Internal fuse	T 15 A
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	1.262.142 h (per MIL-HDBK-217F2)
Surrounding air temperature (operation)	–25 … +70 °C (derating must be observed)
Relative humidity	10 … 95 % (no condensation permissible)
Derating	See instruction manual
Pollution degree	2
Connection Data	
Number of jumper slots	8
Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.08 … 2.5 mm² / 28 … 14 AWG
Fine-stranded conductor	0.34 … 2.5 mm² / 22 … 14 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	6 x 97.8 x 94; height from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	38.4 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61000-6-2; EN 61000-6-3; UL 61010-2-201; DNV GL* (*pending)

Electronic Circuit Breaker; with Active Current Limitation; 24 VDC / 0.5 … 6 A
787 Series



Electronic circuit breaker; 2-channel; 24 VDC input voltage; adjustable 0.5 … 6 A; active current limitation; communication capability

	Item No.	Pack. Unit
	787-1662/006-1000	1

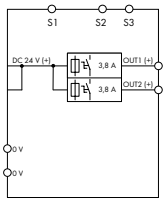


Features:
- Space-saving ECB with two channels
- Nominal current: 0.5 … 6 A (adjustable for each channel via sealable selector switch)
- Active current limitation
- Switch-on capacity > 65.000 µF per channel
- One illuminated, three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Time-delayed switching of channels
- Tripped message (group signal)
- Status message for each channel via pulse sequence
- Remote input resets tripped channels or switches on/off any number of channels via pulse sequence

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	18 … 30 VDC
Output	
Total number of channels (module)	2
Nominal output voltage $U_{o\,nom}$	2 x 24 VDC
Output voltage range	18 … 30 VDC (U_i – Voltage drop)
Voltage drop	≤ 145 mV (6 A)
Nominal output current $I_{o\,nom}$	2 x 0.5 / 1 / 2 / 3 / 4 / 6 A (adjustable for each channel via selector switch)
Trip time	16 ms … 5 s (load-dependent)
Switch-on capacity	> 65.000 µF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 50 ms / max. 5 s)
Active current limitation	Yes
Current limitation	1.7 x $I_{o\,nom}$ typ.
Signaling and Communication	
Signaling	2 x LED (green/red/orange); 1 x Remote control input (S1); 2 x active signal output (S2; S3)
Remote input	Reactivation of all tripped channels via 15 … 30 VDC pulse for min. 500 ms; Switching on/off any number of channels via pulse sequence
Efficiency/Power Losses	
Power loss P_l	≤ 0.55 W (no load); ≤ 2.5 W (2 x 6 A)
Efficiency (typ.)	99 %
Fuse Protection	
Internal fuse	T 15 A per channel
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	No derating
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (+) (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Input (–); Output; Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	45 x 90 x 115.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	170 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; EN 61000-6-2; EN 61000-6-3; UL 508; UL 2367; DNV GL

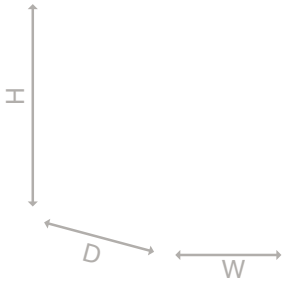
Electronic Circuit Breaker; with Active Current Limitation; 24 VDC / 3.8 A
787 Series

Similar to picture



Electronic circuit breaker; 2-channel; 24 VDC input voltage; 3.8 A; active current limitation; NEC Class 2; communication capability

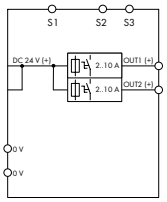
	Item No.	Pack. Unit
	787-1662/004-1000	1



Features:
- Space-saving ECB with two channels
- Nominal current is fixed at 3.8 A for each channel
- Each output complies with NEC Class 2
- Active current limitation
- Switch-on capacity > 65.000 µF per channel
- One illuminated, three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Time-delayed switching of channels
- Tripped message (group signal)
- Status message for each channel via pulse sequence
- Remote input resets tripped channels or switches on/off any number of channels via pulse sequence

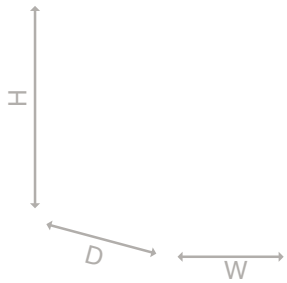
Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	20 … 28.8 VDC
Output	
Total number of channels (module)	2
Nominal output voltage $U_{o\,nom}$	2 x 24 VDC
Output voltage range	20 … 28.8 VDC (U_i – Voltage drop)
Voltage drop	≤ 125 mV (3.8 A)
Nominal output current $I_{o\,nom}$	2 x 3.8 A (fixed setting; NEC Class 2 at 20 … 24 VDC); 2 x 3.2 A (NEC Class 2 at 28 VDC)
Trip time	16 ms … 4.7 s (load-dependent)
Switch-on capacity	> 65.000 µF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 50 ms / max. 5 s)
Active current limitation	Yes
Current limitation	3.8 A (3.2 A at U_o > 25 VDC); LPS per NEC Class 2
Signaling and Communication	
Signaling	2 x LED (green/red/orange); 1 x Remote control input (S1); 2 x active signal output (S2; S3)
Remote input	Reactivation of all tripped channels via 15 … 30 VDC pulse for min. 500 ms; Switching on/off any number of channels via pulse sequence
Efficiency/Power Losses	
Power loss P_l	≤ 0.65 W (no load); ≤ 1.6 W (2 x 3.8 A)
Efficiency (typ.)	99 %
Fuse Protection	
Internal fuse	No
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	No derating
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (+) (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Input (–); Output; Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	45 x 90 x 115.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	200 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; EN 61000-6-2; EN 61000-6-3; UL 508; UL 2367

Electronic Circuit Breaker; 24 VDC / 2 … 10 A
787 Series



Electronic circuit breaker; 2-channel; 24 VDC input voltage; adjustable 2 … 10 A; communication capability

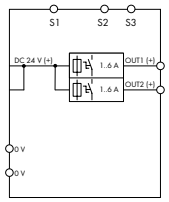
Item No.	Pack. Unit
787-1662	1



Features:
- Space-saving ECB with two channels
- Nominal current: 2 … 10 A (adjustable for each channel via sealable selector switch)
- Switch-on capacity > 50.000 µF per channel
- One illuminated, three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Time-delayed switching of channels
- Tripped message (group signal)
- Status message for each channel via pulse sequence
- Remote input for switching on/off any number of channels via pulse sequence

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	18 … 30 VDC
Output	
Total number of channels (module)	2
Nominal output voltage $U_{o\,nom}$	2 x 24 VDC
Output voltage range	18 … 30 VDC (U_i – Voltage drop)
Voltage drop	≤ 200 mV (Eingang (+))
Nominal output current $I_{o\,nom}$	2 x 2 / 3 / 4 / 6 / 8 / 10 A (adjustable for each channel via selector switch)
Trip time	16 ms … 100 s (load-dependent)
Switch-on capacity	> 50.000 µF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 50 ms / max. 5 s)
Active current limitation	No
Signaling and Communication	
Signaling	2 x LED (green/red/orange); 1 x Remote control input (S1); 2 x active signal output (S2; S3)
Remote input	Reactivation of all tripped channels via 15 … 30 VDC pulse for min. 500 ms; Switching on/off any number of channels via pulse sequence
Efficiency/Power Losses	
Power loss P_l	≤ 0.85 W (no load); ≤ 5.5 W (2 x 10 A)
Efficiency (typ.)	99 %
Fuse Protection	
Internal fuse	T 15 A per channel
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	No derating
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (+) (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Input (–); Output; Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	45 x 90 x 115.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	200 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61000-6-2; EN 61000-6-3; UL 508; UL 2367; DNV GL

Electronic Circuit Breaker; 24 VDC / 1 … 6 A
787 Series



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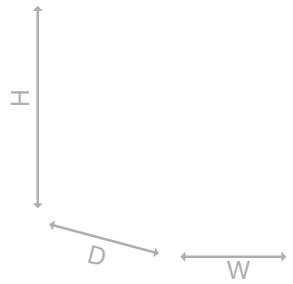
Electronic circuit breaker; 2-channel; 24 VDC input voltage; adjustable 1 … 6 A; communication capability

Item No.	Pack. Unit
787-1662/106-000	1

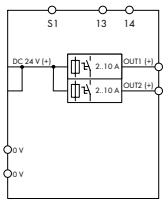


Features:
- Space-saving ECB with two channels
- Nominal current: 1 … 6 A (adjustable for each channel via sealable selector switch)
- Switch-on capacity > 50.000 µF per channel
- One illuminated, three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Time-delayed switching of channels
- Tripped message (group signal)
- Status message for each channel via pulse sequence
- Remote input for switching on/off any number of channels via pulse sequence

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	18 … 30 VDC
Output	
Total number of channels (module)	2
Nominal output voltage $U_{o\,nom}$	2 x 24 VDC
Output voltage range	18 … 30 VDC (U_i – Voltage drop)
Voltage drop	≤ 120 mV (Input (+))
Nominal output current $I_{o\,nom}$	2 x 1 / 2 / 3 / 4 / 5 / 6 A (adjustable for each channel via selector switch)
Trip time	16 ms … 100 s (load-dependent)
Switch-on capacity	> 50.000 µF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 50 ms / max. 5 s)
Active current limitation	No
Signaling and Communication	
Signaling	2 x LED (green/red/orange); 1 x Remote control input (S1); 2 x active signal output (S2; S3)
Remote input	Reactivation of all tripped channels via 15 … 30 VDC pulse for min. 500 ms; Switching on/off any number of channels via pulse sequence
Efficiency/Power Losses	
Power loss P_l	≤ 0.85 W (no load); ≤ 5.5 W (2 x 6 A)
Efficiency (typ.)	99 %
Fuse Protection	
Internal fuse	T 15 A per channel
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	No derating
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (+) (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Input (–); Output; Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	45 x 90 x 115.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	200 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; EN 61000-6-2; EN 61000-6-3; UL 508; UL 2367; DNV GL

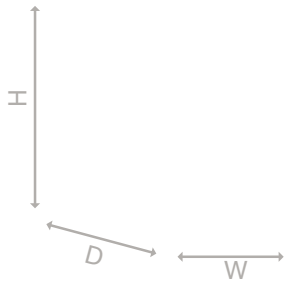
Electronic Circuit Breaker; 24 VDC / 2 … 10 A
787 Series

Similar to picture



Electronic circuit breaker; 2-channel; 24 VDC input voltage; adjustable 2 … 10 A; Signal contact; Specialty configuration

	Item No.	Pack. Unit
	787-1662/000-054	1



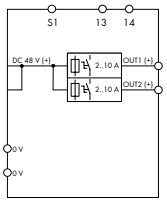
Features:

- Space-saving ECB with two channels
- Nominal current: 2 … 10 A (adjustable for each channel via sealable selector switch)
- Switch-on capacity > 50.000 µF per channel
- One illuminated, three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Time-delayed switching of channels
- Tripped message (group signal)
- Potential-free signal contact 13/14 reports "channel switched off" and "tripped channel" – does not support communication via pulse sequence

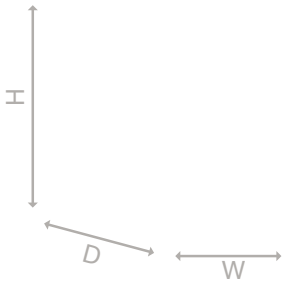
Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	18 … 30 VDC
Output	
Total number of channels (module)	2
Nominal output voltage $U_{o\,nom}$	2 x 24 VDC
Output voltage range	18 … 30 VDC (U_i – Voltage drop)
Voltage drop	≤ 200 mV (Input (+))
Nominal output current $I_{o\,nom}$	2 x 2 / 3 / 4 / 6 / 8 / 10 A (adjustable for each channel via selector switch)
Trip time	16 ms … 100 s (load-dependent)
Switch-on capacity	> 50.000 µF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 50 ms / max. 5 s)
Active current limitation	No
Signaling and Communication	
Signaling	2 x LED (green/red/orange); 1 x Remote control input (S1); 1 x Group signal contact (13; 14)
Remote input	Reactivation of all tripped channels via 15 … 30 VDC pulse for min. 500 ms
Efficiency/Power Losses	
Power loss P_l	≤ 0.84 W (no load); ≤ 5.5 W (2 x 10 A)
Efficiency (typ.)	99 %
Fuse Protection	
Internal fuse	T 15 A per channel
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	No derating
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (+) (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Input (–); Output; Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	45 x 90 x 115.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	161 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; EN 61000-6-2; EN 61000-6-3; UL 508; UL 2367; DNV GL

Electronic Circuit Breaker; 48 VDC / 2 … 10 A
787 Series

Similar to picture



Electronic Circuit Breaker; 2-channel; Input voltage: 48 VDC; adjustable 2 … 10 A; Signal contact		
	Item No.	Pack. Unit
	787-1662/000-250	1

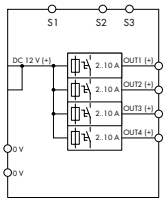


Features:
- Space-saving ECB with two channels
- Nominal current: 2 … 10 A (adjustable for each channel via sealable selector switch)
- Switch-on capacity > 23.000 µF per channel
- One illuminated, three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Time-delayed switching of channels
- Tripped message (group signal)
- Remote input resets all tripped channels
- Potential-free signal contact 13/14 reports “channel switched off” and “tripped channel” – does not support communication via pulse sequence

Input	
Nominal input voltage $U_{i\,nom}$	48 VDC
Input voltage range	32 … 58 VDC
Output	
Total number of channels (module)	2
Nominal output voltage $U_{o\,nom}$	2 x 48 VDC
Output voltage range	32 … 58 VDC (U_i – Voltage drop)
Voltage drop	≤ 175 mV (Input (+))
Nominal output current $I_{o\,nom}$	2 x 2 / 3 / 4 / 6 / 8 / 10 A (adjustable for each channel via selector switch)
Trip time	16 ms … 100 s (load-dependent)
Switch-on capacity	> 23.000 µF per channel at 48 VDC, 2.5 mm² cable cross section and 2.5 m cable length
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 50 ms / max. 5 s)
Active current limitation	No
Signaling and Communication	
Signaling	2 x LED (green/red/orange); 1 x Remote control input (S1); 1 x Group signal contact (13; 14)
Remote input	Reactivation of all tripped channels via 15 … 58 VDC pulse for min. 500 ms
Efficiency/Power Losses	
Power loss P_l	≤ 0.84 W (no load); ≤ 4.5 W (2 x 10 A)
Efficiency (typ.)	99 %
Fuse Protection	
Internal fuse	T 15 A per channel
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	No derating
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (+) (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Input (–); Output; Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	45 x 90 x 115.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	170 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; EN 61000-6-2; EN 61000-6-3; UL 508; UL 2367; DNV GL

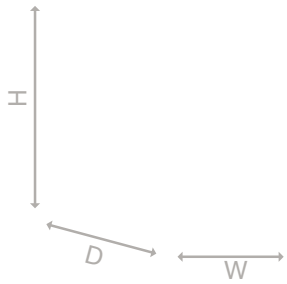
Electronic Circuit Breaker; 12 VDC / 2 … 10 A
787 Series

Similar to picture



Electronic circuit breaker; 4-channel; Nominal input voltage: 12 VDC; adjustable 2 … 10 A; communication capability

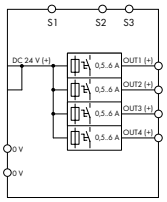
	Item No.	Pack. Unit
	787-1664/000-100	1



Features:
- Space-saving ECB with four channels
- Nominal current: 2 … 10 A (adjustable for each channel via sealable selector switch)
- Switch-on capacity > 50.000 µF per channel
- One illuminated, three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Time-delayed switching of channels
- Tripped message (group signal)
- Status message for each channel via pulse sequence
- Remote input resets tripped channels or switches on/off any number of channels via pulse sequence

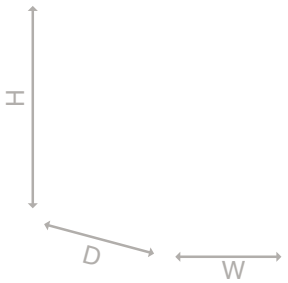
Input	
Nominal input voltage $U_{i\,nom}$	12 VDC
Input voltage range	10 … 16 VDC
Output	
Total number of channels (module)	4
Nominal output voltage $U_{o\,nom}$	4 x 12 VDC
Output voltage range	10 … 16 VDC (U_i – Voltage drop)
Voltage drop	≤ 200 mV (Input (+))
Nominal output current $I_{o\,nom}$	4 x 2 / 3 / 4 / 6 / 8 / 10 A (adjustable for each channel via selector switch)
Trip time	16 ms … 100 s (load-dependent)
Switch-on capacity	> 50.000 µF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 50 ms / max. 5 s)
Active current limitation	No
Signaling and Communication	
Signaling	4 x LED (green/red/orange); 1 x Remote control input (S1); 2 x Active signal output (S2; S3)
Remote input	Reactivation of all tripped channels via 9 … 30 VDC pulse for min. 500 ms; Switching on/off any number of channels via pulse sequence
Efficiency/Power Losses	
Power loss P_l	≤ 0.53 W (no load); ≤ 10 W (4 x 10 A)
Efficiency (typ.)	99 %
Fuse Protection	
Internal fuse	T 15 A per channel
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	≥ +50 °C (see instruction manual)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (+) (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Input (–); Output; Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	45 x 90 x 115.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	170 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; EN 61000-6-2; EN 61000-6-3; UL 508; UL 2367; DNV GL

Electronic Circuit Breaker; with Active Current Limitation; 24 VDC / 0.5 … 6 A
787 Series



Electronic circuit breaker; 4-channel; 24 VDC input voltage; adjustable 0.5 … 6 A; active current limitation; communication capability

	Item No.	Pack. Unit
	787-1664/006-1000	1

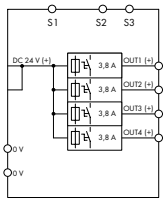


Features:
- Space-saving ECB with four channels
- Nominal current: 0.5 … 6 A (adjustable for each channel via sealable selector switch)
- Active current limitation
- High switch-on capacity per channel
- One illuminated, three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Time-delayed switching of channels
- Tripped message (group signal)
- Status message for each channel via pulse sequence
- Remote input resets all tripped channels
- Remote input for switching on/off any number of channels via pulse sequence

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	18 … 30 VDC
Output	
Total number of channels (module)	4
Nominal output voltage $U_{o\,nom}$	4 x 24 VDC
Output voltage range	18 … 30 VDC (U_i – Voltage drop)
Voltage drop	≤ 145 mV (Input (+))
Nominal output current $I_{o\,nom}$	4 x 0.5 / 1 / 2 / 3 / 4 / 6 A (adjustable for each channel via selector switch)
Trip time	16 ms … 5 s (load-dependent)
Switch-on capacity	> 65.000 µF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 50 ms / max. 5 s)
Active current limitation	Yes
Current limitation	1.7 x $I_{o\,nom}$ typ.
Signaling and Communication	
Signaling	4 x LED (green/red/orange); 1 x Remote control input (S1); 2 x Active signal output (S2; S3)
Remote input	Reactivation of all tripped channels via 15 … 30 VDC pulse for min. 500 ms; Switching on/off any number of channels via pulse sequence
Efficiency/Power Losses	
Power loss P_l	≤ 0.77 W (no load); ≤ 4.3 W (4 x 6 A)
Efficiency (typ.)	99 %
Fuse Protection	
Internal fuse	T 15 A per channel
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	No derating
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (+) (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Input (–); Output; Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	45 x 90 x 115.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	170 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; EN 61000-6-2; EN 61000-6-3; UL 508; UL 2367; DNV GL

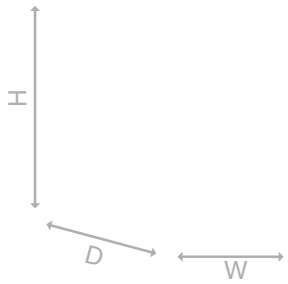
Electronic Circuit Breaker; with Active Current Limitation; 24 VDC / 3.8 A
787 Series

Similar to picture



Electronic circuit breaker; 4-channel; 24 VDC input voltage; 3.8 A; active current limitation; NEC Class 2; communication capability

	Item No.	Pack. Unit
	787-1664/004-1000	1

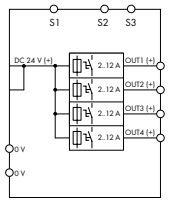


Features:
- Space-saving ECB with four channels
- Nominal current is fixed at 3.8 A for each channel
- Each output complies with NEC Class 2
- Active current limitation
- High switch-on capacity per channel
- One illuminated, three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Time-delayed switching of channels
- Tripped message (group signal)
- Status message for each channel via pulse sequence
- Remote input resets all tripped channels
- Remote input for switching on/off any number of channels via pulse sequence

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	20 … 28.8 VDC
Output	
Total number of channels (module)	4
Nominal output voltage $U_{o\,nom}$	4 x 24 VDC
Output voltage range	20 … 28.8 VDC (U_i – Voltage drop)
Voltage drop	≤ 150 mV (Input (+))
Nominal output current $I_{o\,nom}$	4 x 3.8 A (fixed setting; NEC Class 2 at 20 … 24 VDC); 4 x 3.2 A (NEC Class 2 at 28 VDC)
Trip time	16 ms … 4.7 s (load-dependent)
Switch-on capacity	> 65.000 µF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 50 ms / max. 5 s)
Active current limitation	Yes
Current limitation	3.8 A (3.2 A at U_o > 25 VDC); LPS per NEC Class 2
Signaling and Communication	
Signaling	4 x LED (green/red/orange); 1 x Remote control input (S1); 2 x Active signal output (S2; S3)
Remote input	Reactivation of all tripped channels via 15 … 30 VDC pulse for min. 500 ms; Switching on/off any number of channels via pulse sequence
Efficiency/Power Losses	
Power loss P_l	≤ 0.82 W (no load); ≤ 3.1 W (4 x 3.8 A)
Efficiency (typ.)	99 %
Fuse Protection	
Internal fuse	No
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	No derating
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (+) (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Input (–); Output; Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	45 x 90 x 115.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	205 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; EN 61000-6-2; EN 61000-6-3; UL 508; UL 2367

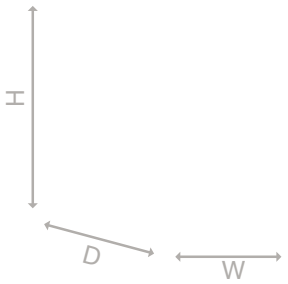
Electronic Circuit Breaker; with Active Current Limitation; 24 VDC / 2 … 12 A
787 Series

Similar to picture



Electronic circuit breaker; 4-channel; 24 VDC input voltage; adjustable 2 … 12 A; active current limitation; communication capability

	Item No.	Pack. Unit
	787-1664/212-1000	1

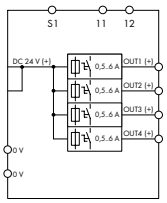


Features:
- Space-saving ECB with four channels
- Nominal current: 2 … 12 A (adjustable for each channel via sealable selector switch)
- Active current limitation
- High switch-on capacity per channel
- One illuminated, three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Time-delayed switching of channels
- Tripped message (group signal)
- Status message for each channel via pulse sequence
- Remote input resets all tripped channels
- Remote input for switching on/off any number of channels via pulse sequence

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	18 … 30 VDC
Output	
Total number of channels (module)	4
Nominal output voltage $U_{o\,nom}$	4 x 24 VDC
Output voltage range	18 … 30 VDC (U_i – Voltage drop)
Voltage drop	≤ 240 mV (Input (+))
Nominal output current $I_{o\,nom}$	4 x 2 / 4 / 6 / 8 / 10 / 12 A (adjustable for each channel via selector switch)
Trip time	16 ms … 5 s (load-dependent)
Switch-on capacity	> 65.000 µF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 50 ms / max. 5 s)
Active current limitation	Yes
Current limitation	1.7 x $I_{o\,nom}$ typ.
Signaling and Communication	
Signaling	4 x LED (green/red/orange); 1 x Remote control input (S1); 2 x Active signal output (S2; S3)
Remote input	Reactivation of all tripped channels via 15 … 30 VDC pulse for min. 500 ms; Switching on/off any number of channels via pulse sequence
Efficiency/Power Losses	
Power loss P_l	≤ 0.77 W (no load); ≤ 12.3 W (4 x 12 A)
Efficiency (typ.)	99 %
Fuse Protection	
Internal fuse	T 15 A per channel
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	No derating
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (+) (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Input (–); Output; Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	45 x 90 x 115.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	170 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; EN 61000-6-2; EN 61000-6-3; UL 508; UL 2367; DNV GL

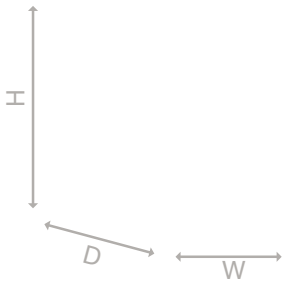
Electronic Circuit Breaker; with Active Current Limitation; 24 VDC / 0.5 … 6 A
787 Series

Similar to picture



Electronic circuit breaker; 4-channel; 24 VDC input voltage; adjustable 0.5 … 6 A; active current limitation; Signal contact; Specialty configuration

	Item No.	Pack. Unit
	787-1664/006-1054	1

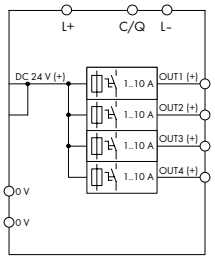


Features:

- Space-saving ECB with four channels
- Nominal current: 0.5 … 6 A (adjustable for each channel via sealable selector switch)
- Active current limitation
- High switch-on capacity per channel
- One illuminated, three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Time-delayed switching of channels
- Tripped message (group signal)
- Remote input resets all tripped channels
- Potential-free signal contact 11/12 reports “channel switched off” and “tripped channel” – does not support communication via pulse sequence

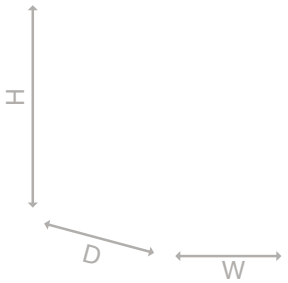
Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	18 … 30 VDC
Output	
Total number of channels (module)	4
Nominal output voltage $U_{o\,nom}$	4 x 24 VDC
Output voltage range	18 … 30 VDC (U_i – Voltage drop)
Voltage drop	≤ 145 mV (Input (+))
Nominal output current $I_{o\,nom}$	4 x 0.5 / 1 / 2 / 3 / 4 / 6 A (adjustable for each channel via selector switch)
Trip time	16 ms … 5 s (load-dependent)
Switch-on capacity	> 58.000 µF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 50 ms / max. 5 s)
Active current limitation	Yes
Current limitation	1.3 x $I_{o\,nom}$ typ.
Signaling and Communication	
Signaling	4 x LED (green/red/orange); 1 x Remote control input (S1); 1 x Group signal contact (11; 12)
Remote input	Reactivation of all tripped channels via 15 … 30 VDC pulse for min. 500 ms
Efficiency/Power Losses	
Power loss P_l	≤ 0.77 W (no load); ≤ 4.3 W (4 x 6 A)
Efficiency (typ.)	99 %
Fuse Protection	
Internal fuse	T 15 A per channel
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	No derating
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (+) (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Input (–); Output; Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	45 x 90 x 115.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	170 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; EN 61000-6-2; EN 61000-6-3; UL 508; UL 2367; DNV GL

Electronic Circuit Breaker; 24 VDC / 1 … 10 A
787 Series



Electronic circuit breaker; 4-channel; 24 VDC input voltage; adjustable 1 … 10 A; IO-Link

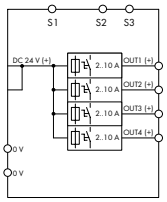
Item No.	Pack. Unit
787-1664/000-080	1



Features:
- Space-saving ECB with four channels
- Nominal current: 1 … 10 A (adjustable for each channel via sealable selector switch or IO-Link interface)
- Switch-on capacity > 50.000 µF per channel
- One illuminated, three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Time-delayed switching of channels
- Status message and current measurement of each individual channel via IO-Link interface
- Switch on/off each channel separately via IO-Link interface

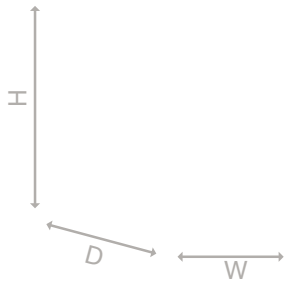
Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	18 … 30 VDC
Output	
Total number of channels (module)	4
Nominal output voltage $U_{o\,nom}$	4 x 24 VDC
Output voltage range	18 … 30 VDC (U_i – Voltage drop)
Voltage drop	≤ 200 mV (Input (+))
Nominal output current $I_{o\,nom}$	4 x 1 / 2 / 3 / 4 / 6 / 8 / 10 A (adjustable for each channel via IO-Link interface; 1, 2, 4, 6, 10 A (adjustable for each channel via selector switch)
Trip time	16 ms … 100 s (load-dependent)
Switch-on capacity	> 50.000 µF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 50 ms / max. 5 s)
Active current limitation	No
Signaling and Communication	
Signaling	4 x LED (green/red/orange); 1 x IO-Link interface
Remote input	Switching on/off any number of channels via IO-Link interface
Efficiency/Power Losses	
Power loss P_l	≤ 0.84 W (no load); ≤ 10 W (4 x 10 A)
Efficiency (typ.)	99 %
Fuse Protection	
Internal fuse	T 15 A per channel
Safety and Protection/Environmental Requirements	
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	≥ +50 °C (see instruction manual)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (+) (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Input (–); Output; Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	45 x 90 x 115.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	170 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; EN 61000-6-2; EN 61000-6-3; UL 508; UL 2367; DNV GL

Electronic Circuit Breaker; 24 VDC / 2 … 10 A
787 Series



Electronic circuit breaker; 4-channel; 24 VDC input voltage; adjustable 2 … 10 A; communication capability

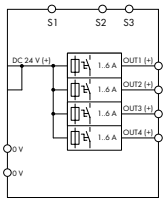
Item No.	Pack. Unit
787-1664	1



Features:
- ECB with four channels, parametrizable
- Time-delayed switching of channels
- Tripped message (group signal)
- Remote input resets all tripped channels
- One illuminated, three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Status message for each channel via pulse sequence
- Remote input for switching on/off any number of channels via pulse sequence

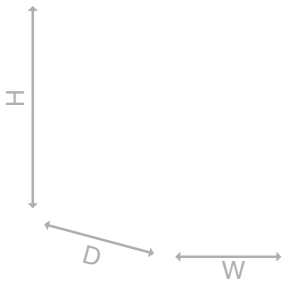
Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	18 … 30 VDC
Output	
Total number of channels (module)	4
Nominal output voltage $U_{o\,nom}$	4 x 24 VDC
Output voltage range	18 … 30 VDC (U_i – Voltage drop)
Voltage drop	≤ 200 mV (Input (+))
Nominal output current $I_{o\,nom}$	4 x 2 / 3 / 4 / 6 / 8 / 10 A (adjustable for each channel via selector switch)
Trip time	16 ms … 100 s (load-dependent)
Switch-on capacity	> 50.000 µF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 50 ms / max. 5 s)
Active current limitation	No
Signaling and Communication	
Signaling	4 x LED (green/red/orange); 1 x Remote control input (S1); 2 x Active signal output (S2; S3)
Remote input	Reactivation of all tripped channels via 15 … 30 VDC pulse for min. 500 ms; Switching on/off any number of channels via pulse sequence
Efficiency/Power Losses	
Power loss P_l	≤ 0.84 W (no load); ≤ 10 W (4 x 10 A)
Efficiency (typ.)	99 %
Fuse Protection	
Internal fuse	T 15 A per channel
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	≥ +50 °C (see instruction manual)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (+) (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Input (–); Output; Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	45 x 90 x 115.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	170 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; EN 61000-6-2; EN 61000-6-3; UL 508; UL 2367; DNV GL

Electronic Circuit Breaker; 24 VDC / 1 … 6 A
787 Series



Electronic circuit breaker; 4-channel; 24 VDC input voltage; adjustable 1 … 6 A; communication capability

Item No.	Pack. Unit
787-1664/106-000	1

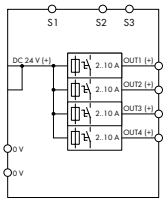


Features:
- ECB with four channels, parametrizable
- Time-delayed switching of channels
- Tripped message (group signal)
- Remote input resets all tripped channels
- One illuminated, three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Status message for each channel via pulse sequence
- Remote input for switching on/off any number of channels via pulse sequence

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	18 … 30 VDC
Output	
Total number of channels (module)	4
Nominal output voltage $U_{o\,nom}$	4 x 24 VDC
Output voltage range	18 … 30 VDC (U_i – Voltage drop)
Voltage drop	≤ 120 mV (Input (+))
Nominal output current $I_{o\,nom}$	4 x 1 / 2 / 3 / 4 / 5 / 6 A (adjustable for each channel via selector switch)
Trip time	16 ms … 100 s (load-dependent)
Switch-on capacity	> 50.000 µF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 50 ms / max. 5 s)
Active current limitation	No
Signaling and Communication	
Signaling	4 x LED (green/red/orange); 1 x Remote control input (S1); 2 x Active signal output (S2; S3)
Remote input	Reactivation of all tripped channels via 15 … 30 VDC pulse for min. 500 ms; Switching on/off any number of channels via pulse sequence
Efficiency/Power Losses	
Power loss P_l	≤ 0.84 W (no load); ≤ 4.2 W (4 x 6 A)
Efficiency (typ.)	99 %
Fuse Protection	
Internal fuse	T 15 A per channel
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	No derating
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (+) (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Input (–); Output; Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	45 x 90 x 115.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	210 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; EN 61000-6-2; EN 61000-6-3; UL 508; UL 2367; DNV GL

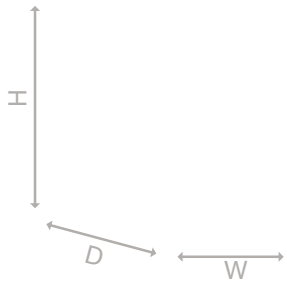
Electronic Circuit Breaker; 24 VDC / 2 … 10 A
787 Series

Similar to picture



Electronic circuit breaker; 4-channel; 24 VDC input voltage; adjustable 2 … 10 A; communication capability; Specialty configuration

Item No.	Pack. Unit
787-1664/000-004	1

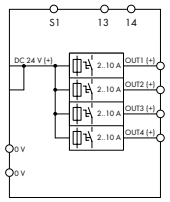


Features:
- ECB with four channels, parametrizable
- Time-delayed switching of channels
- Tripped message (group signal)
- Remote input resets all tripped channels
- One illuminated, three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Status message for each channel via pulse sequence
- Remote input for switching on/off any number of channels via pulse sequence
- Group signal S3 reports “channel switched off” and “tripped channel”

