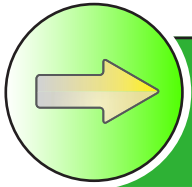


EMPARRO

Murrelektronik presents Emparro, our newest generation of single phase, switch mode power supply units. These units will win you over with their impressive efficiency rating (up to 95%). This keeps power loss to a minimum and lowers energy consumption.



REASONS TO LOOK

- Up to 95% efficiency rating
- 50% Power Boost for up to 4 seconds
- Metal housing with optimum EMC characteristics
- No derating from -25 to +60°C
- Narrow (50 - 85mm) width
- High mains failure bridging time



FEATURES

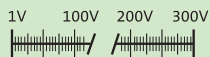
- Integrated Device Protection
- Push-in Terminals
- Alarm Contact
- Minimal Power Loss

COMPETITIVE COMPARISON

The photo shows that Emparro (left) emits less heat than a conventional switch mode power supply (right) based on the same input current. Because Emparro remains cooler, the components installed near it are exposed to a lower amount of heat and, as a result, their lifespan can be longer.



INPUT VOLTAGE

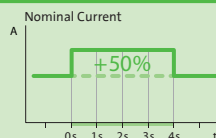


AC 85V AC - 265V AC
DC 90V DC - 250V DC

A Global Player

The wide input voltage range of 85 - 265V AC (90 - 250V DC) makes Emparro suitable for worldwide use.

POWER BOOST

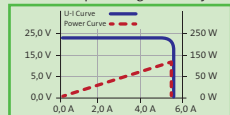


Emparro Makes Startup Easier

Emparro provides up to 50% more power for up to 4 seconds (Power Boost). This allows you to start higher loads and capacities without having to have a second power supply unit.

SHUTDOWN BEHAVIOR

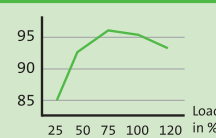
Nominal Output Voltage, Recovery



Power Limiter

In the event of an overload, Emparro's output voltage is held to a constant current. It is limited to 100% of the nominal current (or 150% in Power Boost mode). This reliably protects the power supply unit from damages caused by overloads.

EFFICIENCY



Highly Efficient

By keeping power loss to a minimum, operating costs are reduced. By lowering the amount of heat generated, Emparro, and the components installed around it, will have a longer lifetime. And you can use more compact enclosures.

Single Phase Primary Switch Mode	Emparro 120W	Emparro 240W	Emparro 480W
			
Ordering Data	Art. No. - Current	Art. No. - Current	Art. No. - Current
12V DC	85434 - 10A		
24V DC	85440 - 5A	85441 - 10A	85442 - 20A
48V DC	85437 - 2.5A	85438 - 5A	85439 - 10A
Input			
Input Voltage	85 - 265V AC / 90 - 250V DC		
Input Current	.55A at 240V AC	1.1A at 240V AC	2.2A at 240V AC
Inrush Current After 1ms	< 13A		
Output			
Output Voltage	Adjustable 12 - 15V DC, 24 - 28V DC, 48 - 56V DC		
Power Boost	50% (≥ 4sec.)		
Efficiency	Up to 95%		
Protection	Short Circuit and Overload Protected (Output), Power Limiter		
General Data			
MTBF	> 500,000 h		
Mains Failure Bridging	> 20ms at 230V AC		
Status Display	LED Green/Red		
Standards	EN 60950-1, EN 61204-3, EN 55011 A, EN 61000-3-2		
Temperature Range	-25 - +60°C Without Derating (Storage Temp. -40 - +85°C)		
Mounting Method	DIN rail mounting TH35 (EN 60715)		
Dimensions (H x W x D)	125