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	18 … 30 VDC
Output	
Total number of channels (module)	4
Nominal output voltage $U_{o\,nom}$	4 x 24 VDC
Output voltage range	18 … 30 VDC (U_i – Voltage drop)
Voltage drop	≤ 200 mV (Input (+))
Nominal output current $I_{o\,nom}$	4 x 2 / 3 / 4 / 6 / 8 / 10 A (adjustable for each channel via selector switch)
Trip time	16 ms … 100 s (load-dependent)
Switch-on capacity	> 50.000 µF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 50 ms / max. 5 s)
Active current limitation	No
Signaling and Communication	
Signaling	4 x LED (green/red/orange); 1 x Remote control input (S1); 2 x Active signal output (S2; S3)
Remote input	Reactivation of all tripped channels via 15 … 30 VDC pulse for min. 500 ms; Switching on/off any number of channels via pulse sequence
Efficiency/Power Losses	
Power loss P_l	≤ 0.84 W (no load); ≤ 10 W (4 x 10 A)
Efficiency (typ.)	99 %
Fuse Protection	
Internal fuse	T 15 A per channel
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	≥ +50 °C (see instruction manual)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (+) (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Input (–); Output; Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	45 x 90 x 115.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	161 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; EN 61000-6-2; EN 61000-6-3; UL 508; UL 2367; DNV GL

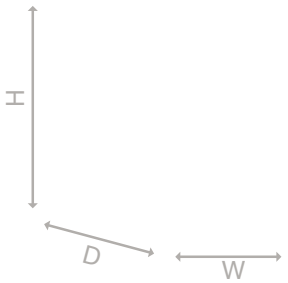
Electronic Circuit Breaker; 24 VDC / 2 … 10 A
787 Series

Similar to picture



Electronic circuit breaker; 4-channel; 24 VDC input voltage; adjustable 2 … 10 A; Signal contact; Specialty configuration

	Item No.	Pack. Unit
	787-1664/000-054	1

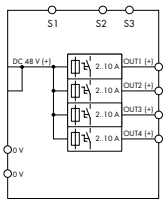


Features:
- ECB with four channels, parametrizable
- Time-delayed switching of channels
- Potential-free signal contact 13 / 14 reports “channel switched off” and “tripped channel” – does not support communication via pulse sequence
- Tripped message (group signal)
- Remote input resets all tripped channels
- One illuminated, three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	18 … 30 VDC
Output	
Total number of channels (module)	4
Nominal output voltage $U_{o\,nom}$	4 x 24 VDC
Output voltage range	18 … 30 VDC (U_i – Voltage drop)
Voltage drop	≤ 200 mV (Input (+))
Nominal output current $I_{o\,nom}$	4 x 2 / 3 / 4 / 6 / 8 / 10 A (adjustable for each channel via selector switch)
Trip time	16 ms … 100 s (load-dependent)
Switch-on capacity	> 50.000 µF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 50 ms / max. 5 s)
Active current limitation	No
Signaling and Communication	
Signaling	4 x LED (green/red/orange); 1 x Remote control input (S1); 1 x Group signal contact (13; 14)
Remote input	Reactivation of all tripped channels via 15 … 30 VDC pulse for min. 500 ms
Efficiency/Power Losses	
Power loss P_l	≤ 0.84 W (no load); ≤ 10 W (4 x 10 A)
Efficiency (typ.)	99 %
Fuse Protection	
Internal fuse	T 15 A per channel
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	≥ +50 °C (see instruction manual)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (+) (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Input (–); Output; Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	45 x 90 x 115.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	170 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; EN 61000-6-2; EN 61000-6-3; UL 508; UL 2367; DNV GL

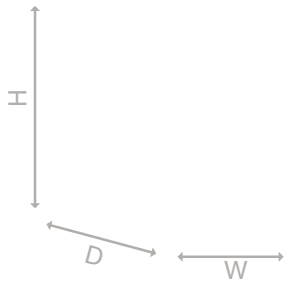
Electronic Circuit Breaker; 48 VDC / 2 … 10 A
787 Series

Similar to picture



Electronic circuit breaker; 4-channel; 48 VDC input voltage; adjustable 2 … 10 A; communication capability

Item No.	Pack. Unit
787-1664/000-200	1



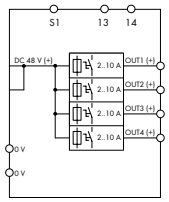
Features:

- Space-saving ECB with four channels
- Nominal current: 2 … 10 A (adjustable for each channel via sealable selector switch)
- Switch-on capacity > 23.000 µF per channel
- One illuminated, three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Time-delayed switching of channels
- Tripped message (group signal)
- Status message for each channel via pulse sequence
- Remote input resets all tripped channels
- Remote input for switching on/off any number of channels via pulse sequence

Input	
Nominal input voltage $U_{i\,nom}$	48 VDC
Input voltage range	32 … 58 VDC
Output	
Total number of channels (module)	4
Nominal output voltage $U_{o\,nom}$	4 x 48 VDC
Output voltage range	32 … 58 VDC (U_i – Voltage drop)
Voltage drop	≤ 175 mV (Input (+))
Nominal output current $I_{o\,nom}$	4 x 2 / 3 / 4 / 6 / 8 / 10 A (adjustable for each channel via selector switch)
Trip time	16 ms … 100 s (load-dependent)
Switch-on capacity	> 23.000 µF per channel at 48 VDC, 2.5 mm² cable cross section and 2.5 m cable length
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 50 ms / max. 5 s)
Active current limitation	No
Signaling and Communication	
Signaling	4 x LED (green/red/orange); 1 x Remote control input (S1); 2 x Active signal output (S2; S3)
Remote input	Reactivation of all tripped channels via 15 … 58 VDC pulse for min. 500 ms; Switching on/off any number of channels via pulse sequence
Efficiency/Power Losses	
Power loss P_l	≤ 0.84 W (no load); ≤ 8 W (4 x 10 A)
Efficiency (typ.)	99 %
Fuse Protection	
Internal fuse	T 15 A per channel
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	≥ +50 °C (see instruction manual)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (+) (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Input (–); Output; Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	45 x 90 x 115.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	170 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; EN 61000-6-2; EN 61000-6-3; UL 508; UL 2367; DNV GL

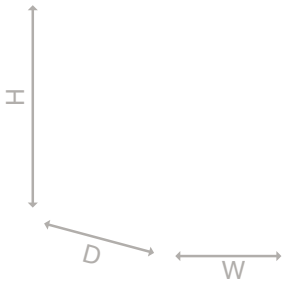
Electronic Circuit Breaker; 48 VDC / 2 … 10 A
787 Series

Similar to picture



Electronic circuit breaker; 4-channel; 48 VDC input voltage; adjustable 2 … 10 A; Signal contact

Item No.	Pack. Unit
787-1664/000-250	1

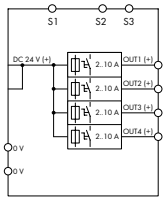


Features:
- Space-saving ECB with four channels
- Nominal current: 2 … 10 A (adjustable for each channel via sealable selector switch)
- Switch-on capacity > 23.000 µF per channel
- One illuminated, three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Time-delayed switching of channels
- Tripped message (group signal)
- Remote input resets all tripped channels
- Potential-free signal contact 13 / 14 reports "channel switched off" and "tripped channel" – does not support communication via pulse sequence

Input	
Nominal input voltage $U_{i\,nom}$	48 VDC
Input voltage range	32 … 58 VDC
Output	
Total number of channels (module)	4
Nominal output voltage $U_{o\,nom}$	4 x 48 VDC
Output voltage range	32 … 58 VDC (U_i – Voltage drop)
Voltage drop	≤ 175 mV (Input (+))
Nominal output current $I_{o\,nom}$	4 x 2 / 3 / 4 / 6 / 8 / 10 A (adjustable for each channel via selector switch)
Trip time	16 ms … 100 s (load-dependent)
Switch-on capacity	> 23.000 µF per channel at 48 VDC, 2.5 mm² cable cross section and 2.5 m cable length
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 50 ms / max. 5 s)
Active current limitation	No
Signaling and Communication	
Signaling	4 x LED (green/red/orange); 1 x Remote control input (S1);1 x Group signal contact (13; 14)
Remote input	Reactivation of all tripped channels via 15 … 58 VDC pulse for min. 500 ms
Efficiency/Power Losses	
Power loss P_l	≤ 0.84 W (no load); ≤ 8 W (4 x 10 A)
Efficiency (typ.)	99 %
Fuse Protection	
Internal fuse	T 15 A per channel
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	≥ +50 °C (see instruction manual)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (+) (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Input (–); Output; Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	45 x 90 x 115.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	170 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; EN 61000-6-2; EN 61000-6-3; UL 508; UL 2367; DNV GL

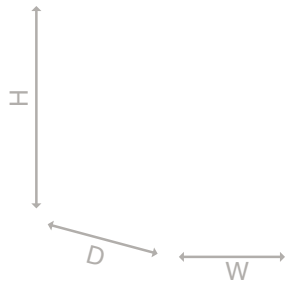
Electronic Circuit Breaker; 24 VDC / 2 … 10 A; NPN Signaling

787 Series



Electronic circuit breaker; 4-channel; 24 VDC input voltage; adjustable 2 … 10 A; communication capability; NPN signaling

	Item No.	Pack. Unit
	787-1664/000-011	1

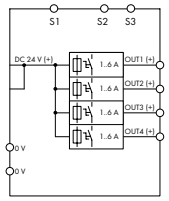


Features:

- WAGO ECB with four channels, parametrizable
- Signal and control contacts with inverted logic (low-side switching signal outputs)
- Time-delayed switching of channels
- One illuminated, three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Message reports status for each channel via pulse sequence
- Group signal reports “channel switched off” and “tripped channel”
- Remote control input for switching on/off any number of channels via pulse sequence
- Remote control input for resetting all tripped channels

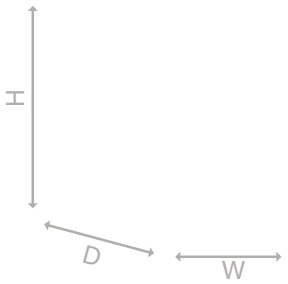
Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	18 … 30 VDC
Output	
Total number of channels (module)	4
Nominal output voltage $U_{o\,nom}$	4 x 24 VDC
Output voltage range	18 … 30 VDC (U_i – Voltage drop)
Voltage drop	≤ 200 mV (Input (+))
Nominal output current $I_{o\,nom}$	4 x 2 / 3 / 4 / 6 / 8 / 10 A (adjustable for each channel via selector switch)
Trip time	16 ms … 100 s (load-dependent)
Switch-on capacity	> 50000 µF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 50 ms / max. 5 s)
Active current limitation	No
Signaling and Communication	
Signaling	4 x LED (green/red/orange); 1 x remote control input with inverted logic (S1); 2 x active signal output, low-side switching (S2; S3)
Remote input	Reactivation of all tripped channels via 15 … 30 VDC pulse for min. 500 ms; Switching on/off any number of channels via pulse sequence
Efficiency/Power Losses	
Power loss P_l	≤ 0.84 W (no load); ≤ 10 W (4 x 10 A)
Efficiency (typ.)	99 %
Fuse Protection	
Internal fuse	T 15 A per channel
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	≥ 50 °C (see instruction manual)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (+) (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Input (–); Output; Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical Data/Mechanical Data/Material Data	
Width x Height x Depth (mm)	45 x 90 x 115.5; Depth from upper-edge of DIN-35 rail
Mounting type	DIN-35 rail
Weight	170 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; EN 61000-6-2; EN 61000-6-3; UL 508; UL 2367; DNV GL

Electronic Circuit Breaker; 24 VDC / 1 … 6 A; NPN Signaling
787 Series



Electronic circuit breaker; 4-channel; 24 VDC input voltage; adjustable 1 … 6 A; communication capability; NPN signaling

Item No.	Pack. Unit
787-1664/106-011	1

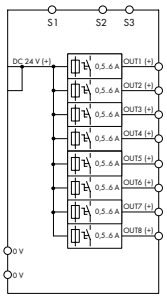


Features:
- WAGO ECB with four channels, parametrizable
- Signal and control contacts with inverted logic (low-side switching signal outputs)
- Time-delayed switching of channels
- One illuminated, three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Message reports status for each channel via pulse sequence
- Group signal reports “channel switched off” and “tripped channel”
- Remote control input for switching on/off any number of channels via pulse sequence
- Remote control input for resetting all tripped channels

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	18 … 30 VDC
Output	
Total number of channels (module)	4
Nominal output voltage $U_{o\,nom}$	4 x 24 VDC
Output voltage range	18 … 30 VDC (U_i – Voltage drop)
Voltage drop	≤ 120 mV (Input (+))
Nominal output current $I_{o\,nom}$	4 x 1 / 2 / 3 / 4 / 5 / 6 A (adjustable for each channel via selector switch)
Trip time	16 ms … 100 s (load-dependent)
Switch-on capacity	> 50000 µF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 50 ms / max. 5 s)
Active current limitation	No
Signaling and Communication	
Signaling	4 x LED (green/red/orange); 1 x remote control input with inverted logic (S1); 2 x active signal output, low-side switching (S2; S3)
Remote input	Reactivation of all tripped channels via 15 … 30 VDC pulse for min. 500 ms; Switching on/off any number of channels via pulse sequence
Efficiency/Power Losses	
Power loss P_l	≤ 0.84 W (no load); ≤ 4.2 W (4 x 6 A)
Efficiency (typ.)	99 %
Fuse Protection	
Internal fuse	T 15 A per channel
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	No derating
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (+) (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Input (–); Output; Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical Data/Mechanical Data/Material Data	
Width x Height x Depth (mm)	45 x 90 x 115.5; Depth from upper-edge of DIN-35 rail
Mounting type	DIN-35 rail
Weight	170 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; EN 61000-6-2; EN 61000-6-3; UL 508; UL 2367; DNV GL

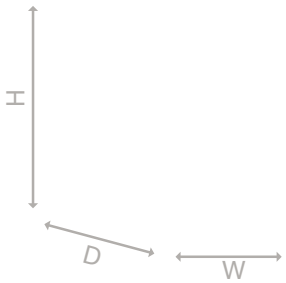
Electronic Circuit Breaker; with Active Current Limitation; 24 VDC / 0.5 … 6 A
787 Series

Similar to picture



Electronic circuit breaker; 8-channel; 24 VDC input voltage; adjustable 0.5 … 6 A; active current limitation; communication capability

	Item No.	Pack. Unit
	787-1668/006-1000	1

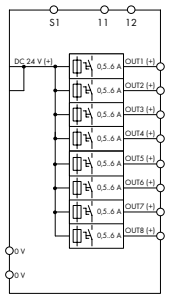


Features:
- Space-saving ECB with eight channels
- Nominal current: 0.5 … 6 A (adjustable for each channel via sealable selector switch)
- Active current limitation
- Switch-on capacity > 65.000 µF per channel
- One illuminated, three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Time-delayed switching of channels
- Tripped message (group signal)
- Status message for each channel via pulse sequence
- Remote input resets all tripped channels
- Remote input for switching on/off any number of channels via pulse sequence

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	18 … 30 VDC
Output	
Total number of channels (module)	8
Nominal output voltage $U_{o\,nom}$	8 x 24 VDC
Output voltage range	18 … 30 VDC (U_i – Voltage drop)
Voltage drop	≤ 155 mV (Input (+))
Nominal output current $I_{o\,nom}$	8 x 0.5 / 1 / 2 / 3 / 4 / 6 A (adjustable for each channel via selector switch)
Trip time	16 ms … 5 s (load-dependent)
Switch-on capacity	> 65.000 µF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 50 ms / max. 5 s)
Active current limitation	Yes
Current limitation	1.7 x $I_{o\,nom}$ typ.
Signaling and Communication	
Signaling	8 x LED (green/red/orange); 1 x Remote control input (S1); 2 x Active signal output (S2; S3)
Remote input	Reactivation of all tripped channels via 15 … 30 VDC pulse for min. 500 ms; Switching on/off any number of channels via pulse sequence
Efficiency/Power Losses	
Power loss P_l	≤ 1.15 W (no load); ≤ 8.6 W (8 x 6 A)
Efficiency (typ.)	99 %
Fuse Protection	
Internal fuse	T 15 A per channel
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	No derating
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (+) (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Input (–); Output; Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	42 x 127 x 142.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	440 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; EN 61000-6-2; EN 61000-6-3; UL 508; UL 2367; DNV GL

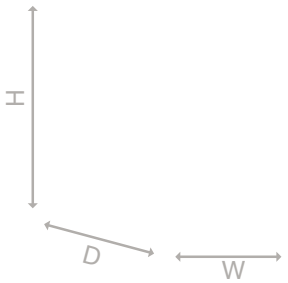
Electronic Circuit Breaker; with Active Current Limitation; 24 VDC / 0.5 … 6 A
787 Series

Similar to picture



Electronic circuit breaker; 8-channel; 24 VDC input voltage; adjustable 0.5 … 6 A; active current limitation; communication capability; Specialty configuration

Item No.	Pack. Unit
787-1668/006-1054	1



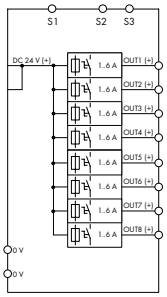
Features:

- Space-saving ECB with eight channels
- Nominal current: 0.5 … 6 A (adjustable for each channel via sealable selector switch)
- Active current limitation
- Switch-on capacity > 65.000 µF per channel
- One illuminated, three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Time-delayed switching of channels
- Tripped message (group signal)
- Remote input resets all tripped channels
- Potential-free signal contact 11/12 reports “channel switched off” and “tripped channel” – does not support communication via pulse sequence

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	18 … 30 VDC
Output	
Total number of channels (module)	8
Nominal output voltage $U_{o\,nom}$	8 x 24 VDC
Output voltage range	18 … 30 VDC (U_i – Voltage drop)
Voltage drop	≤ 155 mV (Input (+))
Nominal output current $I_{o\,nom}$	8 x 0.5 / 1 / 2 / 3 / 4 / 6 A (adjustable for each channel via selector switch)
Trip time	16 ms … 5 s (load-dependent)
Switch-on capacity	> 58.000 µF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 50 ms / max. 5 s)
Active current limitation	Yes
Current limitation	1.3 x $I_{o\,nom}$ typ.
Signaling and Communication	
Signaling	8 x LED (green/red/orange); 1 x Remote control input (S1); 1 x Group signal contact (11; 12)
Remote input	Reactivation of all tripped channels via 15 … 30 VDC pulse for min. 500 ms
Efficiency/Power Losses	
Power loss P_l	≤ 1.15 W (no load); ≤ 8.6 W (8 x 6 A)
Efficiency (typ.)	99 %
Fuse Protection	
Internal fuse	T 15 A per channel
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	No derating
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (+) (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Input (–); Output; Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	42 x 127 x 142.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	440 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; EN 61000-6-2; EN 61000-6-3; UL 508; UL 2367; DNV GL

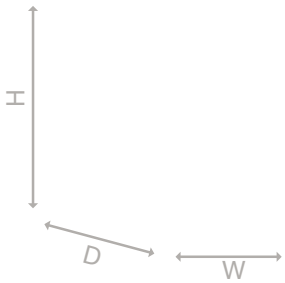
Electronic Circuit Breaker; 24 VDC / 1 … 6 A
787 Series

Similar to picture



Electronic circuit breaker; 8-channel; 24 VDC input voltage; adjustable 1 … 6 A; communication capability

Item No.	Pack. Unit
787-1668/106-000	1

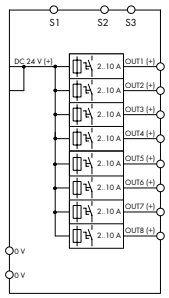


Features:
- Space-saving ECB with eight channels
- Nominal current: 1 … 6 A (adjustable for each channel via sealable selector switch)
- Switch-on capacity > 50.000 µF per channel
- One illuminated, three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Time-delayed switching of channels
- Tripped message (group signal)
- Status message for each channel via pulse sequence
- Remote input resets all tripped channels
- Remote input for switching on/off any number of channels via pulse sequence

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	18 … 30 VDC
Output	
Total number of channels (module)	8
Nominal output voltage $U_{o\,nom}$	8 x 24 VDC
Output voltage range	18 … 30 VDC (U_i – Voltage drop)
Voltage drop	≤ 120 mV (Input (+))
Nominal output current $I_{o\,nom}$	8 x 1 / 2 / 3 / 4 / 5 / 6 A (adjustable for each channel via selector switch)
Trip time	16 ms … 100 s (load-dependent)
Switch-on capacity	> 50.000 µF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 50 ms / max. 5 s)
Active current limitation	No
Signaling and Communication	
Signaling	8 x LED (green/red/orange); 1 x Remote control input (S1); 2 x Active signal output (S2; S3)
Remote input	Reactivation of all tripped channels via 15 … 30 VDC pulse for min. 500 ms; Switching on/off any number of channels via pulse sequence
Efficiency/Power Losses	
Power loss P_l	≤ 1.32 W (no load); ≤ 8 W (8 x 6 A)
Efficiency (typ.)	99 %
Fuse Protection	
Internal fuse	T 15 A per channel
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	No derating
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (+) (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Input (–); Output; Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	42 x 127 x 142.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	490 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; EN 61000-6-2; EN 61000-6-3; UL 508; UL 2367; DNV GL

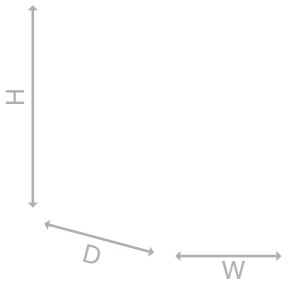
Electronic Circuit Breaker; 24 VDC / 2 … 10 A
787 Series

Similar to picture



Electronic circuit breaker; 8-channel; 24 VDC input voltage; adjustable 2 … 10 A; communication capability

Item No.	Pack. Unit
787-1668	1



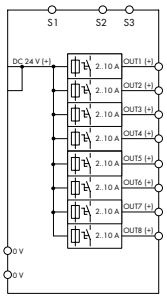
Features:

- Space-saving ECB with eight channels
- Nominal current: 2 … 10 A (adjustable for each channel via sealable selector switch)
- Switch-on capacity > 50.000 µF per channel
- One illuminated, three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Time-delayed switching of channels
- Tripped message (group signal)
- Status message for each channel via pulse sequence
- Remote input resets all tripped channels
- Remote input for switching on/off any number of channels via pulse sequence

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	18 … 30 VDC
Output	
Total number of channels (module)	8
Nominal output voltage $U_{o\,nom}$	8 x 24 VDC
Output voltage range	18 … 30 VDC (U_i – Voltage drop)
Voltage drop	≤ 200 mV (Input (+))
Nominal output current $I_{o\,nom}$	8 x 2 / 3 / 4 / 6 / 8 / 10 A (adjustable for each channel via selector switch)
Trip time	16 ms … 100 s (load-dependent)
Switch-on capacity	> 50.000 µF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 50 ms / max. 5 s)
Active current limitation	No
Signaling and Communication	
Signaling	8 x LED (green/red/orange); 1 x Remote control input (S1); 2 x Active signal output (S2; S3)
Remote input	Reactivation of all tripped channels via 15 … 30 VDC pulse for min. 500 ms; Switching on/off any number of channels via pulse sequence
Efficiency/Power Losses	
Power loss P_l	≤ 1.3 W (no load); ≤ 20 W (8 x 10 A)
Efficiency (typ.)	99 %
Fuse Protection	
Internal fuse	T 15 A per channel
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	≥ +50 °C (see instruction manual)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (+) (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Input (–); Output; Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	42 x 127 x 142.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	440 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; EN 61000-6-2; EN 61000-6-3; UL 508; UL 2367; DNV GL

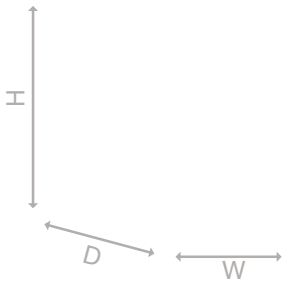
Electronic Circuit Breaker; 24 VDC / 2 … 10 A
787 Series

Similar to picture



Electronic circuit breaker; 8-channel; 24 VDC input voltage; adjustable 2 … 10 A; communication capability; Specialty configuration

	Item No.	Pack. Unit
	787-1668/000-004	1



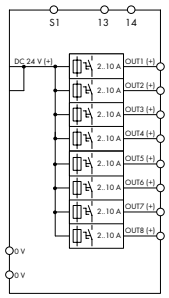
Features:

- Space-saving ECB with eight channels
- Nominal current: 2 … 10 A (adjustable for each channel via sealable selector switch)
- Switch-on capacity > 50.000 µF per channel
- One illuminated, three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Time-delayed switching of channels
- Tripped message (group signal)
- Status message for each channel via pulse sequence
- Remote input resets all tripped channels
- Remote input for switching on/off any number of channels via pulse sequence
- Group signal S3 reports “channel switched off” and “tripped channel”

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	18 … 30 VDC
Output	
Total number of channels (module)	8
Nominal output voltage $U_{o\,nom}$	8 x 24 VDC
Output voltage range	18 … 30 VDC (U_i – Voltage drop)
Voltage drop	≤ 200 mV (Input (+))
Nominal output current $I_{o\,nom}$	8 x 2 / 3 / 4 / 6 / 8 / 10 A (adjustable for each channel via selector switch)
Trip time	16 ms … 100 s (load-dependent)
Switch-on capacity	> 50.000 µF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 50 ms / max. 5 s)
Active current limitation	No
Signaling and Communication	
Signaling	8 x LED (green/red/orange); 1 x Remote control input (S1); 2 x Active signal output (S2; S3)
Remote input	Reactivation of all tripped channels via 15 … 30 VDC pulse for min. 500 ms; Switching on/off any number of channels via pulse sequence
Efficiency/Power Losses	
Power loss P_l	≤ 1.3 W (no load); ≤ 20 W (8 x 10 A)
Efficiency (typ.)	99 %
Fuse Protection	
Internal fuse	T 15 A per channel
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	≥ +50 °C (see instruction manual)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (+) (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Input (–); Output; Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	42 x 127 x 142.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	420 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; EN 61000-6-2; EN 61000-6-3; UL 508; UL 2367; DNV GL

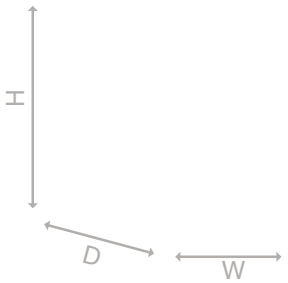
Electronic Circuit Breaker; 24 VDC / 2 … 10 A
787 Series

Similar to picture



Electronic circuit breaker; 8-channel; 24 VDC input voltage; adjustable 2 … 10 A; Signal contact; Specialty configuration

Item No.	Pack. Unit
787-1668/000-054	1

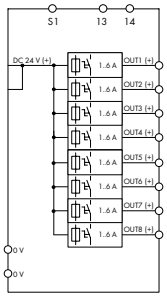


Features:
- Space-saving ECB with eight channels
- Nominal current: 2 … 10 A (adjustable for each channel via sealable selector switch)
- Switch-on capacity > 50.000 µF per channel
- One illuminated, three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Time-delayed switching of channels
- Tripped message (group signal)
- Remote input resets all tripped channels
- Potential-free signal contact 13 / 14 reports "channel switched off" and "tripped channel" – does not support communication via pulse sequence.

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	18 … 30 VDC
Output	
Total number of channels (module)	8
Nominal output voltage $U_{o\,nom}$	8 x 24 VDC
Output voltage range	18 … 30 VDC (U_i – Voltage drop)
Voltage drop	≤ 200 mV (Input (+))
Nominal output current $I_{o\,nom}$	8 x 2 / 3 / 4 / 6 / 8 / 10 A (adjustable for each channel via selector switch; max. 70 A in total)
Trip time	16 ms … 100 s (load-dependent)
Switch-on capacity	> 50.000 µF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 50 ms / max. 5 s)
Active current limitation	No
Signaling and Communication	
Signaling	8 x LED (green/red/orange); 1 x Remote control input (S1); 1 x Group signal contact (13; 14)
Remote input	Reactivation of all tripped channels via 15 … 30 VDC pulse for min. 500 ms
Efficiency/Power Losses	
Power loss P_l	≤ 1.32 W (no load); ≤ 20 W (8 x 10 A)
Efficiency (typ.)	99 %
Fuse Protection	
Internal fuse	T 15 A per channel
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	≥ +50 °C (see instruction manual)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (+) (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Input (–); Output; Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	42 x 127 x 142.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	440 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; EN 61000-6-2; EN 61000-6-3; UL 508; UL 2367; DNV GL

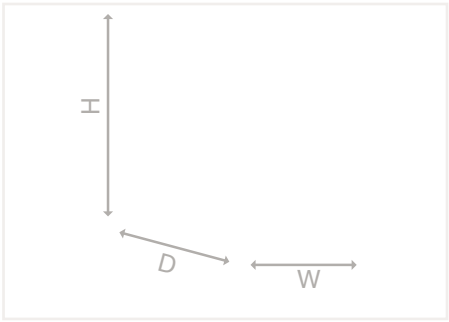
Electronic Circuit Breaker; 24 VDC / 1 … 6 A
787 Series

Similar to picture



Electronic circuit breaker; 8-channel; 24 VDC input voltage; adjustable 1 … 6 A; Signal contact

Item No.	Pack. Unit
787-1668/106-054	1

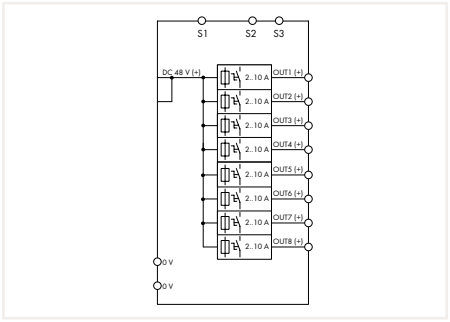


Features:
- Space-saving ECB with eight channels
- Nominal current: 1 … 6 A (adjustable for each channel via sealable selector switch)
- Switch-on capacity > 50.000 µF per channel
- One illuminated, three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Time-delayed switching of channels
- Tripped message (group signal)
- Remote input resets all tripped channels
- Potential-free signal contact 13/14 reports “channel switched off” and “tripped channel” – does not support communication via pulse sequence

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	18 … 30 VDC
Output	
Total number of channels (module)	8
Nominal output voltage $U_{o\,nom}$	8 x 24 VDC
Output voltage range	18 … 30 VDC (U_i – Voltage drop)
Voltage drop	≤ 120 mV (Input (+))
Nominal output current $I_{o\,nom}$	8 x 1 / 2 / 3 / 4 / 5 / 6 A (adjustable for each channel via selector switch)
Trip time	16 ms … 100 s (load-dependent)
Switch-on capacity	> 50.000 µF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 50 ms / max. 5 s)
Active current limitation	No
Signaling and Communication	
Signaling	8 x LED (green/red/orange); 1 x Remote control input (S1); 1 x Group signal contact (13; 14)
Remote input	Reactivation of all tripped channels via 15 … 30 VDC pulse for min. 500 ms
Efficiency/Power Losses	
Power loss P_l	≤ 0.84 W (no load); ≤ 8 W (8 x 6 A)
Efficiency (typ.)	99 %
Fuse Protection	
Internal fuse	T 15 A per channel
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	No derating
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (+) (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Input (–); Output; Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	42 x 127 x 142.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	440 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; EN 61000-6-2; EN 61000-6-3; UL 508*; UL 2367*; DNV GL (*pending)

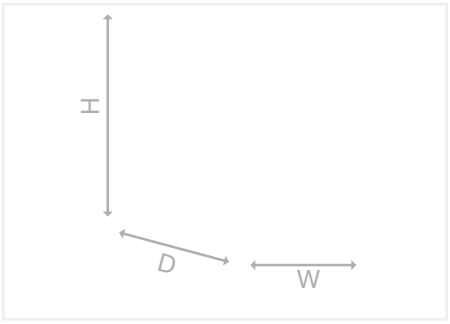
Electronic Circuit Breaker; 48 VDC / 2 … 10 A
787 Series

Similar to picture



Electronic circuit breaker; 8-channel; 48 VDC input voltage; adjustable 2 … 10 A; Signal contact

Item No.	Pack. Unit
787-1668/000-200	1

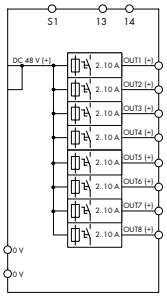


Features:
- Space-saving ECB with eight channels
- Nominal current: 2 … 10 A (adjustable for each channel via sealable selector switch)
- Switch-on capacity > 23.000 µF per channel
- One illuminated, three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Time-delayed switching of channels
- Tripped message (group signal)
- Status message for each channel via pulse sequence
- Remote input for switching on/off any number of channels via pulse sequence

Input	
Nominal input voltage $U_{i\,nom}$	48 VDC
Input voltage range	32 … 58 VDC
Output	
Total number of channels (module)	8
Nominal output voltage $U_{o\,nom}$	8 x 48 VDC
Output voltage range	32 … 58 VDC (U_i – Voltage drop)
Voltage drop	≤ 200 mV (Input (+))
Nominal output current $I_{o\,nom}$	8 x 2 / 3 / 4 / 6 / 8 / 10 A (adjustable for each channel via selector switch; max. 70 A in total)
Trip time	16 ms … 100 s (load-dependent)
Switch-on capacity	> 23.000 µF per channel at 48 VDC, 2.5 mm² cable cross section and 2.5 m cable length
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 50 ms / max. 5 s)
Active current limitation	No
Signaling and Communication	
Signaling	8 x LED (green/red/orange); 1 x Remote control input (S1); 2 x Active signal output (S2; S3)
Remote input	Reactivation of all tripped channels via 15 … 58 VDC pulse for min. 500 ms; Switching on/off any number of channels via pulse sequence
Efficiency/Power Losses	
Power loss P_l	≤ 1.3 W (no load); ≤ 20 W (8 x 10 A)
Efficiency (typ.)	99 %
Fuse Protection	
Internal fuse	T 15 A per channel
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	≥ +50 °C (see instruction manual)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (+) (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Input (–); Output; Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	42 x 127 x 142.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	440 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; EN 61000-6-2; EN 61000-6-3; UL 508; UL 2367; DNV GL

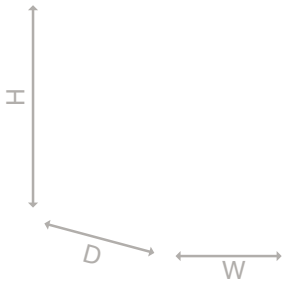
Electronic Circuit Breaker; 48 VDC / 2 … 10 A
787 Series

Similar to picture



Electronic circuit breaker; 8-channel; 48 VDC input voltage; adjustable 2 … 10 A; Signal contact

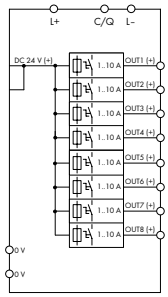
Item No.	Pack. Unit
787-1668/000-250	1



Features:
- Space-saving ECB with eight channels
- Nominal current: 2 … 10 A (adjustable for each channel via sealable selector switch)
- Switch-on capacity > 23.000 µF per channel
- One illuminated, three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Time-delayed switching of channels
- Tripped message (group signal)
- Potential-free signal contact 13 / 14 reports “channel switched off” and “tripped channel” – does not support communication via pulse sequence

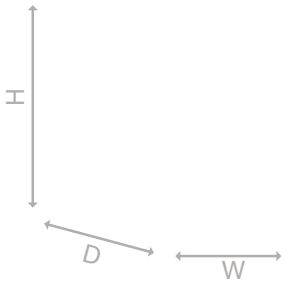
Input	
Nominal input voltage $U_{i\,nom}$	48 VDC
Input voltage range	32 … 58 VDC
Output	
Total number of channels (module)	8
Nominal output voltage $U_{o\,nom}$	8 x 48 VDC
Output voltage range	32 … 58 VDC (U_i – Voltage drop)
Voltage drop	≤ 200 mV (Input (+))
Nominal output current $I_{o\,nom}$	8 x 2 / 3 / 4 / 6 / 8 / 10 A (adjustable for each channel via selector switch; max. 70 A in total)
Trip time	16 ms … 100 s (load-dependent)
Switch-on capacity	> 23.000 µF per channel at 48 VDC, 2.5 mm² cable cross section and 2.5 m cable length
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 50 ms / max. 5 s)
Active current limitation	No
Signaling and Communication	
Signaling	8 x LED (green/red/orange); 1 x Remote control input (S1); 1 x Group signal contact (13; 14)
Remote input	Reactivation of all tripped channels via 15 … 58 VDC pulse for min. 500 ms
Efficiency/Power Losses	
Power loss P_l	≤ 1.3 W (no load); ≤ 20 W (8 x 10 A)
Efficiency (typ.)	99 %
Fuse Protection	
Internal fuse	T 15 A per channel
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	≥ +50 °C (see instruction manual)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (+) (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Input (–); Output; Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	42 x 127 x 142.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	440 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; EN 61000-6-2; EN 61000-6-3; UL 508; UL 2367; DNV GL

Electronic Circuit Breaker; 24 VDC / 1 … 10 A
787 Series



Electronic circuit breaker; 8-channel; 24 VDC input voltage; adjustable 1 … 10 A; IO-Link

Item No.	Pack. Unit
787-1668/000-080	1



Features:
- Space-saving ECB with eight channels
- Nominal current: 1 … 10 A (adjustable for each channel via sealable selector switch or IO-Link interface)
- Switch-on capacity > 50.000 µF per channel
- One illuminated, three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Time-delayed switching of channels
- Status message and current measurement of each individual channel via IO-Link interface
- Switch on/off each channel separately via IO-Link interface

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	18 … 30 VDC
Output	
Total number of channels (module)	8
Nominal output voltage $U_{o\,nom}$	8 x 24 VDC
Output voltage range	18 … 30 VDC (U_i – Voltage drop)
Voltage drop	≤ 200 mV (Input (+))
Nominal output current $I_{o\,nom}$	8 x 1 / 2 / 3 / 4 / 6 / 8 / 10 A (adjustable for each channel via IO-Link interface); 1, 2, 4, 6, 10 A (adjustable for each channel via selector switch)
Trip time	16 ms … 100 s (load-dependent)
Switch-on capacity	> 50.000 µF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 50 ms / max. 5 s)
Active current limitation	No
Signaling and Communication	
Signaling	8 x LED (green/red/orange); 1 x IO-Link interface
Remote input	Switching on/off any number of channels via IO-Link interface
Efficiency/Power Losses	
Power loss P_l	≤ 1.3 W (no load); ≤ 20 W (8 x 10 A)
Efficiency	99 %
Fuse Protection	
Internal fuse	T 15 A per channel
Safety and Protection/Environmental Requirements	
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	≥ +50 °C (see instruction manual)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (+) (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Input (–); Output; Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	42 x 127 x 142.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	440 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; EN 61000-6-2; EN 61000-6-3; UL 508; UL 2367; DNV GL

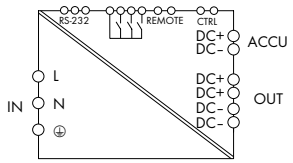
WAGO UPS Chargers and Controllers and WAGO Capacitive Buffer Modules

WAGO UPS Chargers and Controllers and WAGO Capacitive Buffer Modules

5

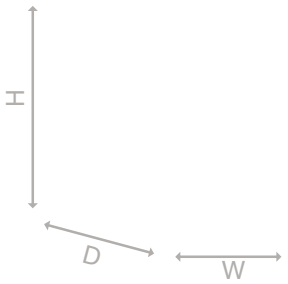
Switched-Mode Power Supply with Integrated UPS Charger and Controller; Classic; 1-phase; 24 VDC / 5 A

787 Series



Switched-mode power supply with integrated charger and controller; Classic; 1-phase; 24 VDC output voltage; 5 A output current; communication capability

	Item No.	Pack. Unit
	787-1675	1

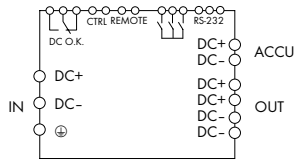


Features:

- Switched-mode power supply with integrated charger and controller for uninterruptible power supply (UPS)
- Battery control technology for smooth charging and predictive maintenance applications
- Potential-free contacts provide function monitoring
- Buffer time can be set on site via rotary switch
- Parameter setting and monitoring via RS-232 interface
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1; PELV per EN 60204

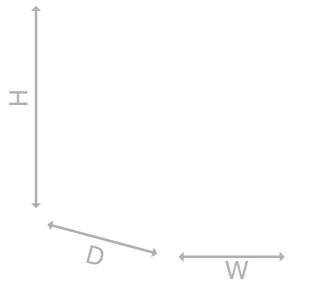
Input	
Nominal input voltage $U_{i\,nom}$	100 … 240 VAC
Input voltage range	85 … 264 VAC; 120 … 372 VDC
Input voltage derating	−1.5 %/V (< 100 VAC); −1 %/V (< 150 VDC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 1.1 A (230 VAC; 5 ADC); ≤ 2.2 A (110 VAC; 5 ADC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Passive
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	23 … 28.5 VDC (mains operation); 18.5 … 27.5 VDC (buffer mode)
Nominal output current $I_{o\,nom}$	5 A
Nominal output power	120 W
Residual ripple	≤ 50 mV (peak-to-peak)
Overload behavior	Constant current
Energy Storage Systems	
Buffer time	1 s … 20 min (or constant; PC mode; configurable via software)
Switch-on threshold (adjustable)	20 … 25.5 VDC (configurable via software; pre-configured: 22 VDC)
Charging current	0.3 … 1 A
End-of-charge voltage	26 … 29.5 VDC (temperature-controlled; optional fixed setting)
Recommended battery module	787-871, 787-872, 787-873, 787-876, 787-1671
Signaling and Communication	
Signaling	1 x Alarm LED (red); 1 x Battery Charge LED (yellow); 1 x DC OK LED (green); 3 x Signal output (24 VDC; max. 200 mA in total); 1 x RS-232 interface
Communication	RS-232 interface
Remote input	Switches buffer mode off
Efficiency/Power Losses	
Power loss P_l	≤ 5.2 W (buffer mode; 24 VDC; 5 A); ≤ 17 W (mains operation; 230 VAC; 24 VDC; 5 A); ≤ 22 W
Power loss (max.) $P_{l\,max.}$	30 W (90 VAC; charging)
Efficiency (typ.)	88 %
Fuse Protection	
Internal fuse	T 4 A / 250 VAC (input side)
Recommended backup fusing	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-GND/sec.-GND/pri.-sec.)	2.2 kVDC / 0.7 kVDC / 4.242 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Reverse voltage protection	Yes
Overvoltage category	II
Parallel operation/series operation	Yes, max. 3 battery modules for buffer time extension/no
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	−25 … +70 °C (device starts at −40 °C, type-tested)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	−3 %/K (> +50 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output/signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Interface (solid/fine-stranded/AWG)	0.08 … 1.5 mm² / 0.08 … 1.5 mm² / 28 … 14 AWG
Line length (max.)	≤ 3 m (output, battery control)
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	60 x 127 x 135.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	885 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; EN 61204-3; EN 61558-2-16; UL 60950; UL 508; GL

UPS Charger and Controller; 24 VDC / 10 A
787 Series



UPS charger and controller; 24 VDC input voltage; 24 VDC output voltage; 10 A output current; LineMonitor; communication capability

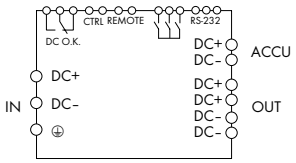
	Item No.	Pack. Unit
	787-870	1



Features:
- Charger and controller for uninterruptible power supply (UPS)
- Current and voltage monitoring, as well as parameter setting via LCD and RS-232 interface
- Active signal outputs for function monitoring
- Remote input for buffered output deactivation
- Input for temperature control of connected battery
- Battery control (from manufacturing no. 215563) detects both battery life and battery type

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	22 … 29 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 0.1 A (no load running); ≤ 0.8 A (charging); ≤ 10.8 A
Inrush current	≤ 4 A (no load)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Output voltage range	U_i – 1 VDC (rated operation); 20 … 25.5 VDC (buffer mode)
Nominal output current $I_{o\,nom}$	10 A
Energy Storage Systems	
Buffer Time	10 … 600 s (or constant; adjustable)
Switch-on threshold (adjustable)	20 … 25.5 VDC
Charging current	≤ 0.6 A
End-of-charge voltage	26 … 29.5 VDC (temperature-controlled; optional fixed setting)
Recommended battery module	787-871, 787-872, 787-873, 787-876, 787-1671
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x Warning LED (yellow); 1 x Error LED (red); LCD; 3 x Signal output (24 VDC; max. 25 mA); 1 x Isolated relay contact (max. 30 VDC; 1 A); 1 x RS-232 interface; Battery control (C+; C-)
Communication	RS-232 interface
Remote input	Switches buffer mode off
Efficiency/Power Losses	
Power loss P_l	≤ 15 W (no load); ≤ 20 W (nominal load)
Efficiency (typ.)	95 %
Fuse Protection	
Internal fuse	T 15 A
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	Yes
Parallel operation/series operation	Yes, a maximum three battery modules for buffer time extension (temperature measurement evaluation is only possible via one battery module)/no
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–10 … +60 °C
Relative humidity	5 … 96 % (no condensation permissible)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
LED indication (solid/fine-stranded/AWG)	0.08 … 0.5 mm² / 0.08 … 0.5 mm² / 28 … 20 AWG
Line length (max.)	≤ 3 m (input, output, battery control)
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	40 x 163 x 163; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	800 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; UL 60950; UL 508; EN 61000-6-2; EN 61000-6-3

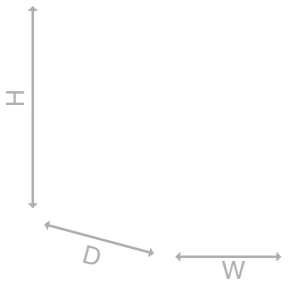
UPS Charger and Controller; 24 VDC / 20 A
787 Series



5

UPS charger and controller; 24 VDC input voltage; 24 VDC output voltage; 20 A output current; LineMonitor; communication capability

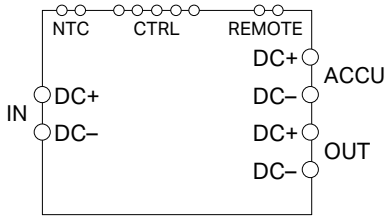
	Item No.	Pack. Unit
	787-875	1



Features:
- Charger and controller for uninterruptible power supply (UPS)
- Current and voltage monitoring, as well as parameter setting via LCD and RS-232 interface
- Active signal outputs for function monitoring
- Remote input for buffered output deactivation
- Input for temperature control of connected battery
- Battery control (from manufacturing no. 215563) detects both battery life and battery type

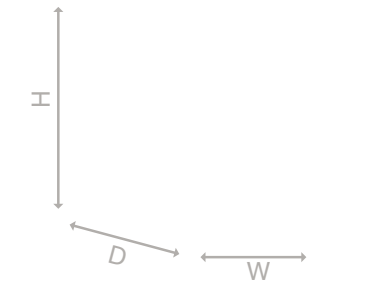
Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	22 … 29 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 0.1 A (no load running); ≤ 1.5 A (charging); ≤ 21.5 A
Inrush current	≤ 4 A (no load)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Output voltage range	U_i – 1 VDC (rated operation); 20 … 25.5 VDC (buffer mode)
Nominal output current $I_{o\,nom}$	20 A
Energy Storage Systems	
Buffer Time	10 s … 10 min (or constant; adjustable)
Switch-on threshold (adjustable)	20 … 25.5 VDC
Charging current	≤ 1 A
End-of-charge voltage	26 … 29.5 VDC (temperature-controlled; optional fixed setting)
Recommended battery module	787-871, 787-872, 787-873
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x Warning LED (yellow); 1 x Error LED (red); LCD; 3 x Signal output (24 VDC; max. 25 mA); 1 x Isolated relay contact (max. 30 VDC; 1 A); 1 x RS-232 interface; Battery control (C+; C-)
Communication	RS-232 interface
Remote input	Switches buffer mode off
Efficiency/Power Losses	
Power loss P_l	≤ 15 W (no load); ≤ 30 W (nominal load)
Efficiency (typ.)	95 %
Fuse Protection	
Internal fuse	T 25 A
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	Yes
Parallel operation/series operation	Yes, a maximum three battery modules for buffer time extension (temperature measurement evaluation is only possible via one battery module)/no
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–10 … +60 °C
Relative humidity	5 … 96 % (no condensation permissible)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
LED indication (solid/fine-stranded/AWG)	0.08 … 0.5 mm² / 0.08 … 0.5 mm² / 28 … 20 AWG
Line length (max.)	≤ 3 m (input, output, battery control)
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	57 x 171 x 163; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	1200 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; UL 60950; UL 508; EN 61000-6-2; EN 61000-6-3

DC UPS Module; 24 VDC / 40 A
787 Series



DC UPS Module; Input voltage: 24 VDC; Output voltage: 24 VDC; Output current: 40 A

Item No.	Pack. Unit
787-915	1



Features:
- DC UPS module for uninterruptible power supply (UPS)
- Potential-free contacts provide function monitoring
- Remote input for buffered output deactivation
- Input for temperature control of connected battery
- Battery internal resistance measurement for diagnosing batteries, including connection cable and fuse

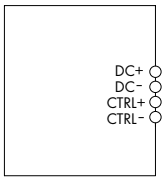
Note:
For North America: Use only batteries with appropriate safety approvals!

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	22 … 28 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 0.16 A (no load running); ≤ 4 A (charging); ≤ 44 A
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Output voltage range	U_i (rated operation); 19.5 … 26.5 VDC (battery voltage in buffer mode)
Nominal output current $I_{o\,nom}$	40 A
Energy Storage Systems	
Buffer time	Load-dependent
Switch-on threshold (adjustable)	21.5 … 22.5 VDC
Charging current	1 … 4 A (adjustable in 1 A steps via DIP switch; Default setting: 2 A)
End-of-charge voltage	26.4 … 29 VDC (temperature controlled with NTC; without temperature sensor: 27.2 V)
Recommended battery module	Type: VRLA 24 V; 7 … 40 Ah
Signaling and Communication	
Signaling	1 x Power LED (green); 1 x UPS LED (yellow); 1 x Warning LED (red); 2 x isolated relay contact (max. 30 VDC, 1 A)
Remote input	Switches buffer mode off
Efficiency/Power Losses	
Power loss P_l	≤ 4 W (no load); ≤ 22.5 W (nominal load)
Efficiency (typ.)	97 % (rated operation); 85 % (charging)
Fuse Protection	
Internal fuse	T 6.3 A (charging circuit)
Recommended backup fusing	T 50 A
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	Yes
Parallel operation/series operation	No/no
MTBF	600.000 h (+40 °C; per SN 29500)
Surrounding air temperature (operation)	0 … +50 °C
Relative humidity	5 … 95 % (no condensation permissible)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.75 … 16 mm² / 0.75 … 25 mm² / 18 … 4 AWG
Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	68 x 181 x 162; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	1100 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 62368-1; EN 61000-6-2; EN 61000-6-3; CSA* (*pending)

5

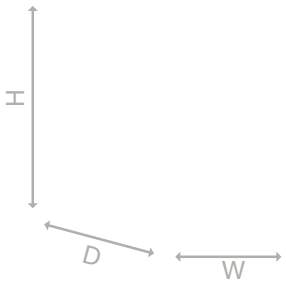
Lead-Acid AGM Battery Module; 24 VDC / 5 A; Capacity 0.8 Ah

787 Series



Lead-acid AGM battery module; 24 VDC input voltage; 5 A output current; Capacity: 0.8 Ah; with battery control

Item No.	Pack. Unit
787-1671	1



Features:

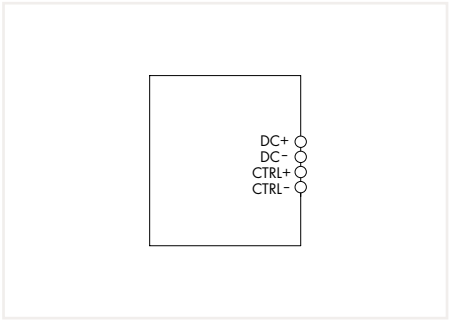
- Lead-acid, absorbed glass mat (AGM) battery module for uninterruptible power supply (UPS)
- Can be connected to both 787-870/875 UPS Charger/ Controller and 787-1675 Power Supply with integrated UPS charger and controller
- Parallel operation provides higher buffer time
- Built-in temperature sensor
- DIN-35-rail mounting
- Battery control (from manufacturing no. 216570) detects both battery life and battery type

Note:
For parallel connection, please switch battery capacity setting to “OFF” in the UPS charger and controller.

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Nominal output current $I_{o\,nom}$	5 A
Energy Storage Systems	
Battery capacity	0.8 Ah
Charging current	0.2 A (recommended)
End-of-charge voltage	27 VDC (+25 °C)
Signaling and Communication	
Signaling	Battery control (C+; C-)
Fuse Protection	
Internal fuse	T 10 A / 250 VAC
Safety and Protection/Environmental Requirements	
Protection class/protection type	III / IP20 (per EN 60529)
Series operation	No
MTBF	> 500.000 h (per IEC 61709)
Service life (typ.)	5 / 4 / 2 a (20 / 30 / 40 °C)
Surrounding air temperature (operation)	–15 … +40 °C (–20 … +40 °C during discharge)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output/battery control (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Line length (max.)	3 m
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	72 x 97 x 124; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	1000 g
Standards and Specifications	
Approvals/standards/specifications	CE; UL 508*; (*pending)

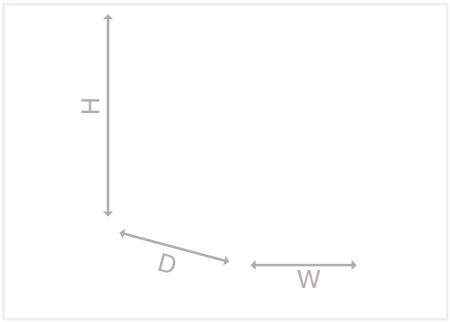
Lead-Acid AGM Battery Module; 24 VDC / 7.5 A; Capacity 1.2 Ah
787 Series

Similar to pictured device



Lead-acid AGM battery module; 24 VDC input voltage; 20 A output current; 3.2 Ah capacity; with battery control

Item No.	Pack. Unit
787-876	1



Features:
- Lead-acid, absorbed glass mat (AGM) battery module for uninterruptible power supply (UPS)
- Can be connected to both 787-870/875 UPS Charger/ Controller and 787-1675 Power Supply with integrated UPS charger and controller
- Parallel operation provides higher buffer time
- Built-in temperature sensor
- DIN-35-rail mountable
- Battery control (from manufacturing no. 216570) detects both battery life and battery type

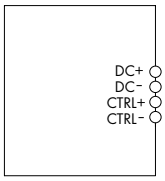
Note:
For parallel connection, please switch battery capacity setting to “OFF” in the UPS charger and controller.

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Nominal output current $I_{o\,nom}$	7.5 A
Energy Storage Systems	
Battery capacity	1.2 Ah
Charging current	≤ 0.3 A
End-of-charge voltage	27 VDC (+25 °C)
Signaling and Communication	
Signaling	Battery control (C+; C-)
Fuse Protection	
Internal fuse	T 15 A
Safety and Protection/Environmental Requirements	
Protection class/protection type	III / IP20 (per EN 60529)
Series operation	No
MTBF	> 500.000 h (per IEC 61709)
Service life (typ.)	5 / 4 / 2 a (20 / 30 / 40 °C)
Surrounding air temperature (operation)	−10 … +40 °C
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output/battery control (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Line length (max.)	3 m (input, output, battery control)
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	55 x 153 x 126.6; height including connector; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	2140 g
Standards and Specifications	
Approvals/standards/specifications	CE; VdS-tested battery; UL 508

Lead-Acid AGM Battery Module; 24 VDC / 20 A; Capacity 3.2 Ah

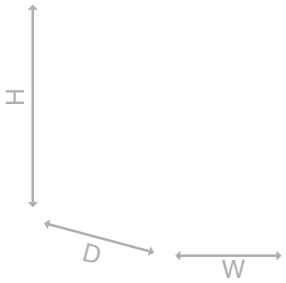
787 Series

Similar to pictured device



Lead-Acid (AGM) Battery Module; Input voltage: 24 VDC; Output current: 20 A; Capacity: 3.2 Ah; with battery control

	Item No.	Pack. Unit
	787-871	1



Features:

- Lead-acid, absorbed glass mat (AGM) battery module for uninterruptible power supply (UPS)
- Can be connected to both 787-870/875 UPS Charger/ Controller and 787-1675 Power Supply with integrated UPS charger and controller
- Parallel operation provides higher buffer time
- Built-in temperature sensor
- Mounting plate installation via continuous DIN-rail
- Battery control (from manufacturing no. 216570) detects both battery life and battery type

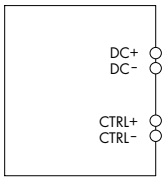
Note:
For parallel connection, please switch battery capacity setting to "OFF" in the UPS charger and controller.

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Nominal output current $I_{o\,nom}$	20 A
Energy Storage Systems	
Battery capacity	3.2 Ah
Charging current	≤ 0.8 A
End-of-charge voltage	27 VDC (+25 °C)
Signaling and Communication	
Signaling	Battery control (C+; C-)
Fuse Protection	
Internal fuse	T 25 A
Safety and Protection/Environmental Requirements	
Protection class/protection type	III / IP20 (per EN 60529)
Series operation	No
MTBF	> 500.000 h (per IEC 61709)
Service life (typ.)	5 / 4 / 2 a (20 / 30 / 40 °C)
Surrounding air temperature (operation)	–10 … +40 °C
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output/battery control (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Line length (max.)	3 m (input, output, battery control)
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	76.2 x 168 x 175.5
Mounting type	Screw mount
Weight	3079 g
Standards and Specifications	
Approvals/standards/specifications	CE; VdS-tested battery; UL 508

Lead-Acid AGM Battery Module; 24 VDC / 40 A; Capacity 7 Ah

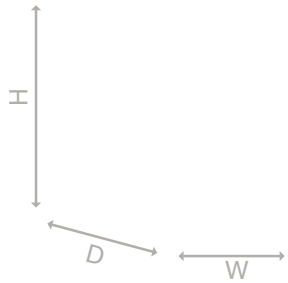
787 Series

Similar to pictured device



Lead-acid AGM battery module; 24 VDC input voltage; 40 A output current; 7 Ah capacity; with battery control

Item No.	Pack. Unit
787-872	1



Features:

- Lead-acid, absorbed glass mat (AGM) battery module for uninterruptible power supply (UPS)
- Can be connected to both 787-870/875 UPS Charger/ Controller and 787-1675 Power Supply with integrated UPS charger and controller
- Parallel operation provides higher buffer time
- Built-in temperature sensor
- Mounting plate installation via continuous DIN-rail
- Battery control (from manufacturing no. 216570) detects both battery life and battery type

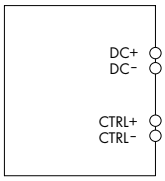
Note:

For parallel connection, please switch battery capacity setting to "OFF" in the UPS charger and controller.

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Nominal output current $I_{o\,nom}$	40 A
Energy Storage Systems	
Battery capacity	7 Ah
Charging current	≤ 1.8 A
End-of-charge voltage	27 VDC (+25 °C)
Signaling and Communication	
Signaling	Battery control (C+; C-)
Fuse Protection	
Internal fuse	2 x T 25 A
Safety and Protection/Environmental Requirements	
Protection class/protection type	III / IP20 (per EN 60529)
Series operation	No
MTBF	> 500.000 h (per IEC 61709)
Service life (typ.)	5 / 4 / 2 a (20 / 30 / 40 °C)
Surrounding air temperature (operation)	−10 … +40 °C
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Battery control (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Line length (max.)	3 m (input, output, battery control)
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	86 x 239 x 217.5
Mounting type	Screw mount
Weight	6500 g
Standards and Specifications	
Approvals/standards/specifications	CE; VdS-tested battery; UL 508

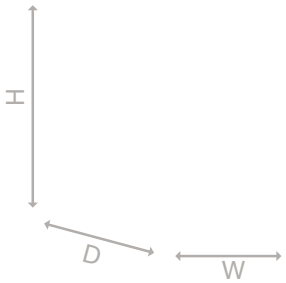
Lead-Acid AGM Battery Module; 24 VDC / 40 A; Capacity 12 Ah
787 Series

Similar to pictured device



Pure Lead Battery Module; 24 VDC input voltage; 40 A output current; Capacity: 13 Ah; with battery control

Item No.	Pack. Unit
787-873	1

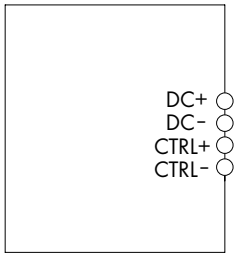


Features:
- Lead-acid, absorbed glass mat (AGM) battery module for uninterruptible power supply (UPS)
- Can be connected to both 787-870/875 UPS Charger/ Controller and 787-1675 Power Supply with integrated UPS charger and controller
- Parallel operation provides higher buffer time
- Built-in temperature sensor
- Mounting plate installation via continuous DIN-rail
- Battery control (from manufacturing no. 216570) detects both battery life and battery type

Note:
For parallel connection, please switch battery capacity setting to "OFF" in the UPS charger and controller.

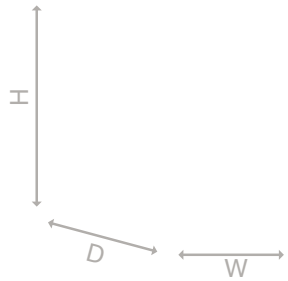
Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Nominal output current $I_{o\,nom}$	40 A
Energy Storage Systems	
Battery capacity	12 Ah
Charging current	≤ 3 A
End-of-charge voltage	27 VDC (+25 °C)
Signaling and Communication	
Signaling	Battery control (C+; C-)
Fuse Protection	
Internal fuse	2 x T 25 A
Safety and Protection/Environmental Requirements	
Protection class/protection type	III / IP20 (per EN 60529)
Series operation	No
MTBF	> 500.000 h (per IEC 61709)
Service life (typ.)	5 / 4 / 2 a (20 / 30 / 40 °C)
Surrounding air temperature (operation)	−10 … +40 °C
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Battery control (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Line length (max.)	3 m (input, output, battery control)
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	120.5 x 239 x 217.5
Mounting type	Screw mount
Weight	10.650 g
Standards and Specifications	
Approvals/standards/specifications	CE; VdS-tested battery; UL 508

Pure Lead Battery Module; 24 VDC / 20 A
787 Series



Pure Lead Battery Module; 24 VDC input voltage; 20 A output current; Capacity: 2.5 Ah; with battery control

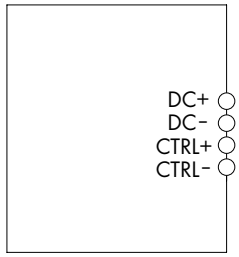
Item No.	Pack. Unit
787-878/000-2500	1



Features:
- Pure lead battery module:
  12 x CYCLON battery (D cell) per module
- Various mounting options
- Intelligent battery management (battery control)
- Optional coated PCB
- Pluggable connection technology
  (WAGO *MULTI CONNECTION SYSTEM*)

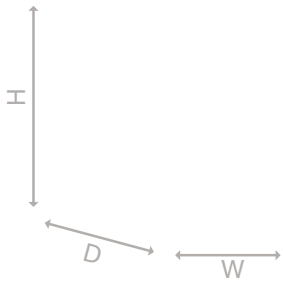
Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Nominal output current $I_{o\,nom}$	20 A
Energy Storage System	
Battery capacity	2.5 Ah
Charging current	≤ 5 A
End-of-charge voltage	27 VDC (25 °C)
Signaling and Communication	
Signaling	Battery control (C+; C-)
Fuse Protection	
Internal fuse	T 25 A
Safety and Protection/Environmental Requirements	
Protection class/type	III / IP20 (per EN 60529)
Parallel operation	Yes
Service life (typ.)	15 / 8 / 4 a (20 / 30 / 40 °C)
Surrounding air temperature (operation)	−40 … +60 °C
Pollution degree	2
Self-discharge	3 % per month at 20 °C
Commissioning	< 6 months at 30 … 40 °C
Connection Data	
Connection technology	CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Battery control (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Line length (max.)	3 m
Physical Data/Mechanical Data/Material Data	
Width x Height x Depth (mm)	86 x 186 x 160
Mounting type	Direct screw connection; optional DIN-rail-mount (EN 60715)
Weight	3800 g
Standards and Specifications	
Approvals/standards/specifications	CE

Pure Lead Battery Module; 24 VDC / 40 A
787 Series



Pure Lead Battery Module;
Input voltage: 24 VDC;
Output current: 40 A;
Capacity: 13 Ah; with battery control

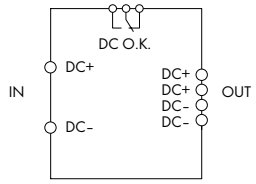
	Item No.	Pack. Unit
	787-878/001-3000	1



Features:
- Pure lead battery module:
  2 x Genesis EPX battery per module
- Intelligent battery management (battery control)
- Optional coated PCB
- Pluggable connection technology
  (WAGO *MULTI CONNECTION SYSTEM*)

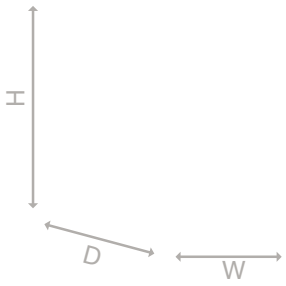
Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Nominal output current $I_{o\,nom}$	40 A
Energy Storage System	
Battery capacity	13 Ah
Charging current	≤ 5 A
End-of-charge voltage	27 VDC (25 °C)
Signaling and Communication	
Signaling	Battery control (C+; C-)
Fuse Protection	
Internal fuse	2 x T 25 A
Safety and Protection/Environmental Requirements	
Protection class/type	III / IP20 (per EN 60529)
Parallel operation	Yes
Service life (typ.)	15 / 8 / 4 a (20 / 30 / 40 °C)
Surrounding air temperature (operation)	–40 … +60 °C
Pollution degree	2
Self-discharge	3 % per month at 20 °C
Commissioning	< 6 months at 30 … 40 °C
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Battery control (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Line length (max.)	≤ 3 m
Physical Data/Mechanical Data/Material Data	
Width x Height x Depth (mm)	217 x 186 x 199.5
Mounting type	Direct screw connection
Weight	12300 g
Standards and Specifications	
Approvals/standards/specifications	CE

Capacitive Buffer Module; 24 VDC / 10 A
787 Series



capacitive buffer module; 24 VDC input voltage; 24 VDC output voltage; 10 A output current; 0.06 … 7.2 s buffer time; communication capability

	Item No.	Pack. Unit
	787-880	1

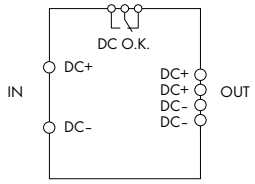


Features:
- Capacitive buffer module bridges short duration voltage drops or load fluctuations
- For uninterruptible power supply
- Internal diode between input and output enables operation with decoupled output.
- Buffer modules can be readily parallel-connected to increase buffer time or load current.
- Potential-free contact for charge condition monitoring

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	20 … 30 VDC
Input current I_i	≤ 0.06 A (no load running); ≤ 1 A (charging); ≤ 11 A
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Output voltage range	U_i – 0.5 VDC (rated operation); 20.4 … 24 VDC (buffer mode)
Nominal output current $I_{o\,nom}$	10 A
Switch-on threshold (adjustable)	20 … 24 VDC
Energy Storage Systems	
Buffer time	0.06 … 7.2 s (depends on load current and switch-on threshold)
Switch-on threshold (adjustable)	20 … 24 VDC
Charging time (typ.)	5 min
Signaling and Communication	
Signaling	1 x LED DC OK (green); 1 x LED Charge (yellow); 1 x LED DC not OK (red); 1 x isolated relay contact (max. 30 VDC, 1 A)
Efficiency/Power Losses	
Power loss P_l	≤ 1.5 W (no load); ≤ 6.5 W (nominal load)
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	Yes
Parallel operation/series operation	Yes/no
MTBF	typ. 87.600 h (at +25 °C); typ. 30.500 h (at +40 °C)
Surrounding air temperature (operation)	–10 … +50 °C
Relative humidity	5 … 96 % (no condensation permissible)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output/relay (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	57 x 163 x 179; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	1000 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; UL 508; EN 61000-6-2; EN 61000-6-3

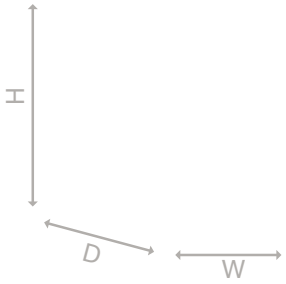
Capacitive Buffer Module; 24 VDC / 20 A
787 Series

Similar to picture



capacitive buffer module; 24 VDC input voltage; 24 VDC output voltage; 20 A output current; 0.17 … 16.5 s buffer time; communication capability

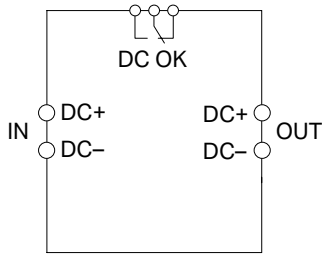
	Item No.	Pack. Unit
	787-881	1



Features:
- Capacitive buffer module bridges short duration voltage drops or load fluctuations
- For uninterruptible power supply
- Internal diode between input and output enables operation with decoupled output.
- Buffer modules can be readily parallel-connected to increase buffer time or load current.
- Potential-free contact for charge condition monitoring

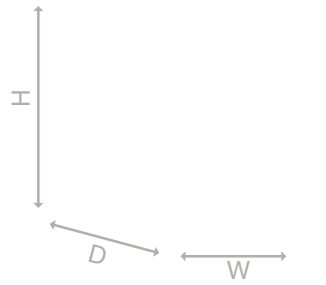
Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	20 … 30 VDC
Input current I_i	≤ 0.06 A (no load running); ≤ 1 A (charging); ≤ 22 A
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Output voltage range	U_i – 1 VDC (rated operation); 20.4 … 24 VDC (buffer mode)
Nominal output current $I_{o\,nom}$	20 A
Switch-on threshold (adjustable)	20 … 24 VDC
Energy Storage Systems	
Buffer time	0.17 … 16.5 s (depends on load current and switch-on threshold)
Switch-on threshold (adjustable)	20 … 24 VDC
Charging time (typ.)	5 min
Signaling and Communication	
Signaling	1 x LED DC OK (green); 1 x LED Charge (yellow); 1 x LED DC not OK (red); 1 x isolated relay contact (max. 30 VDC, 1 A)
Efficiency/Power Losses	
Power loss P_l	≤ 1.5 W (no load); ≤ 15 W (nominal load)
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	Yes
Parallel operation/series operation	Yes/no
MTBF	typ. 87.600 h (at +25 °C); typ. 30.500 h (at +40 °C)
Surrounding air temperature (operation)	–10 … +50 °C
Relative humidity	5 … 96 % (no condensation permissible)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Relay (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	57 x 181 x 179; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	1000 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; UL 508; EN 61000-6-2; EN 61000-6-3

Capacitive Buffer Module; 24 VDC / 40 A
787 Series



capacitive buffer module; 24 VDC input voltage; 24 VDC output voltage; 40 A output current; Buffer time: 0.3 … 6.6 s

	Item No.	Pack. Unit
	787-916	1



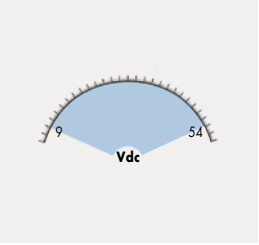
Features:
- Capacitive buffer module bridges short duration voltage drops or load fluctuations
- Internal diode between input and output enables operation with decoupled output
- Potential-free contact for charge condition monitoring

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	23 … 30 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 0.06 A (no load running); ≤ 0.8 A (charging); ≤ 40.8 A
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Output voltage range	U_i – 0.5 VDC (mains operation; Io = 20 A); U_i – 0.8 VDC (mains operation; I_o = 40 A); 20 … 29 VDC (buffer mode)
Nominal output current $I_{o\,nom}$	40 A
Energy Storage Systems	
Buffer time	0.3 … 6.6 s (depends on load current and temperature)
Switch-on threshold (typ.)	22 VDC
Nominal capacity	4.17 F
Nominal voltage	32.4 VDC
Effective energy content (typ.)	500 Ws
Charging time (typ.)	2.5 min
Signaling and Communication	
Signaling	1 x DC OK LED (green); 1 x UPS LED (yellow); 1 x Warning LED (red); 1 x isolated relay contact (max. 30 VDC, 1 A)
Efficiency/Power Losses	
Power loss P_l	≤ 1.9 W (operation without decoupled output); ≤ 11.5 W (operation with decoupled output; Iº = 20 A); ≤ 33.5 W (operation with decoupled output; I_o = 40 A)
Efficiency (typ.)	96.5 %
Fuse Protection	
Internal fuse	No
Recommended backup fusing	T 40 A
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	Yes
Parallel operation/series operation	No/no
Life service	74.000 h (+25 °C; I_o = 40 A); 28.200 h (+40 °C; I_o = 40 A)
Surrounding air temperature (operation)	–10 … +50 °C
Relative humidity	5 … 95 % (no condensation permissible)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.75 … 16 mm² / 0.75 … 25 mm² / 18 … 4 AWG
Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	68 x 181 x 162; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	900 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 62368-1; EN 61000-6-2; EN 61000-6-3; CSA* (*pending)

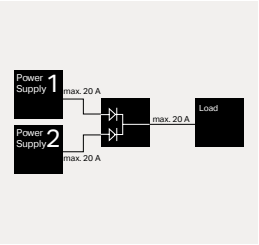
5

WAGO Redundancy Modules

WAGO Redundancy Modules



Highly Versatile
- The diode redundancy modules (787-783 and -785) can be used for the 12 V, 15 V, 24 V, or 48 V power supplies thanks to their wide voltage range



High Overload Capability
- Power diodes in each input path feature a high overload capacity and are also suitable for power supplies with TopBoost or PowerBoost
- Output currents up to 76 A thanks to parallel connection of the input paths

Signaling
- Three LEDs indicate the presence of an input or output voltage
- An isolated signal contact optionally indicates a power supply failure on the input*

*only for 787-885 and -886

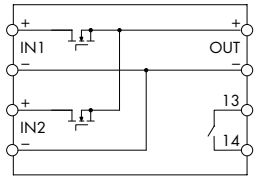
Low Power Dissipation
- Low power dissipation via active-switching MOSFETs*
- Includes MOSFET function monitoring*

*only for 787-1685

6

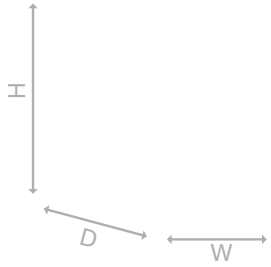
Redundancy Module; 24 VDC / 40 A
787 Series

Similar to picture



Redundancy Module; 2 x 24 VDC input voltage; 2 x 20 A input current; 24 VDC output voltage; 40 A output current

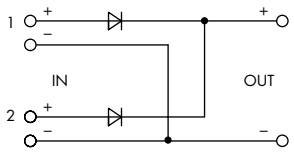
	Item No.	Pack. Unit
	787-1685	1



Features:
- Redundancy module with low-loss Mosfet® decouples two power supplies
- For redundant and fail-safe power supply, incl. Mosfet® monitoring
- Continuous output current: 40 ADC, in any ratio of both inputs (e.g., 20 A / 20 A or 0 A / 40 A)
- Suitable for power supplies with PowerBoost and TopBoost
- Same profile as CLASSIC Power Supplies
- Connects to power supplies with electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1; PELV per EN 60204

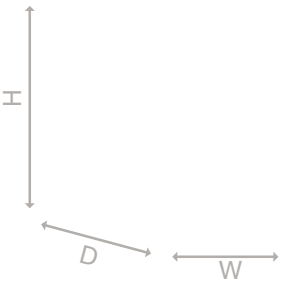
Input	
Nominal input voltage $U_{i\,nom}$	2 x 24 VDC
Input voltage range	2 x 10 … 36 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 40 A (from one input path); ≤ 20 A (via both input paths)
PowerBoost input	60 ADC (4 s); 50 ADC (8 s)
TopBoost input	100 ADC (50 ms)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Output voltage range	10 … 36 VDC (U_i – Voltage drop)
Voltage drop	≤ 100 mV (input/output)
Nominal output current $I_{o\,nom}$	40 A
Nominal output power	960 W
Switching frequency	5 kHz
TopBoost	200 ADC (50 ms)
PowerBoost	120 ADC (4 s); 100 ADC (8 s)
Signaling and Communication	
Signaling	1 x IN1 LED (green); 1 x IN2 LED (green); 1 x DC OK signal contact (IN1 and IN2 > 10 VDC)
Efficiency/Power Losses	
Power loss P_l	≤ 1.5 W (no load); ≤ 9.5 W (nominal load)
Efficiency (typ.)	≥ 99.5 %
Fuse Protection	
Internal fuse	No
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	Yes
Parallel operation/series operation	Yes/no
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–40 … +70 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	–1.5 %/K (> +65 °C)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
LED indication (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	42 x 127 x 139.5; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	450 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61204-3; EN 60950-1; UL 60950; UL 508; DNV GL

Redundancy Module; 24 VDC / 25 A
787 Series



Redundancy Module; Input voltage: 2 x 9 … 54 VDC; Input current: 2 x 12.5 A; Output voltage: 9 … 54 VDC; Output current: 25 A

Item No.	Pack. Unit
787-783	1

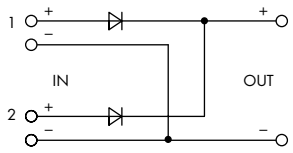


Features:
- Redundancy module with two inputs for decoupling two power supplies
- For redundant and fail-safe power supply
- With LED for input voltage monitoring on site

Input	
Nominal input voltage $U_{i\,nom}$	2 x 24 VDC
Input voltage range	2 x 9 … 54 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 12.5 A (per path)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Output voltage range	9 … 54 VDC (U_i – Voltage drop)
Voltage drop	≤ 0.8 V (input/output)
Nominal output current $I_{o\,nom}$	25 A
Output power (max.)	≤ 1350 W
Nominal output power	600 W
Signaling and Communication	
Signaling	1 x IN1 LED (green); 1 x IN2 LED (green); 1 x OUT LED (green)
Efficiency/Power Losses	
Power loss P_l	≤ 19 W (nominal load)
Efficiency (typ.)	96 %
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Short-circuit-protected	No
Parallel operation/series operation	Yes/no
MTBF	> 10 million h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	≤ 95 % (no condensation permissible)
Derating	–2.66 %/K (+55 °C < Tamb ≤ +70 °C)
Pollution degree	2
Connection Data	
Connection technology	Push-in CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.5 … 6 mm² / 0.5 … 6 mm² / 20 … 10 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	50 x 130 x 92; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	470 g
Standards and Specifications	
Approvals/standards/specifications	CE; UL 508

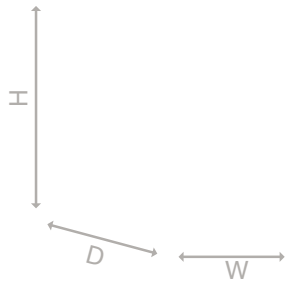
Redundancy Module; 24 VDC / 25 A; Ex Approval
787 Series

Similar to illustration



Redundancy Module;
Input voltage: 2 x 9 … 54 VDC;
Input current: 2 x 12.5 A;
Output voltage: 9 … 54 VDC;
Output current: 25 A

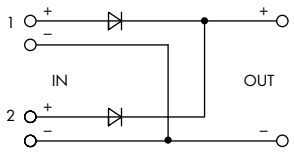
	Item No.	Pack. Unit
	787-783/000-040	1



Features:
- Redundancy module with two inputs for decoupling two power supplies
- For redundant and fail-safe power supply
- With LED for input voltage monitoring on site

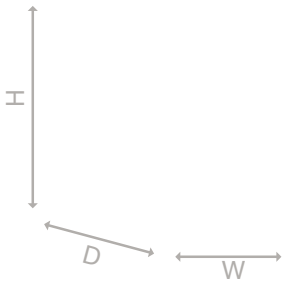
Input	
Nominal input voltage $U_{i\,nom}$	2 x 24 VDC
Input voltage range	2 x 9 … 54 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 12.5 A (per path)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Output voltage range	9 … 54 VDC (U_i – Voltage drop)
Voltage drop	≤ 0.8 V (input/output)
Nominal output current $I_{o\,nom}$	25 A
Output power (max.)	1350 W
Nominal output power	600 W
Signaling and Communication	
Signaling	1 x IN1 LED (green); 1 x IN2 LED (green); 1 x OUT LED (green)
Efficiency/Power Losses	
Power loss P_l	≤ 19 W (nominal load)
Efficiency (typ.)	96 %
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/type	III / IP20 (per EN 60529)
Short-circuit-protected	No
Parallel/series operation	Yes/No
MTBF	> 10 million h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	≤ 95 % (no condensation permissible)
Derating	–2.66 %/K (55 °C < T_u ≤ 70 °C)
Pollution degree	2
Connection Data	
Connection technology	Push-in CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.5 … 6 mm² / 0.5 … 6 mm² / 20 … 10 AWG
Physical Data/Mechanical Data/Material Data	
Width x Height x Depth (mm)	50 x 130 x 92; Depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	470 g
Standards and Specifications	
Approvals/standards/specifications	CE; UL 508; ATEX; IEC Ex; ANSI/ISA 12.12.01 (Class I Div. 2)

Redundancy Module; 24 VDC / 76 A
787 Series



Redundancy Module; Input voltage: 2 x 9 … 54 VDC; Input current: 2 x 40 A; Output voltage: 9 … 54 VDC; Output current: 76 A

Item No.	Pack. Unit
787-785	1

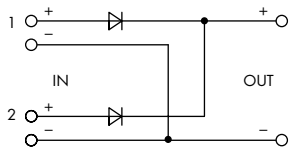


Features:
- Redundancy module with two inputs for decoupling two power supplies
- For redundant and fail-safe power supply
- With LED for input voltage monitoring on site

Input	
Nominal input voltage $U_{i\,nom}$	2 x 24 VDC
Input voltage range	2 x 9 … 54 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 40 A (per path); ≤ 76 A (in total)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Output voltage range	9 … 54 VDC (U_i – Voltage drop)
Voltage drop	≤ 0.5 V (input/output)
Nominal output current $I_{o\,nom}$	76 A (UL: max. 65 A)
Output power (max.)	4104 W
Nominal output power	1824 W
Signaling and Communication	
Signaling	1 x IN1 LED (green); 1 x IN2 LED (green); 1 x OUT LED (green)
Efficiency/Power Losses	
Power loss P_l	≤ 38 W (nominal load)
Efficiency (typ.)	97 %
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Short-circuit-protected	No
Parallel operation/series operation	Yes/no
MTBF	> 10 million h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	≤ 95 % (no condensation permissible)
Derating	–2.66 %/K (+55 °C < Tamb ≤ +70 °C)
Pollution degree	2
Connection Data	
Connection technology	Push-in CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	1.5 … 16 mm² / 1.5 … 16 mm² / 16 … 6 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	83 x 130 x 153; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	960 g
Standards and Specifications	
Approvals/standards/specifications	CE; UL 508

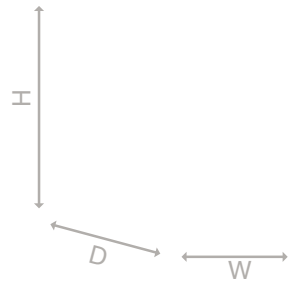
Redundancy Module; 24 VDC / 76 A; Ex Approval
787 Series

Similar to illustration



Redundancy Module;
Input voltage: 2 x 9 … 54 VDC;
Input current: 2 x 40 A;
Output voltage: 9 … 54 VDC;
Output current: 76 A

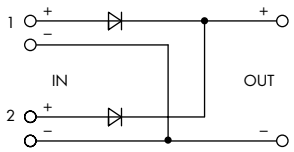
	Item No.	Pack. Unit
	787-785/000-040	1



Features:
- Redundancy module with two inputs for decoupling two power supplies
- For redundant and fail-safe power supply
- With LED for input voltage monitoring on site

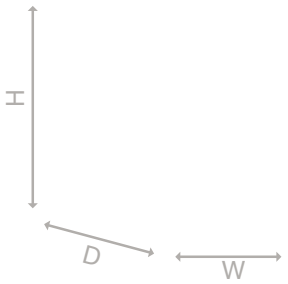
Input	
Nominal input voltage $U_{i\,nom}$	2 x 24 VDC
Input voltage range	2 x 9 … 54 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 40 A (per path); ≤ 76 A (in total)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Output voltage range	9 … 54 VDC (U_i – Voltage drop)
Voltage drop	≤ 0.5 V (input/output)
Nominal output current $I_{o\,nom}$	76 A (UL: max. 65 A)
Output power (max.)	4104 W
Nominal output power	1824 W
Signaling and Communication	
Signaling	1 x IN1 LED (green); 1 x IN2 LED (green); 1 x OUT LED (green)
Efficiency/Power Losses	
Power loss P_l	≤ 38 W (nominal load)
Efficiency (typ.)	97 %
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/type	III / IP20 (per EN 60529)
Short-circuit-protected	No
Parallel/series operation	Yes/No
MTBF	> 10 million h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	≤ 95 % (no condensation permissible)
Derating	–2.66 %/K (55 °C < T_u ≤ 70 °C)
Pollution degree	2
Connection Data	
Connection technology	Push-in CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	1.5 … 16 mm² / 1.5 … 16 mm² / 16 … 6 AWG
Physical Data/Mechanical Data/Material Data	
Width x Height x Depth (mm)	83 x 130 x 153; Depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	960 g
Standards and Specifications	
Approvals/standards/specifications	CE; UL 508; ATEX; IEC Ex; ANSI/ISA 12.12.01 (Class I Div. 2)

Redundancy Module; 24 VDC / 40 A
787 Series



Redundancy Module; 2 x 24 VDC input voltage; 2 x 20 A input current; 24 VDC output voltage; 40 A output current; communication capability

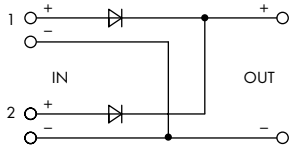
	Item No.	Pack. Unit
	787-885	1



Features:
- Redundancy module with two inputs for decoupling two power supplies
- For redundant and fail-safe power supply
- With LED and potential-free contact for input voltage monitoring on site and remotely

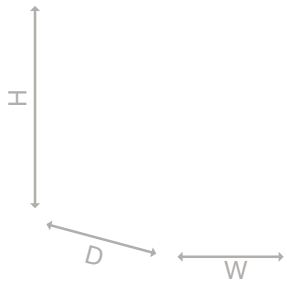
Input	
Nominal input voltage $U_{i\,nom}$	2 x 24 VDC
Input voltage range	2 x 18 … 30 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 20 A (per path)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Output voltage range	18 … 30 VDC (U_i – Voltage drop)
Voltage drop	≤ 0.6 V (input/output)
Nominal output current $I_{o\,nom}$	40 A
Output power (max.)	1200 W
Nominal output power	960 W
Signaling and Communication	
Signaling	1 x OUT LED (green); 1 x IN1 LED (yellow); 1 x IN2 LED (yellow); 1 x isolated relay contact (max. 30 VDC, 1 A)
Efficiency/Power Losses	
Power loss P_l	≤ 1.5 W (no load); ≤ 14 W (24 VDC; 20 A); ≤ 26 W (48 VDC; 40 A)
Efficiency (typ.)	97 %
Fuse Protection	
Internal fuse	No
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	Yes
Parallel operation/series operation	Yes/no
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–10 … +60 °C
Relative humidity	5 … 96 % (no condensation permissible)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Relay (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	40 x 181 x 163; height including connector; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	870 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; UL 60950; UL 508; EN 61000-6-2; EN 61000-6-3

Redundancy Module; 48 VDC / 40 A
787 Series



Redundancy Module; 2 x 48 VDC input voltage; 2 x 20 A input current; 48 VDC output voltage; 40 A output current; communication capability

	Item No.	Pack. Unit
	787-886	1



Features:
- Redundancy module with two inputs for decoupling two power supplies
- For redundant and fail-safe power supply
- With LED and potential-free contact for input voltage monitoring on site and remotely

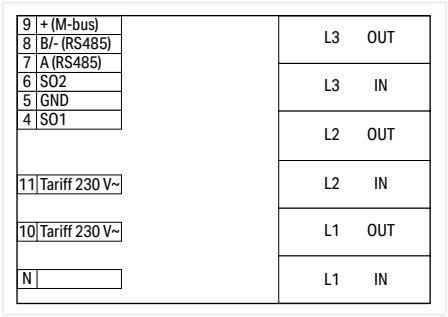
Input	
Nominal input voltage $U_{i\,nom}$	2 x 48 VDC
Input voltage range	2 x 36 … 54 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 20 A (per path)
Output	
Nominal output voltage $U_{o\,nom}$	48 VDC
Output voltage range	36 … 54 VDC (U_i – Voltage drop)
Voltage drop	≤ 1 V (input/output)
Nominal output current $I_{o\,nom}$	40 A
Output power (max.)	≤ 2160 W
Nominal output power	1920 W
Signaling and Communication	
Signaling	1 x OUT LED (green); 1 x IN1 LED (yellow); 1 x IN2 LED (yellow); 1 x isolated relay contact (max. 30 VDC, 1 A)
Efficiency/Power Losses	
Power loss P_l	≤ 1.7 W (48 VDC; no load); ≤ 20 W (48 VDC; 20 A); ≤ 40 W (48 VDC; 40 A)
Efficiency (typ.)	96 %
Fuse Protection	
Internal fuse	No
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	Yes
Parallel operation/series operation	Yes/no
MTBF	> 500.000 h (per IEC 61709)
Surrounding air temperature (operation)	–10 … +60 °C
Relative humidity	5 … 96 % (no condensation permissible)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Relay (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	40 x 181 x 163; height including connector; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	860 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 60950; UL 60950*; UL 508*; EN 61000-6-2; EN 61000-6-3 (*pending)

WAGO Current and Energy Measurement Technology

WAGO Current and Energy Measurement Technology

7

Energy Meter (MID); with Push-in CAGE CLAMP® and Lever; Direct Connection (4PU)
879 Series

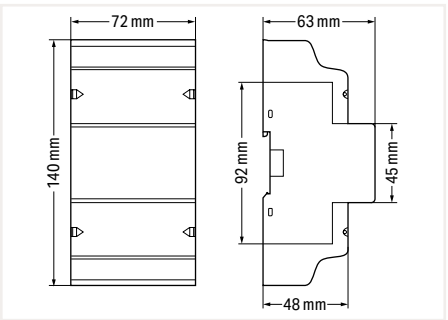


Energy Meter; with Push-in CAGE CLAMP® and Lever; Direct Connection (4PU)

Item No.	Pack. Unit
879-3000	1

Short description:
Comprehensive energy measurement is necessary for optimizing energy consumption. WAGO now has new energy meters in its portfolio that simplify this task while providing several key advantages. They use the push-in connection technology with a lever, making them connect quickly and easily. The devices have a width of just 72 mm for direct measurement. These widths save a tremendous amount of control cabinet space. In addition to the values for active and reactive energy, the energy meters also record the mains frequency as well as current, voltage and power for all phases. And the user can conveniently see all of these energy characteristics at a glance on a large, illuminated display.

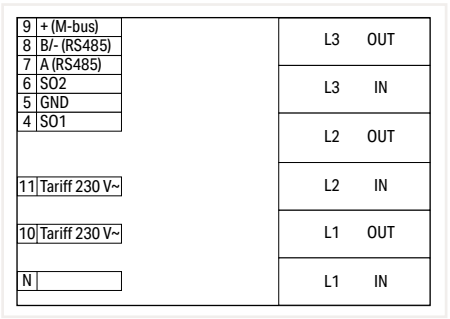
Features:
- **Saving time at every level thanks to the Push-in CAGE CLAMP® and lever**
- Real space savings: 72 mm wide (4PU)
- The communications pro: M-Bus and Modbus® interface and 2 S0 pulse outputs
- Full transparency at a glance: Display energy quality characteristics on an illuminated full-format display
- Intuitive configuration: Touch-sensitive controls and configuration app via *Bluetooth®*



Configuration	
Configuration options	Touch-sensitive controls; Configuration app via *Bluetooth®*
Input	
Input voltage range	3 x 230 … 400 VAC; ±20 %
Reference current I_{ref}	5 A
Input current	65 A
Frequency range	45 … 65 Hz
Network configuration	Two-wire, three-wire and four-wire networks
Power consumption $P_{max.}$	≤ 2 W/phase; ≤ 10 VA/phase
Measured variable	Active and reactive energy in supply and reference direction
Communication	
Communication	Modbus®; M-Bus; *Bluetooth®*
Interface	RS-485 (2-wire); 2x S0 interfaces (configurable)
Rate control input	230 VAC/VDC
Indicators	LCD with backlight
Measurement Error	
Accuracy class	Class B (= 1 % error); Active energy per EN 50470-3
Calibration validity period	8 years
Power Supply	
Power supply type	Via measurement circuit
Safety and Protection	
Dielectric strength	4 kV, 1 min; 1.2/50 µs at 6 kV
Protection class	IP51 (front side); IP20 (connection)
Protection class	II
Pollution degree	2
Connection Data	
Connection type (1)	Voltage/Current
Connection technology	Push-in CAGE CLAMP®
Actuation type	Lever
WAGO Connector	2616 Series
Solid conductor	0.75 … 16 mm² / 18 … 4 AWG
Fine-stranded conductor	0.75 … 25 mm² / 18 … 4 AWG
Fine-stranded conductor; with insulated ferrule	0.75 … 16 mm²
Fine-stranded conductor; with uninsulated ferrule	0.75 … 16 mm²
Fine-stranded conductor; with twin ferrule	0.75 … 6 mm²
Strip length	18 … 20 mm / 0.71 … 0.79 inch
Connection type 2	Communication and rate control input
Connection technology 2	Push-in CAGE CLAMP®
Actuation type 2	Lever
WAGO Connector 2	2604 Series
Solid conductor 2	0.2 … 4 mm² / 24 … 12 AWG
Fine-stranded conductor 2	0.2 … 4 mm² / 24 … 12 AWG
Fine-stranded conductor; with insulated ferrule 2	0.25 … 2.5 mm²
Fine-stranded conductor; with uninsulated ferrule 2	0.25 … 2.5 mm²
Fine-stranded conductor; with twin ferrule 2	0.25 … 1.5 mm²
Strip length 2	9 … 11 mm / 0.35 … 0.43 inch
Physical Data	
Width	72 mm
Height	140 mm
Depth	63 mm
Note (dimensions)	Height without cover: 92 mm
Mechanical Data	
Mounting type	DIN-35 rail (EN 60715)
Material Data	
Housing material	PC 940A

Environmental Requirements	
Surrounding air temperature (operation)	–40 … +70 °C
Relative humidity	≤ 75 % (during storage ≤ 95 %)
Standards and Specifications	
Conformity marking	CE
Standards/Specifications	EN 50470-1/3; MID-compliant

Energy Meter (MID); with Push-in CAGE CLAMP® and Lever; Direct Connection (4PS)
879 Series

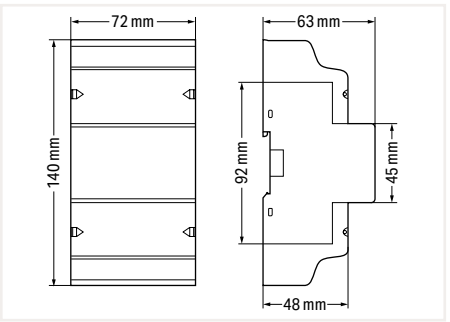


Energy Meter; with Push-in CAGE CLAMP® and Lever; Direct Connection (4PS)

Item No.	Pack. Unit
879-3020	1

Short description:
Comprehensive energy measurement is necessary for optimizing energy consumption. WAGO now has new energy meters in its portfolio that simplify this task while providing several key advantages. They use the push-in connection technology with a lever, making them connect quickly and easily. The devices have a width of just 72 mm for direct measurement. These widths save a tremendous amount of control cabinet space. In addition to the values for active and reactive energy, the energy meters also record the mains frequency as well as current, voltage and power for all phases. And the user can conveniently see all of these energy characteristics at a glance on a large, illuminated display.

Features:
- **Saving time at every level thanks to the Push-in CAGE CLAMP® and lever**
- Real space savings: 72 mm wide (4PS)
- The communications pro: M-Bus and Modbus® interface and 2 S0 pulse outputs
- Full transparency at a glance: Display energy quality characteristics on an illuminated full-format display
- Intuitive configuration: Touch-sensitive controls and configuration app via *Bluetooth®*



Configuration	
Configuration options	Touch-sensitive controls; Configuration app via *Bluetooth®*
Input	
Input voltage range	3 x 230 … 400 VAC; ±20 %
Reference current I_{ref}	5 A
Input current	65 A
Frequency range	45 … 65 Hz
Network configuration	Two-wire, three-wire and four-wire networks
Power consumption $P_{max.}$	≤ 2 W/phase; ≤ 10 VA/phase
Measured variable	Active and reactive energy in supply and reference direction
Communication	
Communication	Modbus®; M-Bus; *Bluetooth®*
Interface	RS-485 (2-wire); 2x S0 interfaces (configurable)
Rate control input	230 VAC/VDC
Indicators	LCD with backlight
Measurement Error	
Accuracy class	Class B (= 1 % error); Active energy per EN 50470-3
Calibration validity period	8 years
Power Supply	
Power supply type	Via measurement circuit
Safety and Protection	
Dielectric strength	4 kV, 1 min; 1.2/50 µs at 6 kV
Protection class	IP51 (front side); IP20 (connection)
Protection class	II
Pollution degree	2
Connection Data	
Connection type (1)	Voltage/Current
Connection technology	Push-in CAGE CLAMP®
Actuation type	Lever
WAGO Connector	2616 Series
Solid conductor	0.75 … 16 mm² / 18 … 4 AWG
Fine-stranded conductor	0.75 … 25 mm² / 18 … 4 AWG
Fine-stranded conductor; with insulated ferrule	0.75 … 16 mm²
Fine-stranded conductor; with uninsulated ferrule	0.75 … 16 mm²
Fine-stranded conductor; with twin ferrule	0.75 … 6 mm²
Strip length	18 … 20 mm / 0.71 … 0.79 inch
Connection type 2	Communication and rate control input
Connection technology 2	Push-in CAGE CLAMP®
Actuation type 2	Lever
WAGO Connector 2	2604 Series
Solid conductor 2	0.2 … 4 mm² / 24 … 12 AWG
Fine-stranded conductor 2	0.2 … 4 mm² / 24 … 12 AWG
Fine-stranded conductor; with insulated ferrule 2	0.25 … 2.5 mm²
Fine-stranded conductor; with uninsulated ferrule 2	0.25 … 2.5 mm²
Fine-stranded conductor; with twin ferrule 2	0.25 … 1.5 mm²
Strip length 2	9 … 11 mm / 0.35 … 0.43 inch
Physical Data	
Width	72 mm
Height	140 mm
Depth	63 mm
Note (dimensions)	Height without cover: 92 mm
Mechanical Data	
Mounting type	DIN-35 rail (EN 60715)
Material Data	
Housing material	PC 940A

Environmental Requirements	
Surrounding air temperature (operation)	–40 … +70 °C
Relative humidity	≤ 75 % (during storage ≤ 95 %)
Standards and Specifications	
Conformity marking	CE
Standards/Specifications	EN 50470-1/3; MID-compliant

Energy Meter (MID); with Push-in CAGE CLAMP® and Lever; Transformer Connection (2PCT)
879 Series

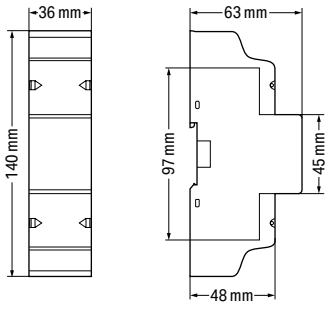
11	Tariff 230 V~	9	+ (M-bus)		CT3 OUT
10	Tariff 230 V~	8	B/- (RS485)		CT3 IN
N		7	A (RS485)		CT2 OUT
U3		6	SO2		CT2 IN
U2		5	GND		CT1 OUT
U1		4	SO1		CT1 IN

Energy Meter; with Push-in CAGE CLAMP® and Lever; Transformer Connection (2PCT)

	Item No.	Pack. Unit
	879-3040	1

Short description:
Comprehensive energy measurement is necessary for optimizing energy consumption. WAGO now has new energy meters in its portfolio that simplify this task while providing several key advantages. They use the push-in connection technology with a lever, making them connect quickly and easily. Versions for current transformers are even slimmer at only 35 mm. These widths save a tremendous amount of control cabinet space. In addition to the values for active and reactive energy, the energy meters also record the mains frequency as well as current, voltage and power for all phases. And the user can conveniently see all of these energy characteristics at a glance on a large, illuminated display.

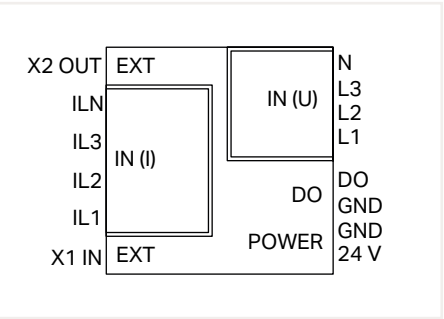
Features:
- **Saving time at every level thanks to the Push-in CAGE CLAMP® and lever**
- Real space savings: 35 mm wide (2PCT)
- The communications pro: M-Bus and Modbus® interface and 2 S0 pulse outputs
- Full transparency at a glance: Display energy quality characteristics on an illuminated full-format display
- Intuitive configuration: Touch-sensitive controls and configuration app via *Bluetooth®*



Configuration	
Configuration options	Touch-sensitive controls; Configuration app via *Bluetooth®*
Input	
Input voltage range	3 x 230 … 400 VAC; ±20 %
Reference current I_{ref}	1 A
Input current	6 A
Current transformer (secondary)	1 A / 5 A
Current transformer ratio	1 … 10.000
Frequency range	45 … 65 Hz
Network configuration	Two-wire, three-wire and four-wire networks
Power consumption $P_{max.}$	≤ 2 W/phase; ≤ 10 VA/phase
Measured variable	Active and reactive energy in supply and reference direction
Communication	
Communication	Modbus®; M-Bus; *Bluetooth®*
Interface	RS-485 (2-wire); 2x S0 interfaces (configurable)
Rate control input	230 VAC/VDC
Indicators	LCD with backlight
Measurement Error	
Accuracy class	Class B (= 1 % error); Active energy per EN 50470-3
Calibration validity period	8 years
Power Supply	
Power supply type	Via measurement circuit
Safety and Protection	
Dielectric strength	4 kV, 1 min; 1.2/50 µs at 6 kV
Protection class	IP51 (front side); IP20 (connection)
Protection class	II
Pollution degree	2
Connection Data	
Connection type (1)	Voltage/Current
Connection technology	Push-in CAGE CLAMP®
Actuation type	Lever
WAGO Connector	2604 Series
Solid conductor	0.2 … 4 mm² / 24 … 12 AWG
Fine-stranded conductor	0.2 … 4 mm² / 24 … 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 … 2.5 mm²
Fine-stranded conductor; with uninsulated ferrule	0.25 … 2.5 mm²
Fine-stranded conductor; with twin ferrule	0.25 … 1.5 mm²
Strip length	9 … 11 mm / 0.35 … 0.43 inch
Connection type 2	Communication and rate control input
Connection technology 2	Push-in CAGE CLAMP®
Actuation type 2	Lever
WAGO Connector 2	2604 Series
Solid conductor 2	0.2 … 4 mm² / 24 … 12 AWG
Fine-stranded conductor 2	0.2 … 4 mm² / 24 … 12 AWG
Fine-stranded conductor; with insulated ferrule 2	0.25 … 2.5 mm²
Fine-stranded conductor; with uninsulated ferrule 2	0.25 … 2.5 mm²
Fine-stranded conductor; with twin ferrule 2	0.25 … 1.5 mm²
Strip length 2	9 … 11 mm / 0.35 … 0.43 inch
Physical Data	
Width	36 mm
Height	140 mm
Depth	63 mm
Note (dimensions)	Height without cover: 98.2 mm
Mechanical Data	
Mounting type	DIN-35 rail (EN 60715)
Material Data	
Housing material	PC 940A

Environmental Requirements	
Surrounding air temperature (operation)	–40 … +70 °C
Relative humidity	≤ 75 % (during storage ≤ 95 %)
Standards and Specifications	
Conformity marking	CE
Standards/Specifications	EN 50470-1/3; MID-compliant

3-Phase Power Measurement Module; 3 x 400 / 690 V; 1 A; Modbus RTU
Serie 2857



3-Phase Power Measurement Module; 3x400/690 V/1 A; Modbus RTU; Digital output; Configuration via software; Supply voltage: 24 VDC

	Item No.	Pack. Unit
	2857-570/024-001	1

Short description:
WAGO's 3-phase power measurement module in a DIN-rail-mount enclosure measures electrical data in three-phase supply networks – remotely from the control level.
Measured variables such as active/apparent/reactive power, energy consumption, power factor, phase angle and frequency can be accessed via Modbus® Interface. In addition, the measured variables can be stored on a microSD card.

Features:
- Current measurement via 1A current transformer
- Mobile measurement and storage of measured values on microSD card
- Configuration and display of measured values during operation via configuration interface
- Compact device in DIN-rail-mount enclosure saves space used for building technology
- Communication of measured values via Modbus® Interface
- Configurable digital signal output as pulse output

Note:
- Additional setting options via interface configuration software

Specialty Functions:

Configuration via:

Configuration	
Configuration options	WAGO interface configuration software
Input	
Input signal type	Voltage; Current
Network configuration	3-phase power measurement with N-conductor (4-conductor); 3-phase power measurement without N-conductor (3-conductor)
Input signal (voltage)	AC 400 V (U_{LN}); AC 690 V (U_{LL})
Input signal (current)	AC 1 A; (Current transformer)
Frequency range	45 … 65 Hz (Harmonics analysis: 0 … 3.3 kHz)
Input resistance (current input)	22 mΩ
Input resistance (voltage input)	1.5 MΩ
Input current (max.)	1 AAC
Input voltage (max.)	400 VAC (U_{LN}); 690 VAC (U_{LL})
Response threshold	10 mA
Resolution (current)	10 mA
Output – digital	
Switching voltage (DO) (max.)	Supply voltage (applied)
Continuous current (DO) (max.)	100 mA (no internal restriction)
Configurable functions (DO)	Threshold value switch; Pulse output (S0 interface)
Communication	
Communication	Modbus® RTU
Interface	RS-485 (2-wire) via RJ-45
Number of devices (max.)	32
Addressing	Via Interface configuration software
Signal processing	
Measurement method	True RMS measurement (measured value acquisition with 8 kHz)
Measured variables (calculated)	Line-to-line voltage; Outputs; Energy sources; Energy sources; Power factors; Mains frequency; Harmonics analysis (up to 41st harmonic); Total harmonic distortion (THD)
Signal form	Any periodic signals (considering the threshold frequencies)
Limit frequency	15.9 kHz
Memory card type	WAGO 758-879/000-3102 (microSD; 2 GB)
Measuremtent error	
Transmission error (max.)	≤ 0.5 % for current and voltage (of the full scale value)
Supply	
Nominal supply voltage U_S	DC 24 V (SELV)
Supply voltage range	±30 %
Power consumption at nominal supply voltage	≤ 50 mA (+ IDO)
Safety and protection	
Line-to-neutral conductor voltage	AC / DC 600 V
Overvoltage category	III
Pollution degree	2
Safe isolation	Input/supply and communication per EN 61010-1
Requirement (N input)	Shall not be dangerously active
Requirement (ILx input)	Coils/converters with basic insulation
Protection type	IP20
Test voltage	
Test voltage (input/output/supply)	AC 3.51 kV; 50 Hz; 1 min

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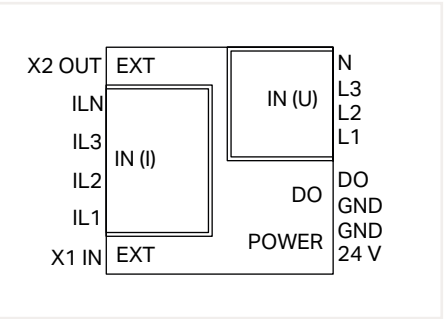
Connection data	
Connection type 1	Voltage
Connection technology 1	Push-in CAGE CLAMP®
WAGO Connector 1	WAGO 804 Series
Solid conductor 1	0.25 … 2.5 mm² / 20 … 12 AWG
Fine-stranded conductor 1	0.25 … 2.5 mm² / 22 … 12 AWG
Strip length 1	10 … 11 mm / 0.39 … 0.43 inch
Connection type 2	Current/Power supply/DO
Connection technology 2	Push-in CAGE CLAMP®
WAGO Connector 2t	WAGO 805 Series
Solid conductor 2	0.2 … 1.5 mm² / 24 … 16 AWG
Fine-stranded conductor 2	0.2 … 1.5 mm² / 24 … 16 AWG
Strip length 2	9 … 10 mm / 0.35 … 0.39 inch
Connection type 3	Modbus® communication
Pluggable connectors 3	2 x RJ-45 (daisy chain configuration)
Physical data	
Width	72 mm / 2.835 inch
Height from upper-edge of DIN-rail	55 mm / 2.165 inch
Depth	90 mm / 3.54 inch
Mechanical data	
Mounting type	DIN-35 rail
Material data	
Weight	115.6 g
Environmental requirements	
Surrounding air temperature (operation)	-40 … 70 °C
Surrounding air temperature (storage)	-40 … 85 °C
Relative humidity	5 … 95 % (non-condensing)
Standards and specifications	
Conformity marking	CE
EMC immunity to interference	EN 61000-6-2
EMC emission of interference	EN 61000-6-3
Standards/Specifications	EN 61010-1

3-Phase Power Measurement Module; 3 x 400 / 690 V; 5 A; Modbus RTU
Serie 2857



3-Phase Power Measurement Module; 3x400/690 V/5 A; Modbus RTU; Digital output; Configuration via software; Supply voltage: 24 VDC

	Item No.	Pack. Unit
	2857-570/024-005	1

Short description:
WAGO's 3-phase power measurement module in a DIN-rail-mount enclosure measures electrical data in three-phase supply networks – remotely from the control level. Measured variables such as active/apparent/reactive power, energy consumption, power factor, phase angle and frequency can be accessed via Modbus® Interface. In addition, the measured variables can be stored on a microSD card.

Features:
- Current measurement via 5A current transformer
- Mobile measurement and storage of measured values on microSD card
- Configuration and display of measured values during operation via configuration interface
- Compact device in DIN-rail-mount enclosure saves space used for building technology
- Communication of measured values via Modbus® Interface
- Configurable digital signal output as pulse output

Note:
- Additional setting options via interface configuration software

Specialty Functions:

Configuration via:

Configuration	
Configuration options	WAGO interface configuration software
Input	
Input signal type	Voltage; Current
Network configuration	3-phase power measurement with N-conductor (4-conductor); 3-phase power measurement without N-conductor (3-conductor)
Input signal (voltage)	AC 400 V (U_{LN}); AC 690 V (U_{LL})
Input signal (current)	AC 5 A; (Current transformer)
Frequency range	45 … 65 Hz (Harmonics analysis: 0 … 3.3 kHz)
Input resistance (current input)	22 mΩ
Input resistance (voltage input)	1.5 MΩ
Input current (max.)	5 AAC
Input voltage (max.)	400 VAC (U_{LN}); 690 VAC (U_{LL})
Response threshold	5 mA
Resolution (current)	0.15 mA
Output – digital	
Switching voltage (DO) (max.)	Supply voltage (applied)
Continuous current (DO) (max.)	100 mA (no internal restriction)
Configurable functions (DO)	Threshold value switch; Pulse output (S0 interface)
Communication	
Communication	Modbus® RTU
Interface	RS-485 (2-wire) via RJ-45
Number of devices (max.)	32
Addressing	Via Interface configuration software
Signal processing	
Measurement method	True RMS measurement (measured value acquisition with 8 kHz)
Measured variables (calculated)	Line-to-line voltage; Outputs; Energy sources; Power factors; Mains frequency; Harmonics analysis (up to 41st harmonic); Total harmonic distortion (THD)
Signal form	Any periodic signals (considering the threshold frequencies)
Limit frequency	15.9 kHz
Memory card type	WAGO 758-879/000-3102 (microSD; 2 GB)
Measurement error	
Transmission error (max.)	≤ 0.5 % for current and voltage (of the full scale value)
Supply	
Nominal supply voltage U_S	DC 24 V (SELV)
Supply voltage range	±30 %
Power consumption at nominal supply voltage	≤ 50 mA (+ IDO)
Safety and protection	
Line-to-neutral conductor voltage	AC / DC 600 V
Overvoltage category	III
Pollution degree	2
Safe isolation	Input/supply and communication per EN 61010-1
Requirement (N input)	Shall not be dangerously active
Requirement (ILx input)	Coils/converters with basic insulation
Protection type	IP20
Test voltage	
Test voltage (input/output/supply)	AC 3.51 kV; 50 Hz; 1 min

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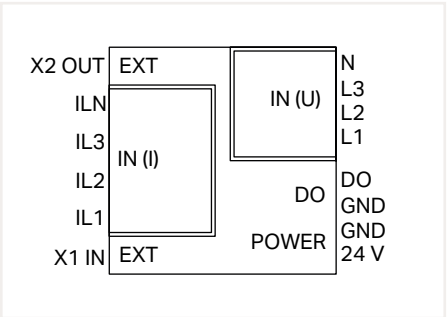
Connection data	
Connection type 1	Voltage
Connection technology 1	Push-in CAGE CLAMP®
WAGO Connector 1	WAGO 804 Series
Solid conductor 1	0.25 … 2.5 mm² / 20 … 12 AWG
Fine-stranded conductor 1	0.25 … 2.5 mm² / 22 … 12 AWG
Strip length 1	10 … 11 mm / 0.39 … 0.43 inch
Connection type 2	Current/Power supply/DO
Connection technology 2	Push-in CAGE CLAMP®
WAGO Connector 2t	WAGO 805 Series
Solid conductor 2	0.2 … 1.5 mm² / 24 … 16 AWG
Fine-stranded conductor 2	0.2 … 1.5 mm² / 24 … 16 AWG
Strip length 2	9 … 10 mm / 0.35 … 0.39 inch
Connection type 3	Modbus® communication
Pluggable connectors 3	2 x RJ-45 (daisy chain configuration)
Physical data	
Width	72 mm / 2.835 inch
Height from upper-edge of DIN-rail	55 mm / 2.165 inch
Depth	90 mm / 3.54 inch
Mechanical data	
Mounting type	DIN-35 rail
Material data	
Weight	115.6 g
Environmental requirements	
Surrounding air temperature (operation)	-40 … 70 °C
Surrounding air temperature (storage)	-40 … 85 °C
Relative humidity	5 … 95 % (non-condensing)
Standards and specifications	
Conformity marking	CE
EMC immunity to interference	EN 61000-6-2
EMC emission of interference	EN 61000-6-3
Standards/Specifications	EN 61010-1

3-Phase Power Measurement Module; 3 x 400 / 690 V; RC; Modbus RTU
Serie 2857



3-Phase Power Measurement Module; 3x400/690 V/RC; Modbus RTU; Digital output; Configuration via software; Supply voltage: 24 VDC

	Item No.	Pack. Unit
	2857-570/024-000	1

Short description:
WAGO's 3-phase power measurement module in a DIN-rail-mount enclosure measures electrical data in three-phase supply networks – remotely from the control level. Measured variables such as active/apparent/reactive power, energy consumption, power factor, phase angle and frequency can be accessed via Modbus® Interface. In addition, the measured variables can be stored on a microSD card.

Features:
- Current measurement via Rogowski Coils RC xxx
- Mobile measurement and storage of measured values on microSD card
- Configuration and display of measured values during operation via configuration interface
- Compact device in DIN-rail-mount enclosure saves space used for building technology
- Communication of measured values via Modbus® Interface
- Configurable digital signal output as pulse output

Note:
- Additional setting options via interface configuration software

Specialty Functions:

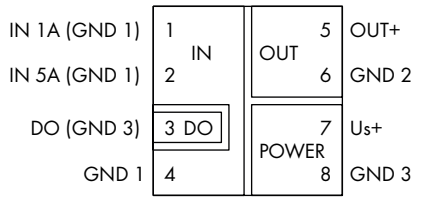
Configuration via:

Configuration	
Configuration options	WAGO interface configuration software
Input	
Input signal type	Voltage; Current
Network configuration;	3-phase power measurement with N-conductor (4-conductor); 3-phase power measurement without N-conductor (3-conductor)
Input signal (voltage)	AC 400 V (U_{LN}); AC 690 V (U_{LL}); AC 90 mV (WAGO Rogowski Coils RC xxx)
Sensitivity	22.5 mV/kA (WAGO Rogowski Coils RC xxx)
Measurement range (current)	4 x AC 4000 A (WAGO Rogowski Coils RC xxx)
Frequency range	45 … 65 Hz (Harmonics analysis: 0 … 3.3 kHz)
Output – digital	
Switching voltage (DO) (max.)	Supply voltage (applied)
Continuous current (DO) (max.)	100 mA (no internal restriction)
Configurable functions (DO)	Threshold value switch; Pulse output (S0 interface)
Communication	
Communication	Modbus® RTU
Interface	RS-485 (2-wire) via RJ-45
Number of devices (max.)	32
Addressing	Via Interface configuration software
Signal processing	
Measurement method	True RMS measurement (measured value acquisition with 8 kHz)
Measured variables (calculated)	Line-to-line voltage; Outputs; Energy sources; Power factors; Mains frequency; Harmonics analysis (up to 41st harmonic); Total harmonic distortion (THD)
Signal form	Any periodic signals (considering the threshold frequencies)
Limit frequency	15.9 kHz
Memory card type	WAGO 758-879/000-3102 (microSD; 2 GB)
Measurement error	
Transmission error (max.)	≤ 0.5 % for current and voltage (of the full scale value)
Supply	
Nominal supply voltage U_S	DC 24 V (SELV)
Supply voltage range	±30 %
Power consumption at nominal supply voltage	≤ 50 mA (+ IDO)
Safety and protection	
Line-to-neutral conductor voltage	AC / DC 600 V
Overvoltage category	III
Pollution degree	2
Safe isolation	Input/supply and communication per EN 61010-1
Requirement (N input)	Shall not be dangerously active
Requirement (ILx input)	Coils/converters with basic insulation
Protection type	IP20
Test voltage	
Test voltage (input/output/supply)	AC 3.51 kV; 50 Hz; 1 min

» Configuration software Page 326

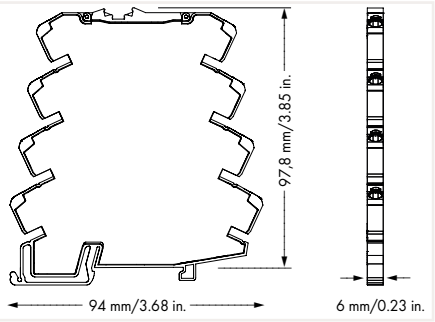
Connection data	
Connection type 1	Voltage
Connection technology 1	Push-in CAGE CLAMP®
WAGO Connector 1	WAGO 804 Series
Solid conductor 1	0.25 … 2.5 mm² / 20 … 12 AWG
Fine-stranded conductor 1	0.25 … 2.5 mm² / 22 … 12 AWG
Strip length 1	10 … 11 mm / 0.39 … 0.43 inch
Connection type 2	Current/Power supply/DO
Connection technology 2	Push-in CAGE CLAMP®
WAGO Connector 2t	WAGO 805 Series
Solid conductor 2	0.2 … 1.5 mm² / 24 … 16 AWG
Fine-stranded conductor 2	0.2 … 1.5 mm² / 24 … 16 AWG
Strip length 2	9 … 10 mm / 0.35 … 0.39 inch
Connection type 3	Modbus® communication
Pluggable connectors 3	2 x RJ-45 (daisy chain configuration)
Physical data	
Width	72 mm / 2.835 inch
Height from upper-edge of DIN-rail	55 mm / 2.165 inch
Depth	90 mm / 3.54 inch
Mechanical data	
Mounting type	DIN-35 rail
Material data	
Weight	117.6 g
Environmental requirements	
Surrounding air temperature (operation)	-40 … 70 °C
Surrounding air temperature (storage)	-40 … 85 °C
Relative humidity	5 … 95 % (non-condensing)
Standards and specifications	
Conformity marking	CE
EMC immunity to interference	EN 61000-6-2
EMC emission of interference	EN 61000-6-3
Standards/Specifications	EN 61010-1

Current Signal Conditioner; Configurable; with Digital Output
857 Series



Current signal conditioner; Current input signal; Current and voltage output signal; Digital output; Configuration via software; Supply voltage: 24 VDC; 6 mm module width

	Item No.	Pack. Unit
	857-550	1



Short description:
WAGO's current signal conditioner measures both 0–1 A and 0–5 A AC/DC currents, converting the input signal to an standard analog signal at the output.

Features:
- PC configuration interface
- True RMS measurement or arithmetic mean value
- Digital switching output (configurable switching thresholds)
- Switchable filter function
- Calibrated measurement range switching
- Safe 3-way isolation with 2.5 kV test voltage per EN 61140
- Extremely fast response times
- Measurement range overflow indication

Note:
Additional setting options via interface configuration software/app

Configuration	
Configuration options	DIP switch; WAGO interface configuration software; WAGO interface configuration app
Input	
Input signal type	Current
Input signal (current)	0 ...1 A AC/DC (IN 1); 0 ...5 A AC/DC (IN 2)
Frequency range	16 … 400 Hz
Input resistance (current input)	47 mΩ (IN 1); 10 mΩ (IN 2)
Input current (max.)	10 A (IN 1; 5 s); 15 A (IN 2; 5 s)
Response threshold	2 mA (IN 1); 4 mA (IN 2)
Output	
Output signal type	Current; Voltage
Output signal (voltage)	0 … 5 V; 1 … 5 V; 0 … 10 V; 2 … 10 V
Output signal (current)	0 … 10 mA; 2 … 10 mA; 0 … 20 mA; 4 … 20 mA
Load impedance (voltage output)	≥ 2 kΩ (temperature range restrictions may occur)
Load impedance (current output)	≤ 600 Ω (temperature range restrictions may occur)
Output – Digital	
Max. switching voltage (DO)	Supply voltage applied
Max. continuous current (DO)	100 mA (no internal restriction)
Number of switching thresholds (DO)	1 (adjustable)
Signal Processing	
Measurement method	True RMS measurement; Arithmetic mean value
Software filter (adjustable)	Moving average value (filter level: 30)
Step response (typ.)	60 ms
Measurement Error	
Transmission error (typ.)	≤ 0.1 % of upper-range value
Transmission error (max.)	≤ 0.4 % of upper-range value
Temperature coefficient	≤ 0.01 %/K
Power Supply	
Nominal supply voltage U_s	24 VDC
Supply voltage range	±30 %
Power consumption at nominal supply voltage	≤ 40 mA (+ IDO)
Safety and Protection	
Test voltage (input/output/supply)	2.5 kVAC; 50 Hz; 1 min
Protection type	IP20
Connection Data	
Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.08 … 2.5 mm² / 28 … 14 AWG
Fine-stranded conductor	0.34 … 2.5 mm² / 22 … 14 AWG
Strip length	9 … 10 mm / 0.35 … 0.39 inch
Geometric Data	
Width	6 mm / 0.236 inch
Height from upper-edge of DIN-rail	97.8 mm / 3.85 inch
Depth	94 mm / 3.701 inch
Mechanical Data	
Mounting type	DIN-35 rail
Material Data	
Weight	64 g
Environmental Requirements	
Surrounding air temperature (operation)	–25 °C … +70 °C (at nominal current)
Surrounding air temperature (storage)	–40 … +85 °C

Specialty Functions:

Configuration via:

Standards and Specifications	
Conformity marking	CE
EMC immunity to interference	EN 61000-6-2
EMC emission of interference	EN 61000-6-4

857-550

DIP Switch Adjustability

● = ON **Default**

DIP Switch S1

Input Signal		Measurement Method		Filter		Output Signal			
1		2		3		4	5	6	
	5 A		Mean square value		off				0 ... 20 mA
●	1 A	●	Arithmetic mean value	●	active		●		4 ... 20 mA
						●			0 ... 10 V
						●	●		2 ... 10 V
								●	0 ... 10 mA
							●	●	2 ... 10 mA
						●		●	0 ... 5 V
						●	●	●	1 ... 5 V

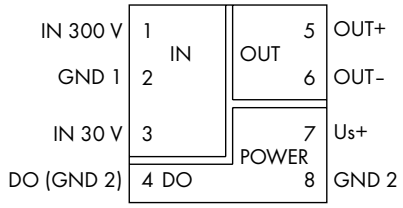
Filter:
The filter function allows a low-pass filter to be switched on in order to mask or "smooth out" oscillating measured values (e.g., during trailing edge flows).

DIP Switch S1

7	8	Measurement Range Underflow	Measurement Range Overflow	Overcurrent (Input Signal - End Value + 20%)	9	10	Digit Output DO Signaling
		Lower limit of measurement range -5 %*	Upper limit of measurement range +2.5 %*	Upper limit of measurement range +5 %*			DO not active
●		Lower limit of measurement range	Upper limit of measurement range +2.5 %	Upper limit of measurement range +5 %		●	DO U_s+ switching
	●	Lower limit of measurement range	Upper limit of measurement range	Lower limit of measurement range	●	●	DO GND switching
●	●	Lower limit of measurement range	Upper limit of measurement range	Upper limit of measurement range			*acc. to NAMUR NE 43

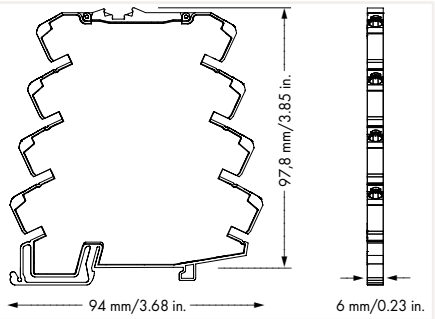
7

Voltage Signal Conditioner; Configurable; with Digital Output
857 Series



Voltage signal conditioner; Voltage input signal; Current and voltage output signal; Digital output; Configuration via software; Supply voltage: 24 VDC; 6 mm module width

	Item No.	Pack. Unit
	857-560	1



Short description:
WAGO's voltage signal conditioner measures AC/DC voltages up to 300 V, converting the input signal into a standard analog signal at the output.

Features:
- Two isolated measurement inputs for 30 and 300 V AC/DC
- RMS measurement or arithmetic mean value
- A digital signal output reacts to configured measurement range limits (on/off switching delay and threshold value switch function can be configured with up to two threshold values)
- Switchable filter function
- Safe 3-way isolation with 3 kV test voltage per DIN EN 61010-1

Configuration	
Configuration options	DIP switch; WAGO interface configuration software; WAGO interface configuration app
Input	
Input signal type	Voltage
Input signal (voltage)	300 V AC/DC (IN 1); 30 V AC/DC (IN 2)
Frequency range	10 … 100 Hz (AC)
Input resistance (voltage input)	≥ 300 kΩ
Response threshold	300 mV (IN 1); 30 mV (IN 2)
Resolution	30 mV (IN 1); 3 mV (IN 2)
Output	
Output signal type	Current; Voltage
Output signal (voltage)	0 … 5 V; 1 … 5 V; 0 … 10 V; 2 … 10 V (can be inverted, also bipolar)
Output signal (current)	0 … 10 mA; 2 … 10 mA; 0 … 20 mA; 4 … 20 mA (can be inverted, also bipolar)
Load impedance (voltage output)	≥ 1 kΩ
Load impedance (current output)	≤ 600 Ω
Output – Digital	
Max. switching voltage (DO)	Supply voltage applied
Max. continuous current (DO)	100 mA (no internal restriction)
Number of switching thresholds (DO)	1 or 2 (adjustable)
Configurable rise/fall delay time (DO)	0 … 60 s (via software)
Signal Processing	
Measurement method	RMS measurement; Arithmetic mean value
Limit frequency	2 kHz
Software filter (adjustable)	Moving average value (filter level: 30)
Step response (typ.)	30 ms
Measurement Error	
Transmission error (max.)	≤ 0.5 % (of the full scale value)
Temperature coefficient	≤ 0.01 %/K
Power Supply	
Nominal supply voltage U_s	24 VDC
Supply voltage range	±30 %
Power consumption at nominal supply voltage	≤ 46 mA (+ IDO)
Safety and Protection	
Test voltage (input/analog output/supply/service interface)	2.5 kVAC; 50 … 60 Hz; 1 min
Protection type	IP20
Connection Data	
Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.08 … 2.5 mm² / 28 … 14 AWG
Fine-stranded conductor	0.34 … 2.5 mm² / 22 … 14 AWG
Strip length	9 … 10 mm / 0.35 … 0.39 inch
Geometric Data	
Width	6 mm / 0.236 inch
Height from upper-edge of DIN-rail	97.8 mm / 3.85 inch
Depth	94 mm / 3.701 inch
Mechanical Data	
Mounting type	DIN-35 rail
Material Data	
Weight	34 g
Environmental Requirements	
Surrounding air temperature (operation)	–25 °C … +70 °C (at nominal current)
Surrounding air temperature (storage)	–40 … +85 °C
Operating altitude (max.)	2000 m

» Configuration software Page 326
» Configuration app Page 327
» Accessories Page 338

Specialty Functions:

Configuration via:



Standards and Specifications	
Conformity marking	CE
EMC immunity to interference	EN 61000-6-2; EN 61326-2-3; EN 50121-3-2
EMC emission of interference	EN 61000-6-3; EN 61326-2-3; EN 50121-3-2
Standards/specifications	EN 61010-1; EN 61373

857-560

DIP Switch Adjustability

● = ON **Default**

DIP Switch S1

1	2	Input	3	Measurement Method	4	Filter
		300 V		Effective value (RMS)		off
	●	150 V	●	Arithmetic mean value (bipolar output)	●	active
●		30 V				
●	●	15 V				

DIP Switch S1

5	6	7	Output Signal Range (Bipolar for Arithmetic Mean Value)
			(+/-) 0 ... 20 mA
	●		4 ... 20 mA
●			(+/-) 0 ... 10 V
●	●		2 ... 10 V
		●	(+/-) 0 ... 10 mA
	●	●	2 ... 10 mA
●		●	(+/-) 0 ... 5 V
●	●	●	1 ... 5 V

DIP Switch S1

8	9	Measurement Range Underflow	Measurement Range Overflow	10	Digital Output DO/ Signaling
		Lower limit of measurement range -5 %*	Upper limit of measurement range +2.5 %*		DO V_s + switching
●		Lower limit of measurement range	Upper limit of measurement range +2.5 %	●	DO GND switching
	●	Lower limit of measurement range	Upper limit of measurement range		
●	●	Lower limit of measurement range	Upper limit of measurement range		

*acc. to NAMUR NE 43

Filter
The filter function allows a low-pass filter to be switched on in order to mask or "smooth out" oscillating measured values (e.g., during trailing edge flows).

Digital Output DO/Signaling
The digital output (DO) signals error messages and can be configured as follows: 24 V → 0 V/0 V → 24 V.

Current Sensor with Bus Connection; in DIN-Rail-Mount Enclosure
789 Series

Current signal conditioner; Current input signal: 140 ADC; Modbus RTU; Supply voltage: 24 VDC; Module width: 35 mm

	Item No.	Pack. Unit
	789-621	1

Short description:
WAGO's intelligent current sensor monitors solar plants or inverters for DC measurements within a large current measurement range. The sensor is mounted on DIN-35 rail.

Input	
Input signal type	Current
Input signal, current	0 … 140 ADC
Resolution [bit]	15 bits
Communication	
Communication	Modbus® RTU
Interface	RS-485
Transmission channels	Half duplex; 8-bit data; 1 stop bit
Number of participants (max.)	32
Bus length (max.)	≤ 1200 m
Parity	Even
Baud rate	19.2 kB
Terminating resistor	150 Ω (can be activated via DIP switch 1)
Measurement Error	
Transmission error (typ.)	≤ 0.5 % of upper-range value (0 … 80 A; at room temperature); ≤ 1 % of upper-range value (80 … 140 A; at room temperature)
Temperature coefficient	≤ 0.05 %/K (−20 … +60 °C); ≤ 0.1 %/K (−60 … +70 °C)
Power Supply	
Supply voltage range	12 … 34 VDC
Power consumption at nominal supply voltage	≤ 8 mA
Safety and Protection	
Protection type	IP20
Connection Data	
Feedthrough for measurement conductor	15 mm Ø
Connector	RJ-45
Geometric Data	
Width	35 mm / 1.378 inch
Height from upper-edge of DIN-rail	55 mm / 2.165 inch
Depth	90 mm / 3.543 inch
Mechanical Data	
Mounting type	DIN-35 rail
Material Data	
Weight	77.22 g
Environmental Requirements	
Surrounding air temperature (operation)	−20 … +70 °C
Surrounding air temperature (storage)	−40 … +85 °C
Standards and Specifications	
Conformity marking	CE
EMC immunity to interference	EN 61000-6-2
EMC emission of interference	EN 61000-6-4
Standards/specifications	DIN EN 50178

Accessories

Interface Module with RJ-45 Connector

Item No.	Pack. Unit
289-965	1

Interface Module with RJ-45 Connector and Shield Clamping Saddle

Color	Item No.	Pack. Unit
white	289-966	1

ETHERNET RJ-45 Connector

Item No.	Pack. Unit
750-975	1

789-621

RJ-45-Connector Pin Assignment:

Pin	Function
1	Ub
2	
3	n.c.
4	A (Data+)
5	B (Data-)
6	n.c.
7	GND
8	

Communication Description:

Modbus® Function	Read Holding Registers (0x03)
Address of Measured Value	0x0004
Data Type Measurement	Integer

Error Numbers	
id	Description
01	Illegal Function
03	Illegal Data
101	Overflow (Current > +83 A)
102	Underflow (Current < -3 A)

DIP Switch Adjustability

● = ON

Adress	DIP Switch					Terminating Resistor	DIP Switch 1
	2	3	4	5	6	-	
1						150 Ohm	●
2					●		
3				●			
4				●	●		
5			●				
6			●		●		
7			●	●			
8			●	●	●		
9		●					
10		●			●		
11		●		●			
12		●		●	●		
13		●	●				
14		●	●		●		
15		●	●	●			
16		●	●	●	●		
17	●						
18	●				●		
19	●			●			
20	●			●	●		
21	●		●				
22	●		●		●		
23	●		●	●			
24	●		●	●	●		
25	●	●					
26	●	●			●		
27	●	●		●			
28	●	●		●	●		
29	●	●	●				
30	●	●	●		●		
31	●	●	●	●			
32	●	●	●	●	●		

NOTICE:
Only set the Modbus® Adress in the OFF state.

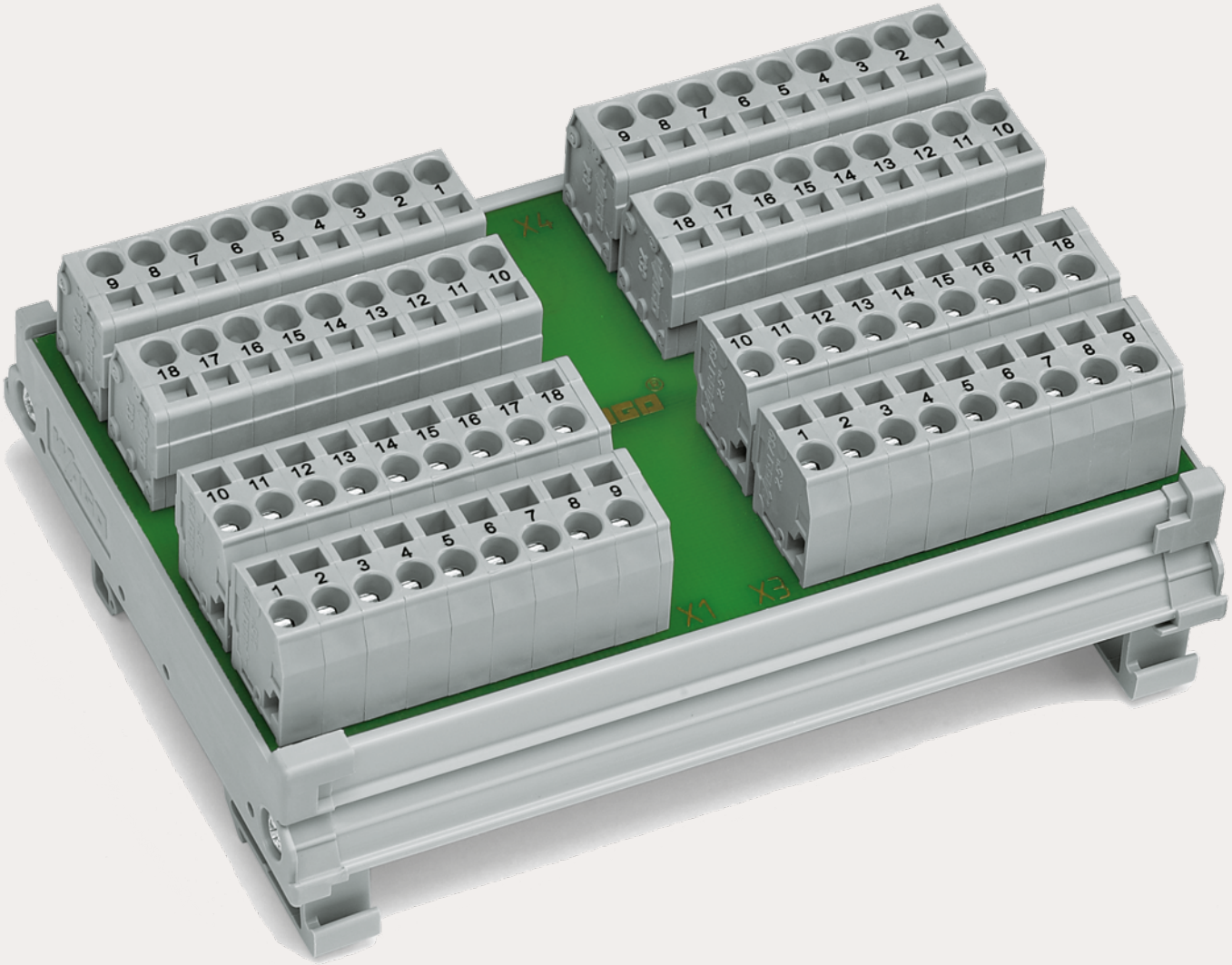
Selection Guide: Current Transformers
The Right Solution for Every Application

Current Transformers 855 Series	Split-Core Current Transformers	Plug-In Current Transformers with CAGE CLAMP® Connection Technology
		
Application	Retrofit	New systems
Coil bobbin	Separable	Closed
Connection technology	Connection cable (color coded)	CAGE CLAMP®
Mounting	Round cable (insulated), copper current bar (insulated	Round cable, copper current bar, DIN-rail, mounting plate
Compatibility with other WAGO components	750-493, (750-493/000-001) 750-494, (750-494/000-001) 750-495, (750-495/000-001) 857-550, 2857-570/024-001 2857-570/024-005	
Primary rated current	60 … 1000 A	50 … 2500 A
Secondary rated current	1 A / 5 A	1 A / 5 A
Accuracy class	0.5; 1 or 3	1 or 3
Surrounding air temperature	–10 … +55 °C	–5 … +50 °C
Standards	EN 61869-2	EN 61869-2
Approvals	–	c UL us
Connection examples		

* In the measurement range between 0.8 and 32 A and in combination with WAGO's 3-Phase Power Measurement Modules, accuracy class 0.5 per EN 61869-2 is achieved.

7

Plug-In Current Transformers with *picoMAX*® Pluggable Connectors		Rogowski Coils RC 70 / RC 125 / RC 175	Current and Voltage Taps
			
New systems		Retrofit	New systems
Closed		Bayonet connector, separable	Closed
picoMAX®		Connectiono cable	Push-in CAGE CLAMP®
Round cable, copper current bar, mounting plate		Round cable, copper current bar	Jumper slot of the 285 series 2-Conductor Th-rough Teremin Blocks 285-150, 285-195, 285-1185, 285-141, 285-181, 285-1161
750-493,750-494 750-495, 857-550, 2857-570/024-001		750-495/000-002 857-552 2857-570/024-000	750-493 750-494 750-495 857-550 2857-570/024-001
32 A	35 / 64 A	Up to 4000 A	150 … 350 A
320 mA	1 A	22.5 mV/kA	1 A
0.5*	1	0.5	0.5
–10 … +55 °C		–40 … +80 °C	–25 … +70 °C
EN 61869-2		IEC 61010-1 / EN 61869-2	EN 61869-2, EN 60947-7-3, IEC 60068-2-6
–		UL listed	–
			



WAGO Potential Distribution

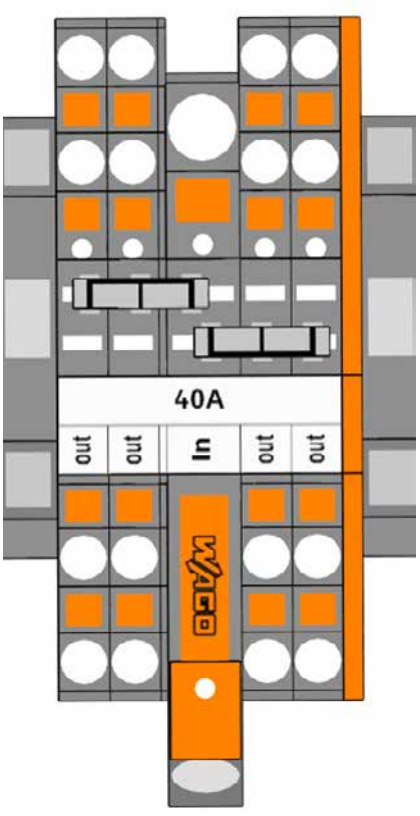
WAGO Potential Distribution

8

WAGO Potential Distribution Blocks

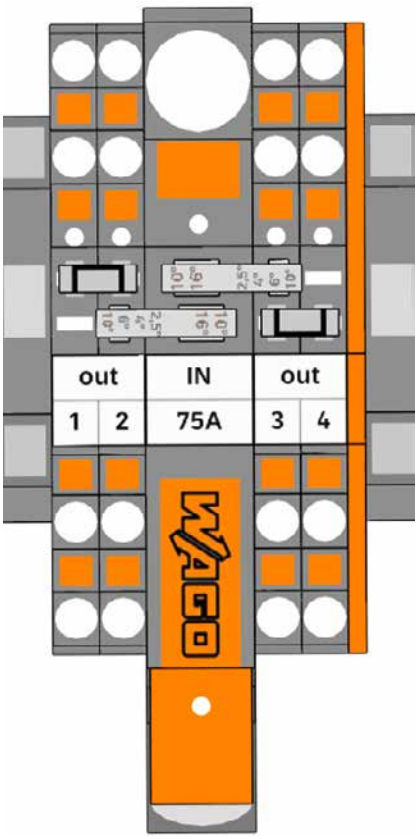
Potential distribution can be seamlessly implemented using WAGO's TOPJOB® S Rail-Mount Terminal Blocks with mixed conductor cross-sections. If required, jumpers can be used to easily provide additional connection points. Some standard setups are shown below. For more information on rail-mount terminal block operation and other accessories, visit www.wago.com.

Potential Distribution Blocks; 40 A



Part list:		
1x	2-conductor through terminal block; with lever and push-button; 6 mm²; with test port; side and center marking; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®	2106-5201
4x	4-conductor through terminal block; with push-button; 2.5 mm²; with test port; side and center marking; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®	2202-1401
2x	End and intermediate plate; 0.8 mm thick	2002-1491/2
2x	Push-in type jumper bar; insulated; 3-way; Nominal current 25 A	2002-403

Potential Distribution Blocks; 75 A

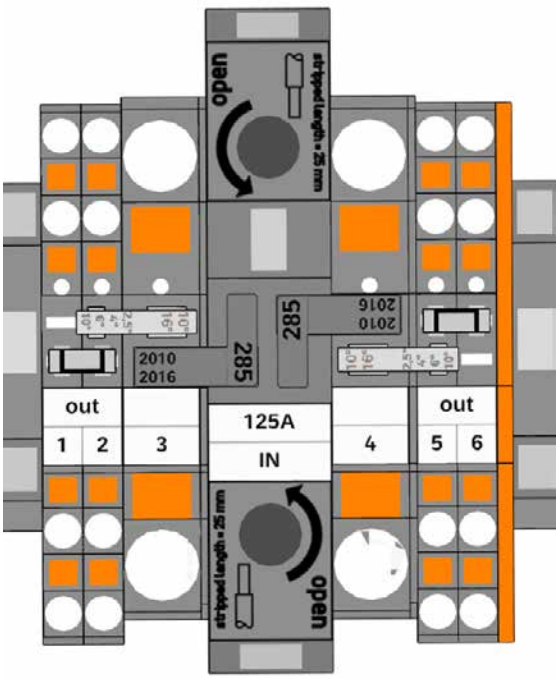


Part list:		
1x	2-conductor through terminal block; with lever and push-button; 16 mm²; with test port; side and center marking; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®	2116-5201
4x	4-conductor through terminal block; with push-button; 2.5 mm²; with test port; side and center marking; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®	2202-1401
1x	End and intermediate plate; 0.8 mm thick	2002-1492
2x	Step-down jumper; insulated; from 16/10 mm² to 10/6/4/2.5 mm²; Nominal current 57 A	2016-499
2x	Push-in type jumper bar; insulated; 3-way; Nominal current 25 A	2002-403

WAGO Potential Distribution Blocks

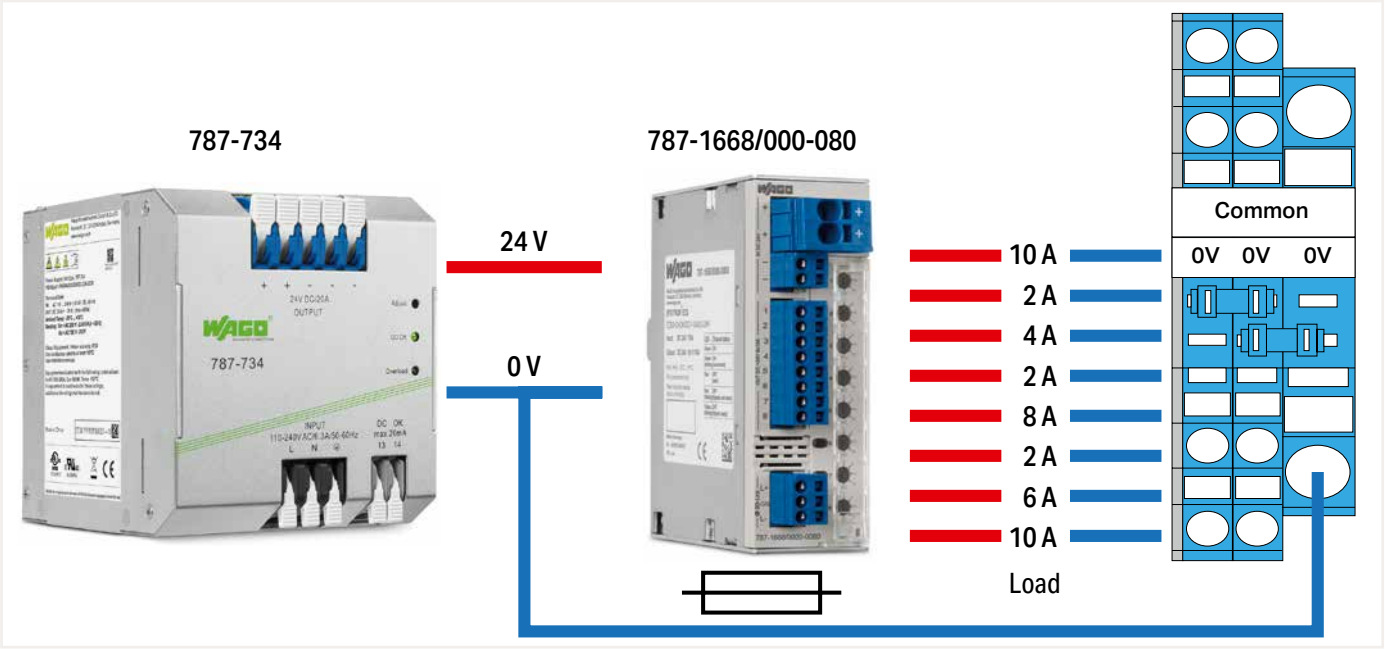
The setups and individual compilations below, e.g., with power supply and ECB can be easily created and documented via WAGO's Smart Designer Configuration Software (available at www.wago.com), and then ordered as a custom rail assembly.

Potential Distribution Blocks; 125 A

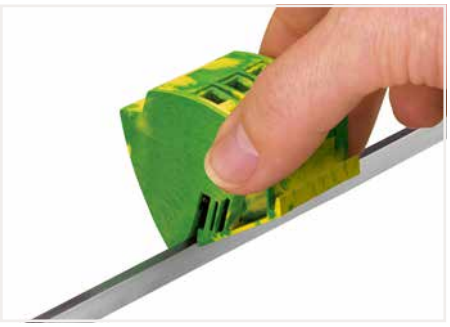


Part list:		
1x	2-conductor through terminal block; 35 mm²; lateral marker slots; only for DIN 35 x 15 rail; 2.3 mm thick; copper; POWER CAGE CLAMP	285-135
2x	2-conductor through terminal block; with push-button; 10 mm²; with test port; side and center marking; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®	2210-1201
4x	4-conductor through terminal block; with push-button; 2.5 mm²; with test port; side and center marking; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®	2202-1401
2x	End and intermediate plate; 1 mm thick	2020-1291
1x	End and intermediate plate; 1 mm thick	2020-1492
2x	Step-down jumper; insulated; from 285-13x to 2010 and 2016 Series TOPJOB® S terminal blocks; Nominal current 90 A	285-430
2x	Step-down jumper; insulated; from 16/10 mm² to 10/6/4/2.5 mm²; Nominal current 57 A	2016-499
2x	Push-in type jumper bar; insulated; 3-way; Nominal current 25 A	2002-403

Application example



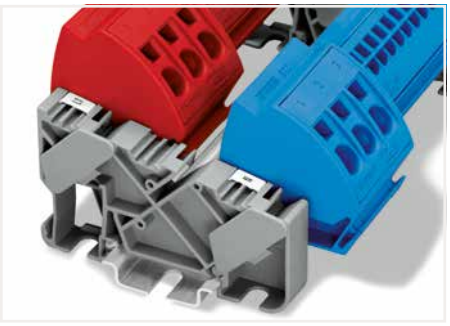
Busbar Terminal Blocks
812 Series
Description and Installation



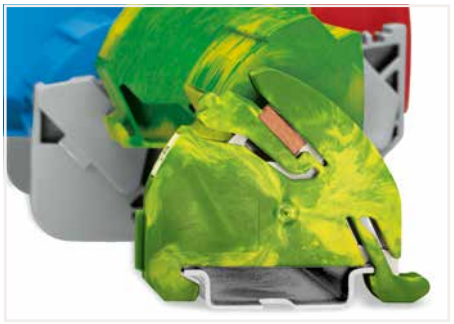
Snapping a ground busbar terminal block onto the N-busbar.

Unlock right and left positions to remove the ground busbar terminal block. Then pull up the block from the busbar.

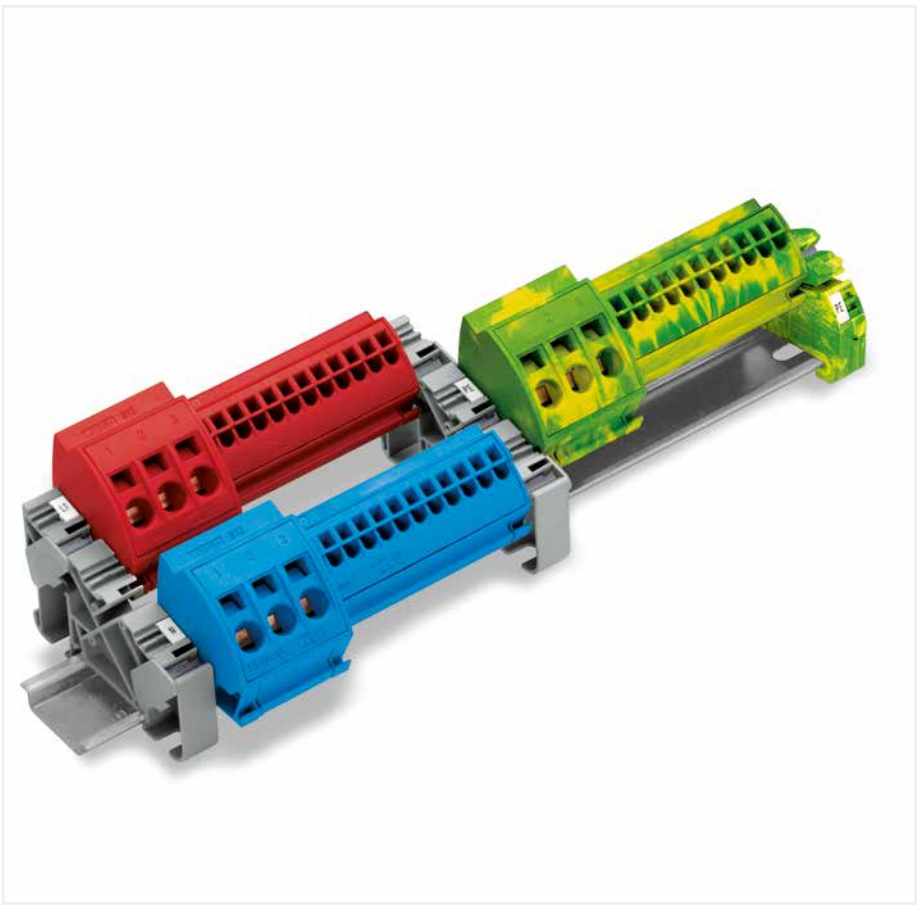
Using the 812 Series Busbar Terminal Blocks in switchgear cabinets and distribution boards permits simple and safe potential distribution on standard (10 x 3) mm busbars. Tool-free snapping of self-locking busbar terminal blocks onto the busbar enables quick and easy assembly, as well as subsequent extension. The busbar terminal blocks are available in two different versions for conductors ranging from 1.5 to 16 mm² (16–6 AWG).
Current carrying capacity: With a maximum total current of 96 A, the clamping units of the busbar terminal block can be loaded with the rated current of the conductor cross sections approved. This only applies when (10 x 3) mm busbars are used.



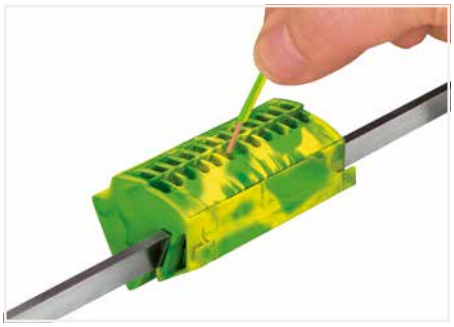
Busbar carrier (812-140):
Offers three receptacles for (10 x 3) mm busbars with locking device for easy mounting of the busbars. The carrier can be snapped onto the DIN-35 rail or screwed on a panel.



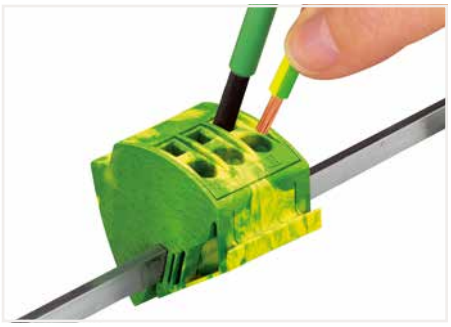
Ground busbar carrier (812-141):
Offers a receptacle with locking device for (10 x 3) mm busbar. Contact between the busbar and rail is made automatically by simply snapping the carrier onto the DIN-35 rail. One end of the busbar is mounted onto the ground busbar carrier, the other end is inserted into the middle position of the insulated busbar carrier.



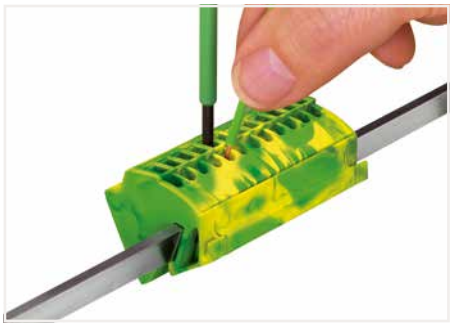
Mixed 4 mm² (12 AWG) and 16 mm² (6 AWG) busbar terminal blocks



Conductor termination (4 mm²/12 AWG):
With Push-in CAGE CLAMP®, solid conductors can be terminated by simply pushing them into the 12 x 4 mm² busbar terminal block, significantly reducing wiring time.



Conductor termination (16 mm²/6 AWG):
Open the clamping unit with an operating tool when terminating solid, stranded and fine-stranded conductors.



Conductor removal (4 mm²/12 AWG and 16 mm²/6 AWG):
Open the clamping unit using an operating tool.

Busbar Terminal Block
4 mm² and 16 mm²; 812 Series

Technical Data	
0.5 … 4 mm²	20 … 12 AWG
1000 V/6 kV/3	600 V, 20 A
I_N 96 A	600 V, 95 A
Terminal block width: 75 mm / 2.953 inch	
11 mm / 0.43 inch	

Busbar terminal block 4 mm²; with Push-in CAGE CLAMP® connection

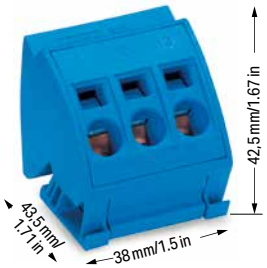
Color	Item No.	Pack. Unit
blue	812-104	10
light gray	812-101	10
dark gray	812-102	10
red	812-103	10

Accessories; item-specific

Busbar; tin-plated; 1000 mm long; Copper (10 x 3) mm

I_N 140 A 210-133 1

Technical Data	
1.5 … 16 mm²	14 … 6 AWG
1000 V/6 kV/3	600 V, 20 A
I_N 96 A	600 V, 95 A
Terminal block width: 38 mm / 1.496 inch	
12 mm / 0.47 inch	



Busbar terminal block 16 mm²; with CAGE CLAMP® connection

Color	Item No.	Pack. Unit
blue	812-114	12
light gray	812-111	12
dark gray	812-112	12
red	812-113	12

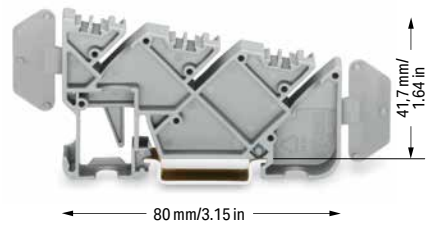
Accessories; item-specific

Busbar; tin-plated; 1000 mm long; Copper (10 x 3) mm

I_N 140 A 210-133 1

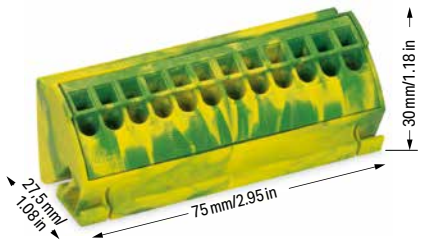
Finger guard; touch-proof cover protects unused conductor entries

yellow 284-400 100 (25)



Insulated busbar carrier; 12 mm wide

Color	Item No.	Pack. Unit
gray	812-140	25



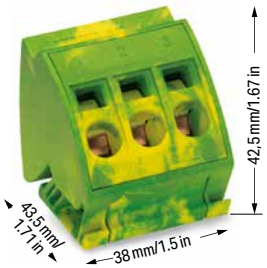
Ground busbar terminal block 4 mm²; with Push-in CAGE CLAMP® connection

Color	Item No.	Pack. Unit
green-yellow	812-100	10

Accessories; item-specific

Busbar; tin-plated; 1000 mm long; Copper (10 x 3) mm

I_N 140 A 210-133 1



Ground busbar terminal block 16 mm²; with CAGE CLAMP® connection

Color	Item No.	Pack. Unit
green-yellow	812-110	12

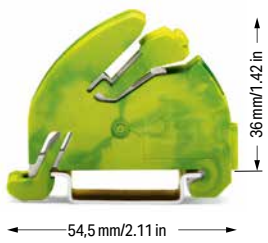
Accessories; item-specific

Busbar; tin-plated; 1000 mm long; Copper (10 x 3) mm

I_N 140 A 210-133 1

Finger guard; touch-proof cover protects unused conductor entries

yellow 284-400 100 (25)

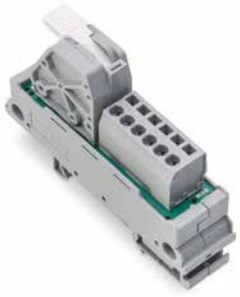


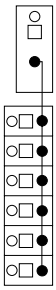
Ground busbar carrier; with DIN-35 rail contact; 11 mm wide

Color	Item No.	Pack. Unit
green-yellow	812-141	25

8

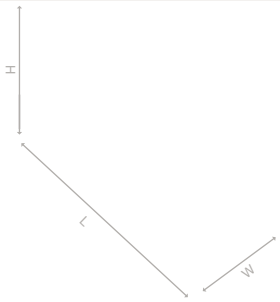
Potential Distribution Module
830 Series





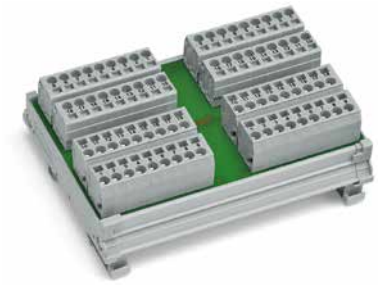
Potential Distribution Module; 1 potential; with 1 input clamping point; Conductor cross section up to 16 mm²/6 AWG; Lever; with 6 output clamping points; Conductor cross section up to 2.5 mm²/12 AWG

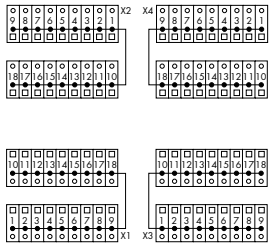
Color	Item No.	Pack. Unit
gray	830-800/000-312	10
blue	830-800/000-312/ 000-006	10



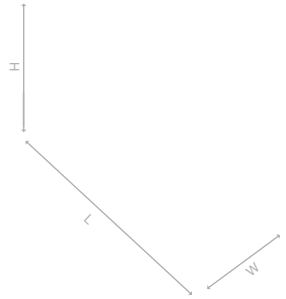
General Specifications	
Operating voltage	≤ 250 VAC/DC
Total current per potential (max.)	65 A
Current per connection (max.)	12 A
Connection Data	
Total number of potentials	1
Connection type 1	Input
Connection technology 1	CAGE CLAMP®
Solid conductor 1	1.5 … 16 mm² / 16 … 6 AWG
Fine-stranded conductor 1	1.5 … 16 mm² / 16 … 6 AWG
Strip length 1	12 … 13 mm / 0.47 … 0.51 inch
Connection type 2	Output
Connection technology 2	CAGE CLAMP®
Solid conductor 2	0.08 … 2.5 mm² / 28 … 12 AWG
Fine-stranded conductor 2	0.08 … 2.5 mm² / 28 … 12 AWG
Strip length 2	8 … 9 mm / 0.31 … 0.35 inch
Physical Data	
Width	21 mm / 0.81 inch
Height from upper-edge of DIN-rail	49 mm / 1.98 inch
Depth	85 mm / 3.35 inch
Mechanical Data	
Mounting type	DIN-35 rail
Material Data	
Weight	57.8 g
Environmental Requirements	
Surrounding air temperature (operation)	–20 … +50 °C
Relative humidity	95 % (no condensation permissible)
Standards and Specifications	
Standards/specifications	cULus 61010-2-201

Potential Distribution Module
288 Series



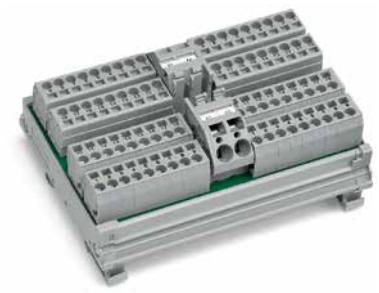


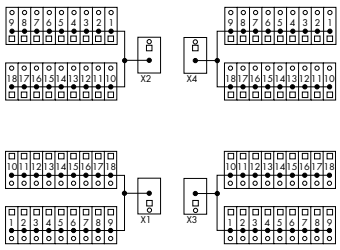
Potential Distribution Module; 4 potentials; each with 18 connection points		
	Item No.	Pack. Unit
	288-825	1



General Specifications	
Operating voltage	≤ 250 VAC/DC
Total current per potential (max.)	12 A
Current per connection (max.)	12 A
Safety and Protection	
Pollution degree	2
Rated voltage	250 V
Rated surge voltage	4 kV
Connection Data	
Total number of potentials	4
Connection technology	CAGE CLAMP®
Solid conductor	0.08 … 2.5 mm² / 28 … 12 AWG
Fine-stranded conductor	0.08 … 2.5 mm² / 28 … 12 AWG
Strip Length	8 … 9 mm / 0.31 … 0.35 inch
Physical Data	
Width	115 mm / 4.528 inch
Height from upper-edge of DIN-rail	45 mm / 1.772 inch
Depth	85 mm / 3.346 inch
Mechanical Data	
Mounting type	DIN-35 rail
Material Data	
Weight	156.6 g
Environmental Requirements	
Surrounding air temperature (operation)	−20 … +50 °C
Surrounding air temperature (storage)	−40 … +80 °C

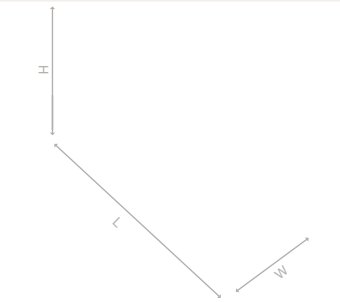
Potential Distribution Module
288 Series





Potential Distribution Module; 4 potentials; each with 19 connection points

	Item No.	Pack. Unit
	288-837	1



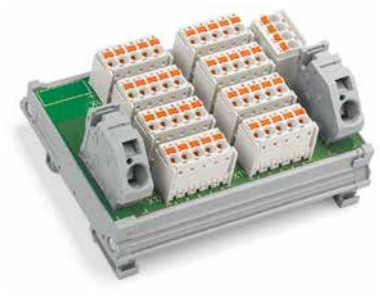
General Specifications	
Operating voltage	≤ 250 VAC/DC
Total current per potential (max.)	32 A
Current per connection (max.)	12 A
Safety and Protection	
Pollution degree	2
Rated voltage	250 V
Rated surge voltage	4 kV
Connection Data	
Total number of potentials	4
Connection type 1	Power supply
Connection technology 1	CAGE CLAMP®
Solid conductor 1	0.2 … 6 mm² / 24 … 10 AWG
Fine-stranded conductor 1	0.2 … 6 mm² / 24 … 10 AWG
Strip length 1	11 … 12 mm / 0.43 … 0.47 inch
Connection type 2	Connection points
Connection technology 2	CAGE CLAMP®
Solid conductor 2	0.08 … 2.5 mm² / 28 … 12 AWG
Fine-stranded conductor 2	0.08 … 2.5 mm² / 28 … 12 AWG
Strip length 2	8 … 9 mm / 0.31 … 0.35 inch
Physical Data	
Width	115 mm / 4.528 inch
Height from upper-edge of DIN-rail	45 mm / 1.772 inch
Depth	85 mm / 3.346 inch
Mechanical Data	
Mounting type	DIN-35 rail
Material Data	
Weight	178.2 g
Environmental Requirements	
Surrounding air temperature (operation)	–20 … +50 °C
Surrounding air temperature (storage)	–40 … +80 °C

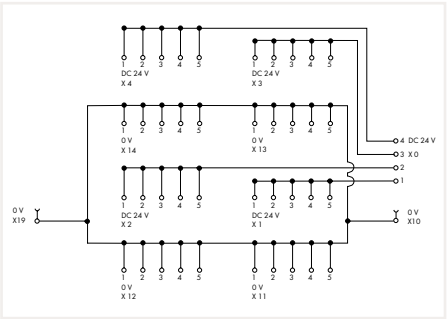
Accessories

Comb-style jumper bar; 2-way

Item No.	Pack. Unit
745-382	250 (50)

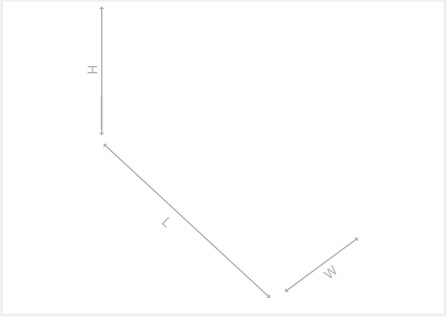
Potential Distribution Module
288 Series





Potential Distribution Module; 4 potentials; each with 6 connection points; with 22 ground connection points

Item No.	Pack. Unit
288-870/000-030	1



General Specifications	
Nominal operating voltage	24 VDC
Total current 0 V (max.)	40 A
Total current per potential (max.)	10 A
Current per connection (max.)	10 A
Connection Data	
Total number of potentials	4
Connection type 1	Power supply 0 V
Mating direction 1	45°
Connection technology 1	CAGE CLAMP®
Solid conductor 1	0.2 … 16 mm² / 24 … 6 AWG
Fine-stranded conductor 1	0.2 … 16 mm² / 24 … 6 AWG
Strip length 1	12 … 13 mm / 0.47 … 0.51 inch
Connection type 2	Power supply 24 V; connection points
Mating direction 2	Vertical
Connection technology 2	Push-in CAGE CLAMP®
Solid conductor 2	0.2 … 2.5 mm² / 24 … 12 AWG
Fine-stranded conductor 2	0.2 … 2.5 mm² / 24 … 12 AWG
Strip length 2	9 … 10 mm / 0.35 … 0.39 inch
Physical Data	
Width	100 mm / 3.937 inch
Height from upper-edge of DIN-rail	49 mm / 1.929 inch
Depth	85 mm / 3.346 inch
Mechanical Data	
Mounting type	DIN-35 rail
Material Data	
Weight	140.4 g
Environmental Requirements	
Surrounding air temperature (operation)	–25 … +70 °C (no condensation)
Surrounding air temperature (storage)	–40 … +85 °C

Features:
- May be used with electronic circuit breakers for 24 and 0 VDC power distribution, as a substitute for rail-mount terminal blocks
- Pre-wiring and electrical isolation of current paths via pluggable *picoMAX*® Female Headers
- Optional coding pins (2092-1610) protect against any inadvertent mixing of female headers
- Optional gripping plates with sliding connector release (2092-1601/002-000 or 2092-1602/002-000) provide conductor strain relief
- 0 V may be supplied to the adjancent modules via comb-style jumper bar (745-682)

Accessories

Comb-style jumper bar; 2-way

Item No.	Pack. Unit
745-682	400 (50)

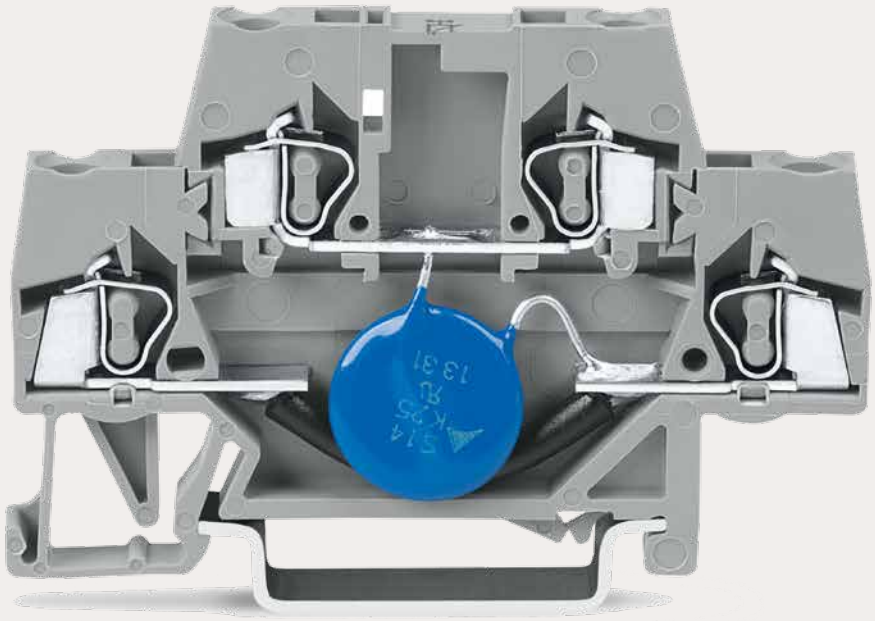
Coding pin carrier

Item No.	Pack. Unit
2092-1610	100 (25)

Gripping plate with sliding connector release

Description	Item No.	Pack. Unit
3- to 4-pole	2092-1601/002-000	100 (25)
5- to 8-pole	2092-1602/002-000	100 (25)

8



WAGO Overvoltage Protection

WAGO Overvoltage Protection

9

Overvoltage Protection

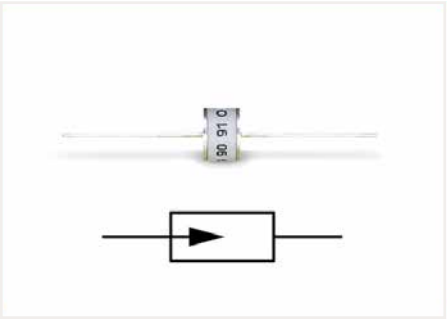
Overvoltage protection for increased safety and longer on-line operation

On-the-line overvoltages cause most operating failures for measuring, control, data and power lines. Failure of electronic and semiconductor components due to surges can cause operating interruptions. The overvoltage (also called transients) can be generated by switching electrical equipment on or off or by lighting discharges. Depending on the application, protective measures for systems and devices can be broken down into:

- Coarse protection
- Medium protection
- Fine protection

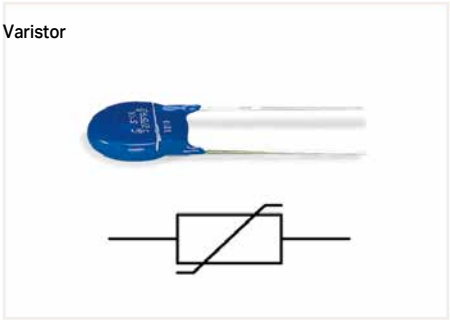
The boundaries between these levels of protection may not be sharply defined. To implement the appropriate protection measures, various components are used for discharging transient overvoltage, depending on the protection type. The following components have proven performance in these applications:

Gas-filled surge arrester



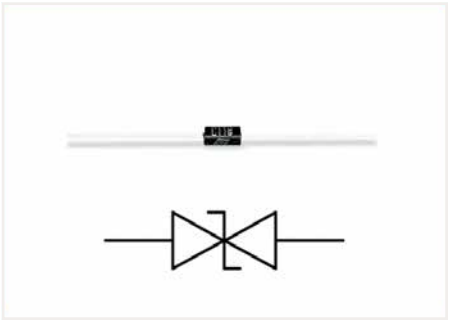
The gas filled surge arrester is comprised of two electrodes in a ceramic or glass tube filled with a pressurized inert gas.
Once the ignition voltage is reached, resistance drops due to ionization and current begins to flow. The resistance of the device drops from high to low as it conducts. The voltage across the device after the arc is struck is typically 10 ... 30 V. Therefore, the current will continue to flow until the voltage drops below this level. As this is not a guaranteed occurrence in typical power situations, a fuse must precede the device to ensure disconnection from the supply. This is always the case if the nominal voltage of the protected network is greater than 12 VDC and the nominal voltage of the power supply and the protected circuit is greater than 100 mA.

Varistor



A varistor is a voltage-dependent resistor, in which the resistance becomes low after their "nominal voltage" is exceeded and for the voltage range above it, and can thus cut off any overvoltages through high discharge currents. Varistors can age with continued surge conduction, resulting in lower impedance even in the lower voltage range. However, this normally only occurs when a varistor frequently discharges transients. In this case, they must be replaced and specific time intervals.

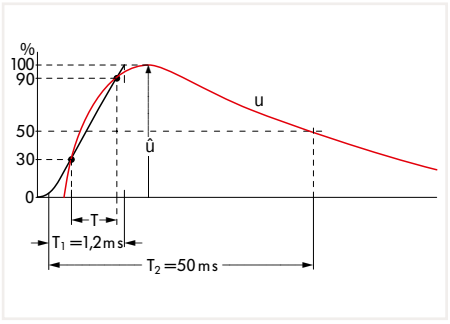
Suppressor Diode



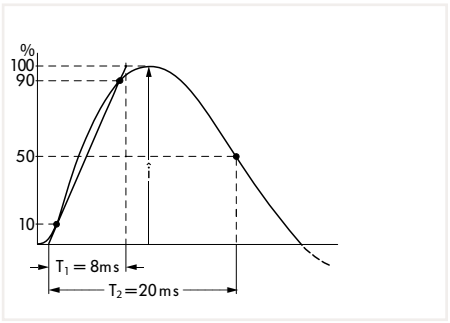
Suppressor diodes have electrical characteristics similar to Zener diodes, but are rated for surge currents.
Once the rated breakdown voltage is exceeded (in the non-conductive direction), the diode becomes a conductor. The suppressor diode differs from a Zener in its higher current carrying capability and faster response time (in the picosecond range).

Test Impulse

Surge arresters are subject to standardized test pulses in order to classify capabilities; the effectiveness of protection measures with reference to dissipation capacity and voltage arresting. The form and level of the test pulses are defined by IEC 60060-1 and EN 62475:2010. Preference is given to voltage pulses of 1.2/50 and current pulses of 8/20.



Voltage pulses 1.2/50 per IEC 60060-1



Current pulses 8/20 per EN 62475:2010

Application Recommendations

The advantages of gas-filled surge arresters lie in their high current carrying capacity, making them ideal for coarse protection. One disadvantage, particularly in the medium protection range, is the relatively long response time, as well as the power follow current.
Varistors have a considerably shorter response time; however they also have lower leakage currents. This makes them more suitable for medium protection as they offer limited applications for coarse protection.
If the connection lines of electronic equipment are already "fine" protected, general coarse and medium protection measures are sufficient. If this is not the case, suppressor diodes with a very short response time may be employed as fine protection. WAGO offers a complete range of modular terminal blocks with integrated surge arresters for coarse, medium and fine protection.
Depending on the application, one can choose the appropriate type from the previously mentioned surge arresters. These are electrically connected in the modular terminal blocks between the connection point and mounting rail. Snapping the terminal block onto the grounded (earthed) mounting rail automatically ensures the required overvoltage protection.

Double-deck terminal block, with varistor direct connection to DIN-35 rail

Frequently, only one surge arrester is fitted for cost reasons. However, due to the fact that one surge arrester alone cannot optimally ensure several protection functions, combinations are recommended. Care must be taken to ensure that the single-stage protection devices are decoupled sufficiently by inductors or resistors.

Overvoltage Protection

Interference suppression modules are a special category here.
In addition to overvoltage protection, a high frequency interference filter can be added to the circuitry. This filter cannot only protect the equipment from high frequency energy transmitted by connecting wires, but also prevents a transmission of disturbances to the supply lines. The main component of a filter is an LC network, which produces a mismatch between the filter impedance and the impedance of the disturbance path. This reflects any disturbance back to its source.

Definition of Several Important Technical Terms

Nominal Operating Voltage (U_{BN})

The nominal operating voltage corresponds to the voltage which may be permanently connected to the appropriate connection terminals of the overvoltage protection module. Alternating voltages are quoted as effective values.

Max. Operating Voltage (U_{Bmax})

The maximum operating voltage corresponds to the voltage which may be permanently connected to the appropriate connection terminals without the operating properties changing or activating the individual module's protection elements.

Nominal Current (I_N)

The nominal current corresponds to the current which may permanently flow through the connection terminals of the overvoltage protection device.

Nominal Discharge Current (I_{SN})

The nominal discharge current is the maximum value of a current having the 8/20 µs waveform, which can flow through the surge arrester five times within a time period of 30 seconds (VDE) without destroying it.

Max. Surge Current (I_{Smax})

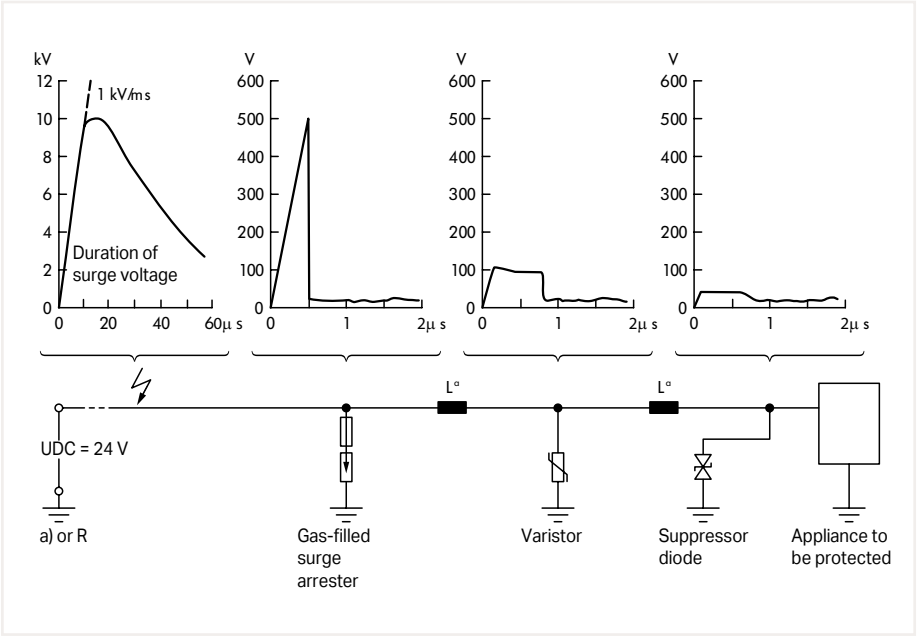
The maximum surge current ISmax defines the maximum value of a current having the 8/20 µs waveform, which can flow through the surge arrester once without destroying it.

Protection Level (U_P)

The protection level is the value of the residual voltage occurring on the "protected" side of the surge arrester when applying the rated discharge current.

Response Time (t_{resp})

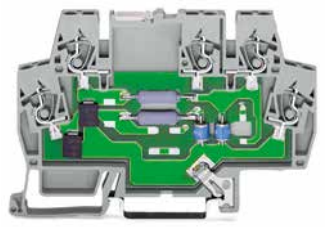
The response time is primarily based on the physical properties of the surge arresters and is dependent upon the wave front duration of the surge voltage. WAGO's data refers to a voltage rise 1kV/µs.

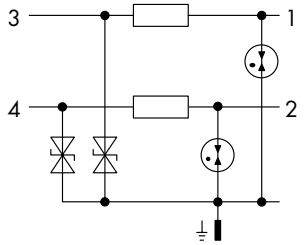


Function diagram of a multi-stage surge voltage protection module

9

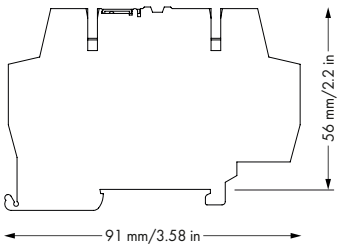
Rail-Mount Terminal Block; with Overvoltage Protection; for DIN-35 Rail
792 Series





Surge Protection Module for Signal Technology; Nominal voltage: 24 VDC; for 2 signal paths with common surge arrester; for asymmetric interfaces; 2-stage; 6 mm wide

Nominal Voltage	Item No.	Pack. Unit
24 VDC	792-800	1



Electrical Data	
Nominal operating voltage	24 VDC
Maximum continuous operating voltage	23 VAC / 33 VDC
Nominal current	0.5 A
Nominal discharge current I_{SN} (8/20 µs), line	5 kA
Nominal discharge current I_{SN} (8/20 µs), total	10 kA
Voltage protection level, line/line (cat. C2 at I_N)	≤ 110 V
Voltage protection level, line/PG (cat. C2 at I_N)	≤ 65 V
Voltage protection level, line/line (cat. C3 at I_N)	≤ 90 V
Voltage protection level, line/PG (cat. C3 at I_N)	≤ 45 V
Response time	≤ 1 ns
Limit frequency (line/line)	6 MHz
Limit frequency (line/protected gorund)	6 MHz
Impedance	1.8 Ω
Capacitance (line/line)	≤ 0.5 nF
Capacitance (line/PG)	≤ 1 nF
Safety and Protection	
Protection class	IP00
Protection class with end and intermediate plate	IP20
Connection Data	
Connection points (number)	5
Connection technology	CAGE CLAMP®
Solid conductor	0.08 … 2.5 mm² / 28 … 14 AWG
Fine-stranded conductor	0.08 … 2.5 mm² / 28 … 14 AWG
Strip length	5 … 6 mm / 0.2 … 0.24 inch
Physical Data	
Width	6 mm / 0.236 inch
Height from upper-edge of DIN-rail	56 mm / 2.205 inch
Depth	91 mm / 3.583 inch
Mechanical Data	
Mounting type	DIN-35 rail
Material Data	
Weight	38.8 g
Environmental Requirements	
Surrounding air temperature (operation)	–40 … +80 °C
Surrounding air temperature (storage)	–40 … +80 °C
Standards and Specifications	
Standards/specifications	IEC 61643-21

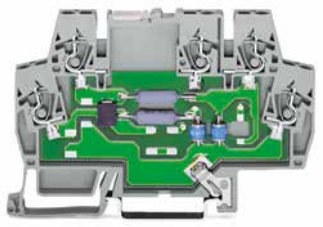
9

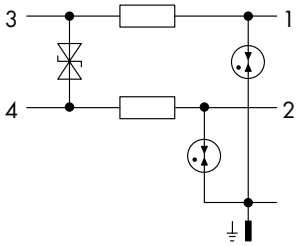
Short description:
Surge protection devices for IT systems and devices in the voltage range up to 60 V (except custom solutions, e.g., telephone systems with ringing voltage)

Overvoltage protection is also possible for DIN-35 rail-mount terminal blocks. Multi-stage surge arresters in rail-mount terminal blocks (792-80x Series) of just 6 mm width ensure cost-effective protection for control and bus technology (e.g., LON® network, PROFIBUS network, binary signals).

Features:
- Protect your system against overvoltage
- Slim, space-saving design
- Control operational costs by preventing expensive, unplanned downtime
- High operational reliability and system uptime

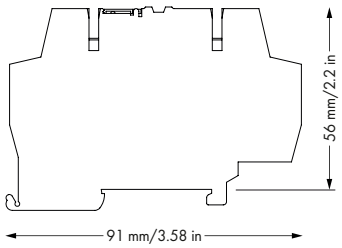
Rail-Mount Terminal Block; with Overvoltage Protection; for DIN-35 Rail
792 Series





Surge Protection Module for Signal Technology; Nominal voltage: 24 VDC; for 2 signal paths with common surge arrester; for symmetric interfaces; 2-stage; 6 mm wide

Nominal Voltage	Item No.	Pack. Unit
24 VDC	792-801	1



Short description:
Surge protection devices for IT systems and devices in the voltage range up to 60 V (except custom solutions, e.g., telephone systems with ringing voltage)

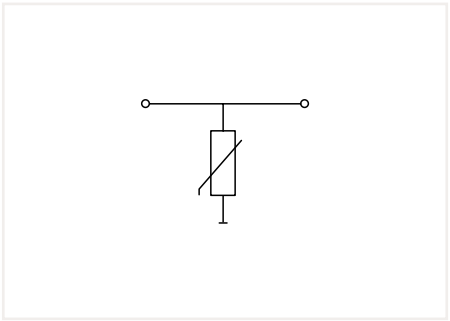
Overvoltage protection is also possible for DIN-35 rail-mount terminal blocks. Multi-stage surge arresters in rail-mount terminal blocks (792-80x Series) of just 6 mm width ensure cost-effective protection for control and bus technology (e.g., LON® network, PROFIBUS network, binary signals).

Features:
- Protect your system against overvoltage
- Slim, space-saving design
- Control operational costs by preventing expensive, unplanned downtime
- High operational reliability and system uptime

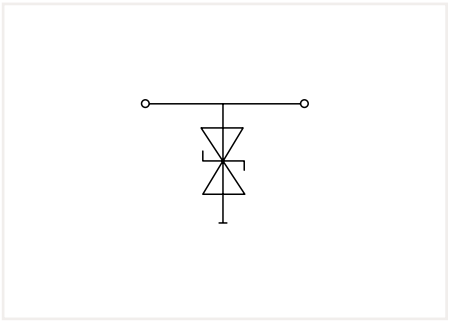
Electrical Data	
Nominal operating voltage	24 VDC
Maximum continuous operating voltage	23 VAC / 33 VDC
Nominal current	0.5 A
Nominal discharge current I_{SN} (8/20 µs), line	5 kA
Nominal discharge current I_{SN} (8/20 µs), total	10 kA
Voltage protection level, line/line (cat. C2 at I_N)	≤ 50 V
Voltage protection level, line/PG (cat. C2 at I_N)	≤ 750 V
Voltage protection level, line/line (cat. C3 at I_N)	≤ 45 V
Voltage protection level, line/PG (cat. C3 at I_N)	≤ 650 V
Response time	≤ 100 ns
Limit frequency	6 MHz
Limit frequency (line/protected gorund)	6 MHz
Impedance	1.8 Ω
Capacitance (line/line)	≤ 10 nF
Capacitance (line/PG)	≤ 5 nF
Safety and Protection	
Protection class	IP00
Protection class with end and intermediate plate	IP20
Connection Data	
Connection points (number)	5
Connection technology	CAGE CLAMP®
Solid conductor	0.08 … 2.5 mm² / 28 … 14 AWG
Fine-stranded conductor	0.08 … 2.5 mm² / 28 … 14 AWG
Strip length	5 … 6 mm / 0.2 … 0.24 inch
Physical Data	
Width	6 mm / 0.236 inch
Height from upper-edge of DIN-rail	56 mm / 2.205 inch
Depth	91 mm / 3.583 inch
Mechanical Data	
Mounting type	DIN-35 rail
Material Data	
Weight	38.7 g
Environmental Requirements	
Surrounding air temperature (operation)	–40 … +80 °C
Surrounding air temperature (storage)	–40 … +80 °C
Standards and Specifications	
Standards/specifications	IEC 61643-21

Component Terminal Block; with Surge Arrester; for DIN-35 Rail
280 Series

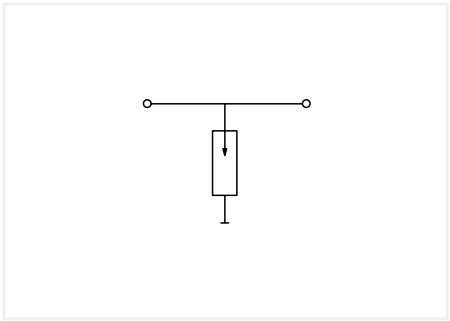
Image	Description	Nominal operating voltage	Item No.	Pack. Unit
	Component terminal block; double-deck; with varistor; with direct connection to DIN-35 rail	DC 24 V	280-502/281-609	50
		DC 48 V	280-502/281-610	50
		DC 60 V	280-502/281-611	50
		DC 110 V	280-502/281-612	50
		AC 24 V	280-502/281-613	50
		AC 115 V	280-502/281-614	50
	Component terminal block; double-deck; with direct connection to DIN-35 rail			
	with P6KE36C TVS diode	DC 24 V	280-502/281-602	50
	with P6KE68C TVS diode	DC 48 V	280-502/281-603	50
	with P6KE91C TVS diode	DC 60 V	280-502/281-604	50
	with BZW06-B TVS diode	DC 110 V	280-502/281-605	50
	with BZW06-40B TVS diode	AC 24 V	280-502/281-606	50
	with BZW06-B TVS diode	AC 115 V	280-502/281-607	50
	with BZW06-B TVS diode	AC 230 V	280-502/281-608	50
	Component terminal block; double-deck; with varistor; with end plate; with direct connection to DIN-35 rail	DC 24 V	280-502/281-582	25
		DC 48 V	280-502/281-583	25
		DC 60 V	280-502/281-584	25
		DC 110 V	280-502/281-585	25
		AC 24 V	280-502/281-586	25
		AC 115 V	280-502/281-587	25
		AC 230 V	280-502/281-588	25
	Component terminal block; double-deck; with end plate; with direct connection to DIN-35 rail			
	with 1.5KE33C TVS diode	DC 24 V	280-502/281-589	25
	with 1.5KE62C TVS diode	DC 48 V	280-502/281-590	25
	with 1.5KE82C TVS diode	DC 60 V	280-502/281-591	25
	with 1.5KE150C TVS diode	DC 110 V	280-502/281-592	25
	with 1.5KE39CA TVS diode	AC 24 V	280-502/281-593	25
	with 1.5KE-C TVS diode	AC 115 V	280-502/281-594	25
	with 1.5KE-C TVS diode	AC 230 V	280-502/281-595	25
	Component terminal block; double-deck; with Gas-Filled Surge Arrester; with end plate; with direct connection to DIN-35 rail	AC/DC 24 V	280-503/281-579	25
		AC/DC 115 V	280-503/281-580	25
		AC/DC 230 V	280-503/281-581	25



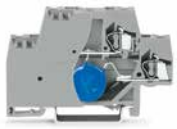
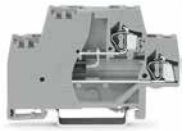
Component Terminal Block with Varistor

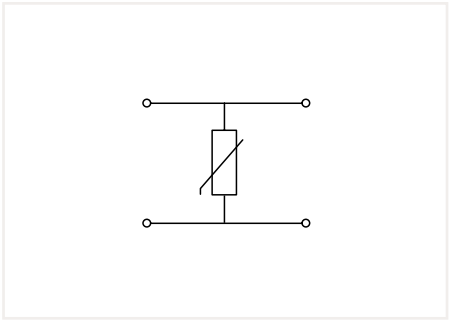


Component Terminal Block with TVS Diode

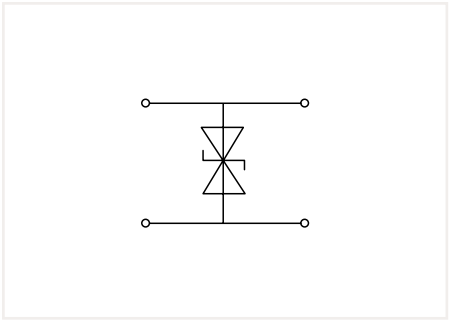


Component Terminal Block with Gas-Filled Surge Arrester

Image	Description	Nominal operating voltage	Item No.	Pack. Unit
	Component terminal block; double-deck; with varistor; with end plate	DC 24 V	280-504/281-582	25
		DC 48 V	280-504/281-583	25
		DC 60 V	280-504/281-584	25
		DC 110 V	280-504/281-585	25
		AC 24 V	280-504/281-586	25
		AC 115 V	280-504/281-587	25
		AC 230 V	280-504/281-588	25
	Component terminal block; double-deck; with end plate			
	with 1.5KE33C TVS diode	DC 24 V	280-944/281-589	25
	with 1.5KE62C TVS diode	DC 48 V	280-944/281-590	25
	with 1.5KE82C TVS diode	DC 60 V	280-944/281-591	25
	with 1.5KE150C TVS diode	DC 110 V	280-944/281-592	25
	with 1.5KE39CA TVS diode	AC 24 V	280-944/281-593	25
	with 1.5KE-C TVS diode	AC 115 V	280-944/281-594	25
	with 1.5KE-C TVS diode	AC 230 V	280-944/281-595	25



Component Terminal Block with Varistor

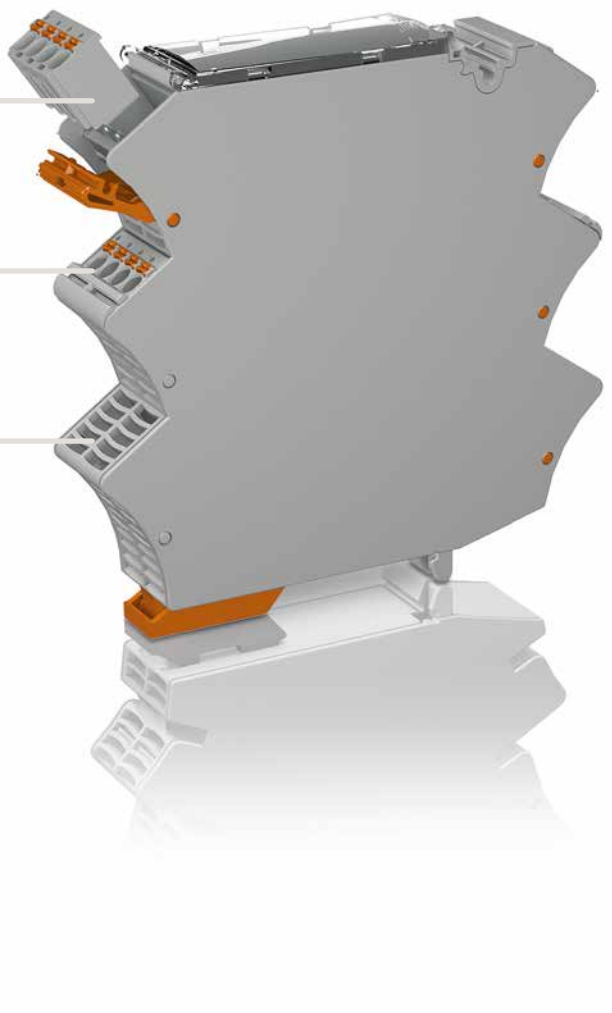


Component Terminal Block with TVS Diode

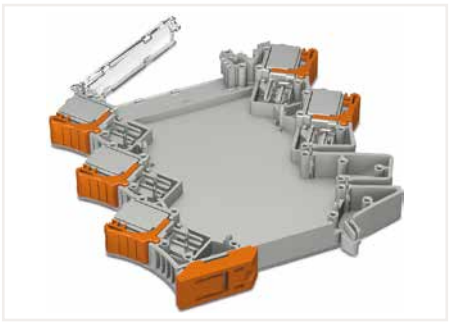
WAGO Accessories and WAGO Tools

WAGO Accessories and WAGO Tools

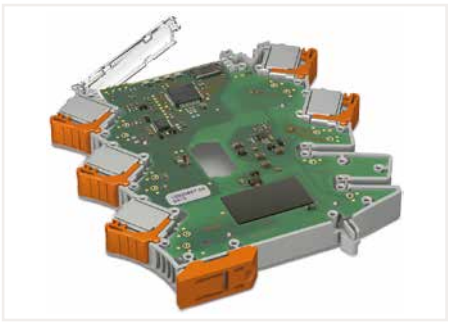
Modular Empty Housings
Overview and Configuration
2857 Series



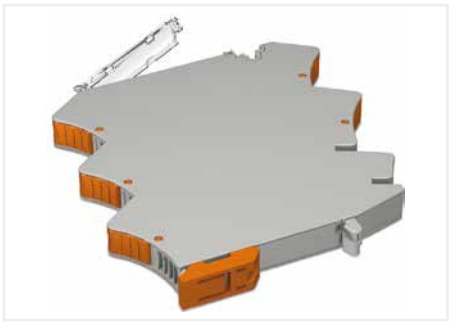
Supplied as a pre-assembled unit:



1. Pre-assembled unit



2. Insert and solder the PCB.



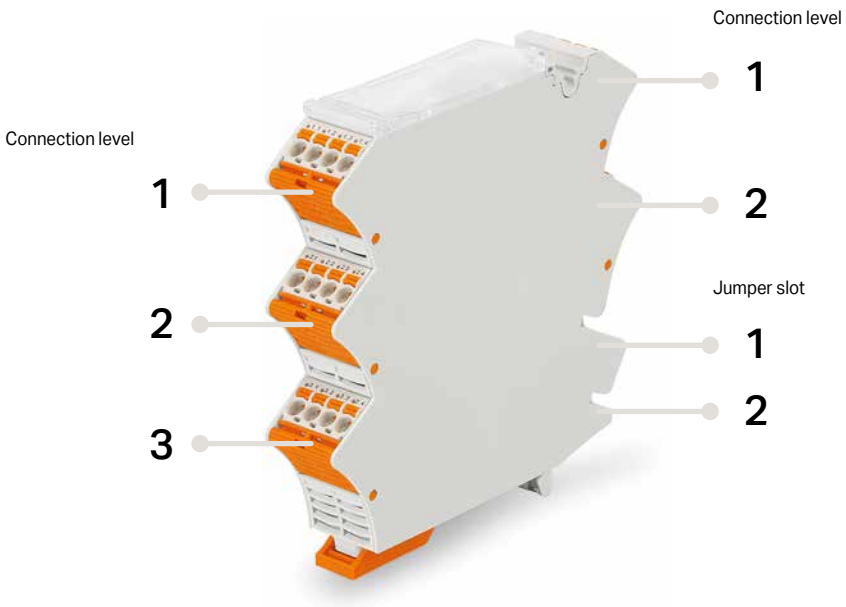
3. Snap on the side wall.

Housing configuration:

Housing width: 12.5 mm	 2857-101	 2857-102	 2857-103	–
Housing width: 22.5 mm	 2857-121	 2857-122	 2857-123	 2857-124
Connection levels	2-2	3-2	3-3	1-1
Jumper slots	2-2	0-2	0-0	2-2

Mixed configuration (fixed/removable/empty slot) upon request!

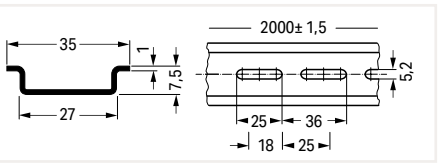
Example of connection level and jumper slot assignment:



Connection levels	3-2
Jumper slots	0-2

DIN-Rail; Rail End Cap; Angled Support Bracket and Collective Jumper Carrier

Dimensions in mm



Steel DIN-rail; I_N 76 A (based on 1 m length); 35 x 7.5 mm; 1 mm thick; 2 m long; per EN 60715

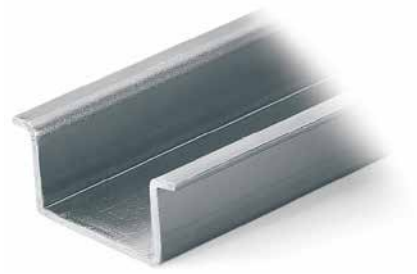
	Item No.	Pack. Unit
unslotted	**210-113**	10 (1)

Hole width: 25 mm; Hole spacing: 36 mm

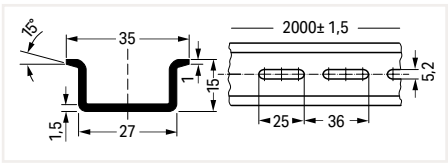
slotted	**210-112**	10 (1)

Hole width: 18 mm; Hole spacing: 25 mm

slotted	**210-115**	1



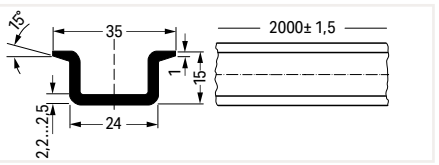
Dimensions in mm



Steel DIN-rail; I_N 125 A (based on 1 m length); 35 x 15 mm; 1.5 mm thick; 2 m long; similar to EN 60715

	Item No.	Pack. Unit
unslotted	**210-114**	10 (1)
slotted	**210-197**	10 (1)

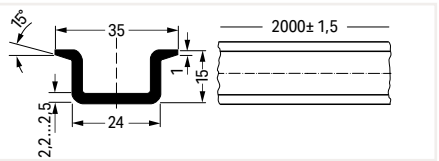
Dimensions in mm



Steel DIN-rail; I_N 125 A (based on 1 m length); 35 x 15 mm; 2.3 mm thick; 2 m long; per EN 60715

	Item No.	Pack. Unit
unslotted	**210-118**	10 (1)

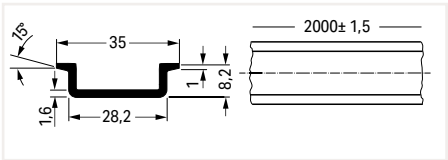
Dimensions in mm



Copper DIN-rail; I_N 309 A (based on 1 m length); 35 x 15 mm; 2.3 mm thick; 2 m long; per EN 60715

	Item No.	Pack. Unit
unslotted	**210-198**	10 (1)

Dimensions in mm



Aluminum DIN-rail; I_N 76 A (based on 1 m length); 35 x 8.2 mm; 1.6 mm thick; 2 m long; similar to EN 60715

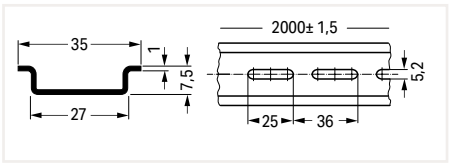
	Item No.	Pack. Unit
unslotted	**210-196**	20 (1)

Rail end cap; for DIN-35 rail (7.5 mm high)

Color	Item No.	Pack. Unit
gray	**209-109**	50 (25)

10

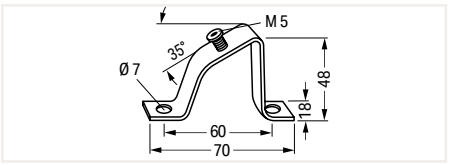
Dimensions in mm



Steel DIN-rail; I_N 76 A (based on 1 m length); 35 x 7.5 mm; 1 mm thick; 2 m long; per EN 60715

	Item No.	Pack. Unit
unslotted	**210-505**	1
slotted	**210-504**	1

Dimensions in mm

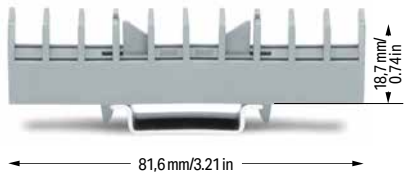


Angled support bracket; without screw

	Item No.	Pack. Unit
	210-148	10

Screw M5 x 8

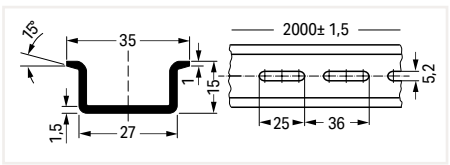
	Item No.	Pack. Unit
	210-149	100 (20)



Collective jumper carrier; for DIN-35 rail; compatible with jumpers for transverse switching terminal block (282-811) and longitudinal switching disconnect terminal block (282-821)
The collective carrier can be snapped onto DIN-35 rails. It stores jumpers during maintenance.

Color	Item No.	Pack. Unit
gray	**282-369**	25

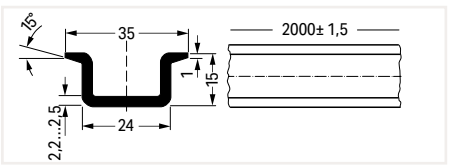
Dimensions in mm



Steel DIN-rail; I_N 125 A (based on 1 m length); 35 x 15 mm; 1.5 mm thick; 2 m long; per EN 60715

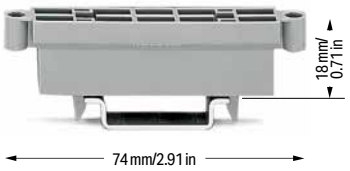
	Item No.	Pack. Unit
unslotted	**210-506**	1
slotted	**210-508**	1

Dimensions in mm



Carrier rail; plastic
Not suited for use with ground terminal blocks!

	Item No.	Pack. Unit
	210-509	10 (1)

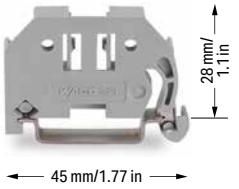


Collective carrier for adjacent jumpers; for DIN-35 rail; for adjacent jumpers (279 to 284 Series); for banana plugs (215 Series)
The collective carrier can be snapped onto DIN-35 rails. It stores adjacent jumpers and banana plugs during maintenance.

Color	Item No.	Pack. Unit
gray	**209-100**	50 (25)

10

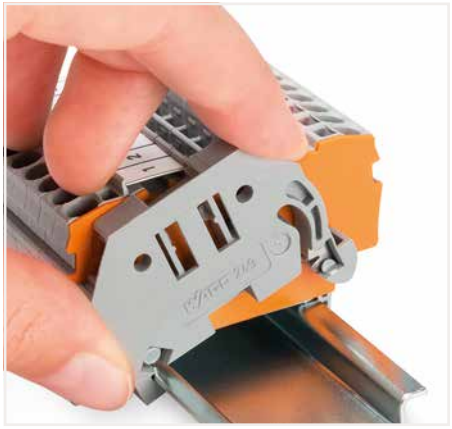
Screwless End Stop; for DIN-35 Rail
249 Series

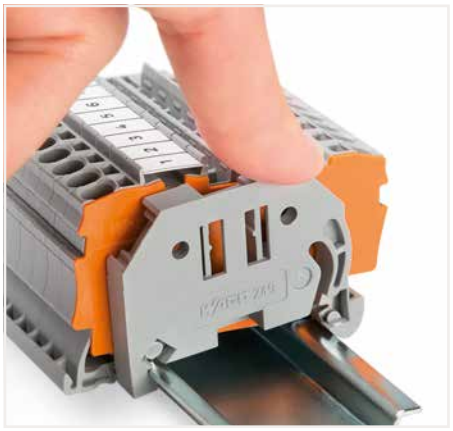


Screwless end stop; for DIN-35 rail; 6 mm wide		
Color	Item No.	Pack. Unit
gray	**249-116**	100 (25)

Screwless end stop; for DIN-35 rail; 10 mm wide		
gray	**249-117**	50 (25)

Screwless end stop; for DIN-35 rail; 14 mm wide		
Color	Item No.	Pack. Unit
gray	**249-197**	10


Simply snap on – that's it!


Simply snap on – that's it!


Simply snap on – that's it!


Removing an end stop from the DIN-rail.

Snap on – that's it! Assembling the WAGO Screwless End Stop is as simple and quick as snapping a rail-mount terminal block onto the rail.

Tool free!

A tool-free design allows rail-mount terminal blocks to be safely and economically secured against any movement on all DIN-35 rails per DIN EN 60715 (35 x 7.5 mm; 35 x 15 mm).

Screwless!

The "secret" to a perfect fit lies in the two small clamping plates which keep the end stop in position, even if the rails are mounted vertically.

Simply snap on – that's it!

In addition, costs are significantly reduced when using large numbers of end stops.

Additional benefit: Three marker slots for all WAGO Rail-Mount Terminal Block Marking Systems and one snap-in hole for WAGO's adjustable height group marker carriers offer individual marking options.

Operating Tool

Operating tool with a partially insulated shaft; Type 1, (2.5 x 0.4) mm blade

Item No.	Pack. Unit
210-719	50 (1)

Operating tool with a partially insulated shaft; Type 2, (3.5 x 0.5) mm blade

Item No.	Pack. Unit
210-720	50 (1)

Operating tool with a partially insulated shaft; Type 3, (5.5 x 0.8) mm blade

Item No.	Pack. Unit
210-721	25 (1)

Set of operating tools with a partially insulated shaft; Type 1, (2.5 x 0.4) mm blade; Type 2, (3.5 x 0.5) mm blade; Type 3, (5.5 x 0.8) mm blade

Item No.	Pack. Unit
210-722	1

Operating tool; Blades: 3.5 mm and 2.5 mm; for installation terminal blocks (TOPJOB® S)

Item No.	Pack. Unit
2009-309	50 (1)

Operating tool; Blades: 3.5 mm and 5.5 mm; for installation terminal blocks (TOPJOB® S)

Item No.	Pack. Unit
2009-310	50 (1)

Operating tool with a partially insulated shaft; Type 1; (2.5 x 0.4) mm blade; short

Item No.	Pack. Unit
210-647	50 (1)

Operating tool with a partially insulated shaft; (2.5 x 0.4) mm blade; short; angled

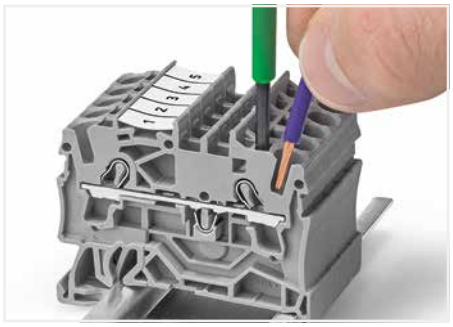
Item No.	Pack. Unit
210-648	50 (1)

Operating tool with a partially insulated shaft; (3.5 x 0.5) mm blade; short

Item No.	Pack. Unit
210-657	50 (1)

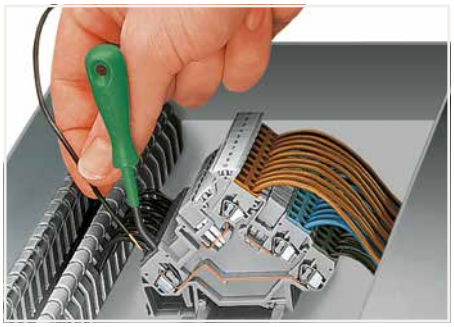
Operating tool with a partially insulated shaft; (3.5 x 0.5) mm blade; short; angled

Item No.	Pack. Unit
210-658	50 (1)



The blade of this operating tool with a partially insulated shaft is ideal for operating front-entry terminal blocks.

Open the clamping unit using an operating tool.



This operating tool with blade dimensions per DIN 5264 is ideal for front-entry sensor/actuator terminal blocks (280 Series).

Set of operating tools in a box (210-722)

Thermal Transfer Printer
Smart Printer


Open the printer.


Printer – open

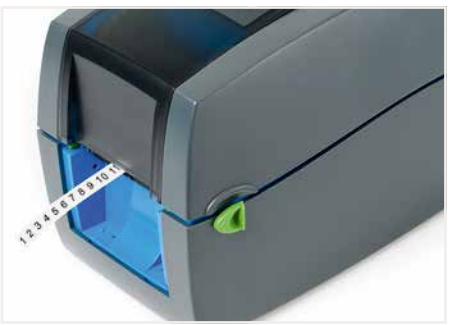

Accessories for unwinding material


Insert the ink ribbon.


Prepare the marking material.


Insert and secure the appropriate roller into the printer.


Printer has several interfaces:
USB, ETHERNET, serial COM port


Fast, cost-effective and easy to use –
printing WMB Inline markers via Smart Printer

Thermal Transfer Printer and Cutter
Smart Printer

Smart Printer; WMB Inline markers; Marking strips; Conductor markers and labels; Resolution: 300 dpi

	Item No.	Pack. Unit
	258-5000	1

Smart Printer
includes:
- Power supply and cable
- USB cable
- 1 x marking strip reel (2009-110)
- 1 x WMB Inline marker reel (2009-115)
- 2 x roller (258-5006 + 258-5007)
- 1 x reel holder
- 1 x ink ribbon (258-5005)

Technical Data	
Printing method	Thermal transfer
Print head	Glass layer, spring-mounted
Print speed (max.)	127 mm/s (WAGO recommends 50.8 mm/s)
Print width (max.)	47 mm
Print length (max.)	762 mm
Print resolution	300 dpi (12 pixels/mm)
See-through/reflective sensor	Yes, centrally mounted
Operating display	Color TFT LCD with navigation button
Memory	8 MB Flash, 16 MB SDRAM
Interfaces	USB, RS-232, ETHERNET 10/100 Mbps, USB Host
Operating voltage	100 … 240 VAC, 50 … 60 Hz (automatic adjustment)
Dimensions (mm) W x H x D	135 x 175 x 245
Weight	2000 g (without printing material)
Operating temperature	5 … 40 °C (41 … 104 °F)
Storage temperature	−20 … 50 °C (−4 … 122 °F)
Safety approvals	CE (EMC)
Ink ribbon (see also Full Line Catalog, Volume 6, Marking)	External roll diameter: 40 mm; Internal core diameter: 12.7 mm (0.5 inch); Max. length: 110 m; Max. width: 58 mm

Cutter for Smart Printer; for marking strips only; not suitable for WMB Inline markers

	Item No.	Pack. Unit
	258-5030	1

Hardware requirements:
- Printer model: Smart Printer
- From manufacturing month/year: 0814 – August 2014
- Firmware version: 1.UW7i
- Printer driver: Version 7.4.2

Software requirements:
- Smart Script: Version 3.88.9.0 or higher
- WAGO printer settings: Version 2.4.0.0 or higher

Approved print material to be cut:
- Marking strips: 2009-110, 709-177, 709-178, 757-901/000-005
- Self-adhesive marking strips: 210-702, 210-870 … -877
- Cable tie markers: 211-835 … -836, 211-836/000-002
- Self-laminating labels: 211-855 … -857
- Conductor markers for thread-on mounting: 211-861 … -863
- Type labels: 210-801 … -804, 210-812
- Continuous labels: 210-831 … -834
- Label for circuit identification: 210-813

Dimensions of printing materials:
- Width (max.): 46 mm
- Thickness (max.): 250 µm

Technical Data	
Width	60 mm
Height	107 mm
Depth	131 mm
Weight	1050 g

Marking System

Terminal Block Width: 3.5 mm, 4 … 4.2 mm and from 5 mm

Use		
Marker width	Can be snapped onto the following terminal block series	
	for continuous marking	that will be separated
3.5 mm	2000, 2020	-
4 … 4.2 mm	279, 2001	-
5 … 5.2 mm	270, 280, 780, 869, 870, 880, 2002, 2003, 2022	Terminal blocks with spacing > 5 … 5.2 mm

WMB Inline; plain; 2.300 WMB markers (3.5 mm)/reel		
Color	3.5 mm Item No.	Pack. Unit
◯ white	**2009-113**	1

WMB Inline; plain; 2.000 WMB markers (4 mm)/reel; stretchable 4 … 4.2 mm		
Color	4 … 4.2 mm Item No.	Pack. Unit
◯ white	**2009-114**	1

WMB Inline; plain; 1.500 WMB markers (5 mm)/reel; stretchable 5 … 5.2 mm		
Color	5 … 5.2 mm Item No.	Pack. Unit
◯ white	**2009-115**	1

Use	
	Can be snapped onto the following terminal block series
	2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2010, 2016, 2020, 2022

Marking strip; plain; 11 mm wide; 50 m reel		
Color	Item No.	Pack. Unit
◯ white	**2009-110**	1

Wall-Mount Adapter
787 Series

Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	35 x 15 x 158.5
Mounting type	Mounting holes: 4 slots, 5.3 mm x 9 mm; Mounting hole spacing: 143 mm x 19.5 mm
Mounting type	Wall-mount
Material	Sheet steel; galvanized
Weight	100 g

Wall-Mount Adapter; for screw mounting 787-8xx devices on a mounting plate or wall without DIN-35 rail

	Item No.	Pack. Unit
	787-895	5

The wall-mount adapter replaces the rail support of the 787-8xx device.
The adapter is secured to the 787-8xx device via the provided screws.

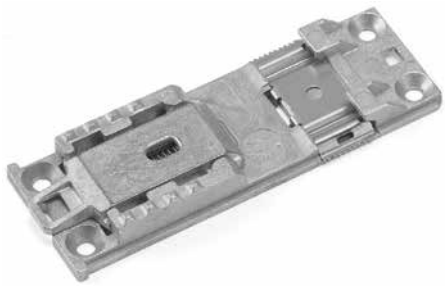
DIN-Rail Adapter
787 Series

DIN-Rail Adapter; secures 787-8xx devices to a DIN-35 rail		
	Item No.	Pack. Unit
	787-896	1

WAGO's 787-896 DIN-Rail Adapter allows both vertical and horizontal mounting of 787-8xx devices.
Mounting the adapter to the device is performed by sliding both single parts into the guide slots of the cooling element and then screwing, allowing the position to be easily changed.

Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	35 x 136.5 x 15.5
Mounting type	Slide both single parts into the guide slot and then screw
Mounting type	DIN-35 rail (EN 60715)
Material	Sheet steel; galvanized
Weight	81 g

DIN-Rail Adapter
787 Series



DIN-Rail Adapter; made of zinc die-cast; secures 787-8xx devices to a DIN-34 rail

	Item No.	Pack. Unit
	787-897	1

WAGO's 787-897 DIN-Rail Adapter allows horizontal mounting of 787-8xx devices.
Mounting the adapter to the device is performed by sliding both single parts into the guide slots of the cooling element and then screwing, allowing the position to be easily changed.

Geometric Data/Mechanical Data/Material Data	
Width x height x depth (mm)	37 x 102.5 x 10.5
Mounting type	Press the adapter into the guide slot
Mounting type	DIN-35 rail (EN 60715)
Material	Zinc die-cast
Weight	96 g

Communication Cable; with RS-232 Interface
787 Series

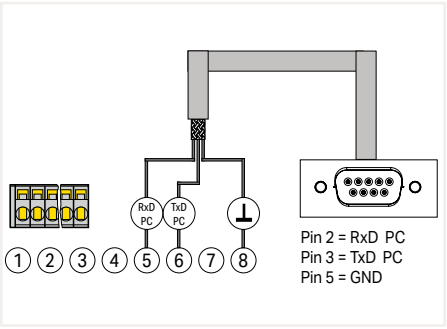
Similar to pictured device

RS-232 Communication Cable; 1.8 m long		
for	Item No.	Pack. Unit
787-8xx	787-890	1

This communication cable is used for configuration and visualization via PC or controller.
It is suitable for all 787-8xx Series devices equipped with an RS-232 serial interface. Download the corresponding PC software for all 787 Series devices at www.wago.com/epsitron.

Function modules for communication with the WAGO-I/O-SYSTEM 750 and other control systems are also available.

Note:
The 787-890 Communication Cable is not electrically isolated.



Signaling and Communication	
Signaling	1 x RS-232 cable
Communication	RS-232 interface
Safety and Protection/Environmental Requirements	
Protection type	IP20 (per EN 60529)
Surrounding air temperature (operation)	−10 … +70 °C
Connection Data	
Module side (787-8xx)	1 x 8-pole female connector (734-108) with strain relief
PC/controller side	1 x 9 pole D-sub socket
Cable type	3 x 0.34 mm²; shielded
Geometric Data/Mechanical Data/Material Data	
Cable length	1.8 m
Material Data	
Weight	113 g

Communication Cable; with RS-232 Interface
787 Series

Similar to pictured device

RS-232 Communication Cable; 1.8 m long; for 787-1675		
for	**Item No.**	Pack. Unit
787-1675	**787-892**	1

This communication cable is used for configuration and visualization via PC or controller.
The communication cable is suitable for 787-1675. Download the corresponding PC software for all 787 Series devices at www.wago.com/epsitron.

Function modules for communication with the WAGO-I/O-SYSTEM 750 and other control systems are also available.

Note:
The 787-892 Communication Cable is not electrically isolated.

Signaling and Communication	
Signaling	1 x RS-232 cable
Communication	RS-232 interface
Safety and Protection/Environmental Requirements	
Protection type	IP20 (per EN 60529)
Surrounding air temperature (operation)	−10 … +70 °C
Connection Data	
Module side (787-1675)	1 x 4-pole female connector (734-104) with strain relief
PC/controller side	1 x 9 pole D-sub socket
Cable type	3 x 0.34 mm²; shielded
Geometric Data/Mechanical Data/Material Data	
Cable length	1.8 m
Material Data	
Weight	97 g

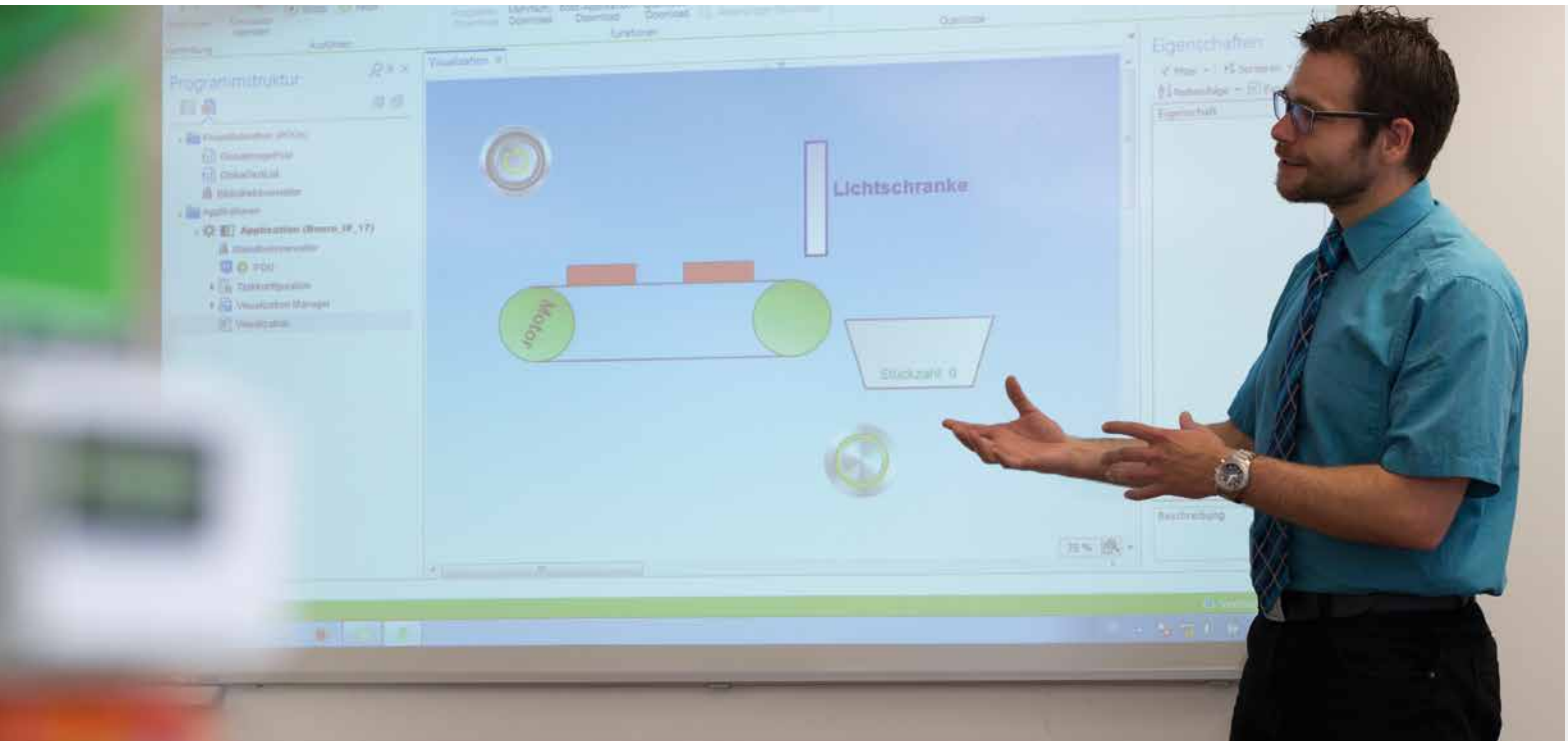
11 Indexes and Adresses

Indexes and Adresses

Item Number Index

Item Number Index

WAGO-Seminars
Learn Today – Benefit Tomorrow



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The small class sizes of WAGO training seminars ensures that no question goes unanswered and no one is overlooked.

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Learning as a group is very effective. Ideas can be discussed and exchanged while experiences can be shared – all for the benefit of the participants.

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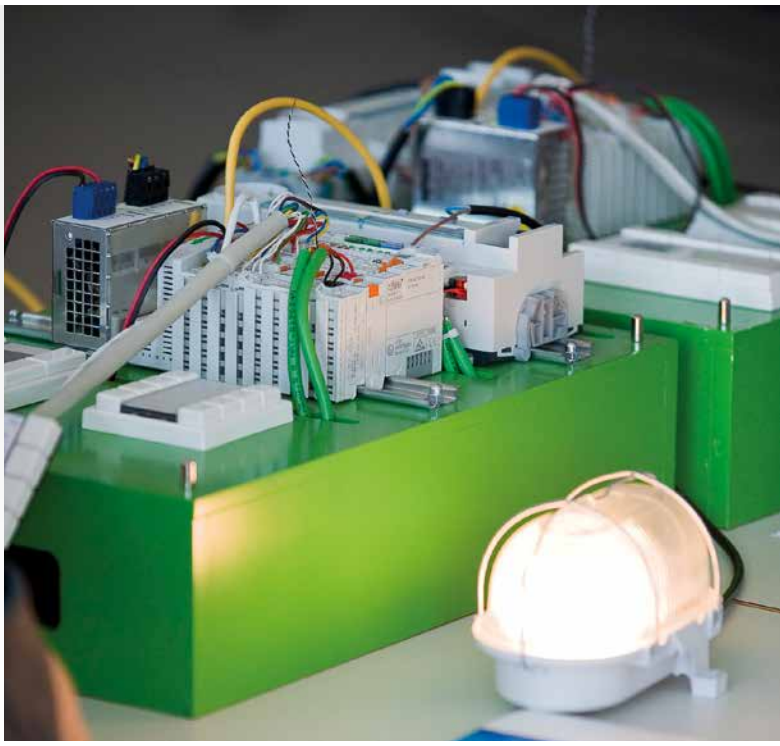

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Companies and Representatives

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Please contact WAGO France

Argentina
Bruno Schillig S.A.
Arenales 4030, B1604CFD
Florida, PBA
Phone +54 11 4730 1100
Fax +54 11 4761 7244
wago@schillig.com.ar

Armenia
ROOT ITSP LLC
33 Halabyan str.
0038, Yerevan
info@root.am

Australia
WAGO Pty. Ltd.
2-4 Overseas Drive
Noble Park Victoria 3174
Phone +61 03 8791 6300
Fax +61 03 9701 0177
sales.anz@wago.com

Austria
WAGO Kontakttechnik Ges.m.b.H.
Europaring F15 602
Campus 21
2345 Brunn am Gebirge
Phone +43 1 6150780
Fax +43 1 6150775
wago-at@wago.com

Azerbaijan
AZ Technics LTD
Zulfi V. Alizade
Y.Safarov str.33, AZ1025,
Baku
Phone +994 50 210 24 49
Fax +994 12 496 83 34
info@AZtechnics.az

Bangladesh
Please contact WAGO India

Belarus
DemsEnergo LLC
Vostochnaya Str. 39, Office 1N.
220040 Minsk
Phone +375 17 2102189
Fax +375 17 2102189
dems@dems.by

ATAVA Techno Ltd.
Ul. Denisovskaya 47, office 1
220006 Minsk
Phone +375173881018
atava@atava.by

Belgium
WAGO BeLux nv
Excelsiorlaan 11
1930 Zaventem
Phone +32 2 717 9090
Fax +32 2 717 9099
info-be@wago.com

Bolivia
ISOTEK S.R.L.
Zona Casco Viejo
Calle Isso #578, B/San Roque
Santa Cruz
Phone +591 721 000 27
info@isotek.bo

Bosnia & Herzegovina
Please contact WAGO Bulgaria

Brazil
WAGO Eletroeletrônicos Ltda
Rua Trípoli, 640, Loteamento Multivias II
Jardim Ermida I
Jundiaí - SP
CEP 13212-217
Phone +55 (11) 2923 7200
info.br@wago.com

Bulgaria
WAGO Kontakttechnik GmbH & Co. KG
Representative Office Sofia
Business Center Serdika
2E Akad. Ivan Geshov Blvd.
Building 1, Floor 4, Office 417
1330 Sofia
Phone +359 2 489 46 09/10
Fax +359 2 928 28 50
info-BG@wago.com

Canada
WAGO Canada, Inc.
1550 Yorkton Court - Unit 1
Burlington, ON L7P 5B7
Phone +1-888-9246-221
info.ca@wago.com

Chile
Desimat Chile
Av Puerto Vespucio 9670
Pudahuel Santiago
Phone +56 2 747 0152
Fax +56 2 747 0153
ventaschile@desimat.cl

China
WAGO Electronic (Tianjin) Co., Ltd.
No.5, Quan Hui Road
Wuqing Development Area
Tianjin 301700
Phone +86 22 5967 7688
Fax +86 22 5961 7668
info-cn@wago.com

Colombia
T.H.L. Ltda.
Cra. 49 B # 91-33
Bogotá
Phone +57 1 621 85 50
Fax +57 1 621 60 28
ventas-thl2@thl.com.co

Croatia
M.B.A. d.o.o.
Frana Supila 5
51211 Matulji
Phone +385 51 275-736
Fax +385 51 275-066
mba@ri.htnet.hr

MICROSTAR d.o.o.
Siget 18 b
10020 Zagreb
Phone +385 1 3647 849
Fax +385 1 3636 662
wago@microstar.hr

Czech Republic
WAGO Elektro spol. sr. o.
Rozvodova 1116/36
143 00 Praha 12 - Modřany
Phone +420 261 090 143
info.cz@wago.com
wago-cz@wago.com

Denmark
WAGO Denmark A/S
Lejrvej 17
3500 Værløse
Phone +45 44 357 777
info.dk@wago.com

Ecuador
ECUAINSETEC CIA LTDA
Yugoslavia N34-110 y Azuay
Quito
Phone +593 2 24 50 475
Fax +593 2 22 51 242
g.castro@ecuainsetec.com.ec

Egypt
IBN Engineering / Distributor (Automation Products)
Phone +2 02 3 721 43 50
Fax +2 02 3 722 17 09
nasrelwy@ibnengineering.com

Estonia
Eltarko OÜ
Treiali tee 2 door 6
Peetri küla
Rae vald
75312 Harjumaa
Phone +372 651 7731/32
Fax +372 651 7786
andres@eltarko.ee

Finland
WAGO Finland Oy
Äyritie 12 B
01510 Vantaa
Phone +358 9 7744 060
Fax +358 9 7744 0660
info.fi@wago.com

France
WAGO Contact SAS
Paris Nord 2
83 Rue des Chardonnerets
93290 - Tremblay en France
B.P. 95947 - ROISSY CDG CEDEX
Phone +33 1 4817 2590
Fax +33 1 4863 2520
info-fr@wago.com

Germany
WAGO Kontakttechnik GmbH & Co. KG
Hansastraße 27
32423 Minden
Phone +49 571 887-0
Fax +49 571 887-169
info@wago.com

WAGO Kontakttechnik GmbH & Co. KG
Waldstraße 1
99706 Sondershausen
Phone +49 3632 659-0
Fax +49 3632 659-100
info@wago.com

Great Britain
WAGO Limited
Triton Park, Swift Valley Industrial Estate
RUGBY
Warwickshire, CV21 1SG
Phone +44 1788 568 008
Fax +44 1788 568 050
uksales@wago.com

Greece
PANAGIOTIS SP. DIMOULAS
DIMOULAS AUTOMATIONS
Kritis Str. 26
10439 Athens
Phone +30 210 883 3337
Fax +30 210 883 4436
wago.info@dimoulas.com.gr

Honduras
CILASAS S.A. de C.V.
Barrio Los Andes
7 Calle entre 14 y 15 Ave. N.O.
P.O. Box. 1061
San Pedro Sula
Phone +504 2557 1146/7
Fax +504 2557 1149
ventas@iecilasa.com

Hong Kong
National Concord Eng., Ltd.
Unit A-B, 5/F.
Southeast Industrial Building
611-619 Castle Peak Road
Tsuen Wan, N.T.
Phone +852 2429 2611
Fax +852 2429 2164
sales@nce.com.hk

Hungary
WAGO Hungária KFT
Ipari Park, Gyár u. 2
2040 Budapest
Phone +36 23 502-170
Fax +36 23 502-1
info.hu@wago.com

Iceland
Johan Rönning ehf / S.Gudjonsson
Smidjuvegur 3
200 Kopavogur
Phone +354 520-4500
Fax +354 520-4501
export@wago.com

India
WAGO Private Limited
C-27, Sector-58, Phase-III
Noida-201 301
Uttar Pradesh-201301
Phone +91 120 438 8700
Fax +91 120 438 8799
info.india@wago.com

Indonesia
Please contact WAGO Singapore

Iraq
Please contact WAGO Middle East

Ireland
Drives & Controls
Unit F4, Riverview Business Park
Nangor Road
Dublin 12
Phone +353 1 4604474
Fax +353 1 4604507
info@drivesandcontrols.ie

Israel
Comtel Israel Electronic Solutions Ltd.
Bet Hapaamon
20 Hataas Street
P.O. Box 66
44425 Kefar-Saba
Phone +972 9 76 77 240
Fax +972 9 76 77 243
sales@comtel.co.il

Italy
WAGO Elettronica SRL a Socio Unico
Via Parini 1
40033 Casalecchio di Reno (BO)
Phone +39 051 6132112
Fax +39 051 6132888
info-ita@wago.com

Japan
WAGO Co. of JAPAN Ltd.
Kinshicho Prime Tower
1-5-7, Kameido, Koto-ku
Tokyo 136-0071
Phone +81 3 5627 2050
Fax +81 3 5627 2055
info-jp@wago.com

Jordan
Oxgen for Engineering Systems Co. L.L.C
P.O Box: 2154 Amman
11953 Jordan
Phone +962 79 9 860 869
Fax. +962 655 211 89
info@oxgn-grp.com

Kazakhstan
Axima LLP
232/2, Ryskulov avenue
050061 Almaty
Phone +7 727 356 52 91/92/93
Fax +7 727 327 14 92/93
trade1@axima.kz
or@axima.kz

Technik-Tade LLC
Kabanbay Batyra Str. 11
office 305
070004 Ust-Kamenogorsk
Phone +7 7232 254064
Fax +7 7232 253251
info@technik.kz

Korea
WAGO Korea Co., Ltd.
Room A413~A416, A dong,
Indukwon IT Valley Building, Imiro 40,
Poil-dong,Uiwang-Si, Gyeonggi-do,
16006, South Korea
Phone +82 31 421 9500
Fax +82 31 360 2476
info.korea@wago.com

Kosovo
Please contact WAGO Bulgaria

Latvia
INSTABALT LATVIA SIA
Vestienas iela 6
Rīga, LV-1035
Phone +371 6790 1188
Fax +371 6790 1180
info@instabalt.lv

Lebanon
Gemayel Trading & Contracting
Rue 55, Antonins Project-Bloc L
P.O. BOX 70-1096
Antelias, Lebanon
Phone +961 3 22 30 29
Fax +961 4 52 10 29
info@gtclb.com

Lithuania
INSTABALT LIT UAB
Savanorių 187
Vilnius, 2053
Phone +370 52 322 295
Fax +370 52 322 247
info@instabalt.lt

Luxembourg
Please contact WAGO Belgium

Malaysia
WAGO Automation Sdn. Bhd.
No 806, Block A4, Leisure Commerce Square,
No 9, Jalan PJS 8/9, 46150 Petaling Jaya,
Selangor Darul Ehsan, Malaysia
Phone +60 3 7877 1776
Fax +60 3 7877 2776
info-my@wago.com

Maledivea
Please contact WAGO India

Mexico
WAGO S.A. de C.V.
Carretera estatal 431 Km. 2+200
Lote 99 Módulo 6
Parque Industrial Tecnológico Innovsción
Querétaro
El Marqués, Qro. 76246
Phone +52 442 221 5946
Fax +52 442 221 5063
info.mx@wago.com

Morocco
Automatisme & Connection Maroc
23, Rue Boured
2ème étage, appt4
Roche Noire
20300 Casablanca
Phone +212 522 24 21 72/73
Fax +212 522 24 21 75
info-fr@wago.com

Nepal
Please contact WAGO India

Netherlands
WAGO Nederland B.V.
Laan van de Ram 19
7234 BW APELDOORN
Phone +31 55 36 83 500
Fax +31 55 36 83 599
info-nl@wago.com

New Zealand
Please contact WAGO Australia

Engineering Computer Services Ltd
7-19 Ruffell Rd
Hamilton, 3200
New Zealand
Phone +64 (0) 7 849 2211
Fax +64 (0) 7 849 2220
sales@ecsnz.com

Nigeria
GIL Automations Ltd.
Daily Times Complex
2 Lateef Jakande Rd., Agidingbi
100271 Ikeja, Lagos State
Phone +234 17132672335
sales@gilautomation.com

Norway
WAGO Norge AS
Jerikoveien 20
1067 Oslo
Phone +47 22 30 94 50
Fax +47 22 30 94 51
info.no@wago.com

Oman
Please contact WAGO Middle East

Pakistan
FuziLogiX Automation & Control
Suit No. 14, 5th Floor, Shan Arcade
New Garden Town, Lahore
Phone +92 42 594 1503 - 4
Fax +92 42 585 1431
info@fuzilogix.com

S.A. Hamid & Co.
7 Brandreth Road
Lahore, 54000
Phone +92 42 376 500 99
Fax +92 42 376 513 91
sales@sahamid.com

Paraguay
AESA
Av. Madame Lynch
c/Antolin Irala
2309 Asunción
Phone +59 521674524
info@aesa.com.py

Philippines
Please contact WAGO Singapore

Poland
WAGO ELWAG sp. z o. o.
ul. Piękna 58 a
50-506 Wrocław
Phone +48 71 3602970
Fax +48 71 3602999
wago.elwag@wago.com

Portugal
MORGADO & CA. LDA - SEDE
Estrada Exterior da
Circunvalação 3558/3560
Apartado 1057
4435 Rio Tinto
Phone +351 22 9770600
Fax +351 22 9770699
geral@morgadocl.pt

Quatar
GEBD - Gulf European Business
Development - Company W.L.L.)
PO Box: 20 000
Doha, Quatar
Phone +974 5591 5682
info@gebdc.com

Republic of Moldova
Smart Delight SRL
Bulgara Str. 9/6
2001 Chisinau
Phone +373 (373) 69 10 22 01
alexandres@starnet.md

Republic of North Macedonia
Please contact WAGO Bulgaria

Kompjunet Inzenering
Vladimir Komarov 1A-3/9
1000 Skopje
Phone +389 2 521 12 00

Romania
WAGO Kontakttechnik GmbH & Co. KG
Representative Office Romania
Sos. Pipera-Tunari nr. 1/1
building 1, 2nd floor
077190 Voluntari, Ilfov
Phone +40-(0)31 421 85 68
info-RO@wago.com

Russia
OOO WAGO Contact Rus
Ilimskaya strret 5, bldg. 2
127576 Moscow
Phone +7 495 223-4747
info.ru@wago.com
www.wago.ru

Saudi Arabia
Saudi Electronic Trading
P.O. Box 60712
Riyadh 11555
Phone +966 11 2063 377
Fax +966 11 4633 297
info@setra.com.sa

Serbia
Please contact WAGO Bulgaria

Mehatronik Sistem d.o.o.
Bul. Oslobodjenja 30
32000 Cacak
Phone +381 (0)32 310 088
Fax. +381 (0)32 371 571
Mobil +381 (0)64 877 22 02
office@mehatronik.com

Sigma Controls Engineering d.o.o.
Jovana Skerlica 22
18000 Nis
Mobil +381 (0)63 403 104
zeljko.savic@sce.rs

Singapore
WAGO Electronic Pte Ltd
138 Joo Seng Road #06-01
Singapore 368361
Phone +65 62866776
Fax +65 62842425
info-sing@wago.com

Slovakia
Proelektro spol. s r.o.
Na barine 22
841 03 Bratislava - Lamač
Phone +421 2 4569 2503
info@wago.sk

Slovenia
IC elektronika d.o.o.
Vodovodna cesta 100
1000 Ljubljana
Phone +386 1568 01 26
Fax +386 1568 91 07
info@ic-elect.si

Slovenia
Elektronabava d.o.o.
Cesta 24 junija 3
1231 Ljubljana
Phone +386 1 58 99 300
Fax +386 1 58 99 409
info@elektronabava.si

South Africa
Shorrock Automation CC
Nellmapius drive
5 Regency Drive, Route 21 Corp. Park
0051 Centurion
Phone +27 12 4500300
Fax +27 12 4500322
sales@shorrock.co.za

Spain
DICOMAT S.L.
Avda. de la Industria, 36
Apartado Correos, 1.178
28108-Alcobendas (Madrid)
Phone +34 91 662 1362
Fax +34 91 661 0089
info@dicomat-asetyc.com

Sri Lanka
Please contact WAGO India

Sweden
WAGO Sverige AB
Box 11127, 161 11 BROMMA
Besöksadress: Adolfsbergsv. 31
Phone +46 858410680
info.se@wago.com

Switzerland
WAGO CONTACT SA
Rte. de l'Industrie 19
Case Postale 168
1564 Domdidier
Phone +41/26 676 75 00
Fax +41/26 676 75 01
info.switzerland@wago.com

Syria
Please contact WAGO Middle East

Taiwan R.O.C.
WAGO Contact, Ltd.
5F., No.168, Jiankang Rd
Zhonghe City
Taipei County 23585, Taiwan
Phone +886 2 2225 0123
Fax +886 2 2225 1511
info.taiwan@wago.com

Thailand
WAGO Contact Ltd.
4th Floor, KS Building
213/6-8 Rachada-Phisek Road
Dingdaeng Bangkok 10400
Phone +66 2 6935611
Fax +66 2 6935612
info-th@wago.com

Tunisia
Please contact WAGO France

Turkey
WAGO Elektronik Sanayi ve Ticaret Ltd. Şti.
Yukarı Dudullu Mahallesi Bayraktar Bulvarı
Cad. Hattat Sok. No. 10
34775 Ümraniye - Istanbul
Phone +90 216 472 1133
Fax +90 216 472 9910
info.tr@wago.com

Ukraine
LLC RPE „Logicon"
Predslavinskaya street, 37, office 303
03150 Kiev
Phone +380 44 5228019
Fax +380 44 2611803
info@logicon.ua

Micropribor Ltd.
4, Krzhizhanovsky Str.
03142 Kiev
Phone +380 44 392 93 86
Fax +380 44 392 93 87
sales@micropribor.kiev.ua

United Arab Emirates (UAE)
WAGO Middle East (FZC)
SAIF Zone, Q4-282
P.O. Box 120665
Sharjah, UAE
Phone +971 6 5579920
Fax +971 6 5579921
info.uae@wago.com

Uruguay
Fivisa Electricidad
Avda. Urugay 1274
11100 Montevideo
Phone +59 829 020 808
Fax +59 829 021 230
info@fivisa.com.uy

USA
WAGO CORPORATION
N120 W19129 Freistadt Road
Germantown, WI 53022
Phone +1 262 255 6222
Fax +1 262 255 3232
Toll-Free: 1-800 DIN Rail (346-7245)
info.us@wago.com

Venezuela
PETROBORNAS, C.A.
C.C. PLAZA AEROPUERTO - PISO 1 - LOCAL P1-B-03
(8015) UNARE - PUERTO ORDAZ - ESTADO BOLÍVAR
REPÚBLICA BOLIVARIANA DE VENEZUELA
Phone +58 286 951 3382
Fax +58 286 951 3382
info@petrobornas.com

Vietnam
Please contact WAGO Germany (Minden)

Version: 10/2020
Current adresses at www.wago.com

Notes

Notes

Notes

0888-3000/0200-6901 – WAGO Power Supplies 2021/2022 GB – 03/2021-00 – Printed in Germany – Subject to changes

WAGO Kontakttechnik GmbH & Co. KG
Postfach 2880 · D · 32385 Minden
Hansastraße 27 · D · 32423 Minden
info@wago.com
www.wago.com

Headquarters	+49 571 887 - 0
Sales	+49 571 887 - 44222
Order Service	+49 571 887 - 44333
Fax	+49 571 887 - 844169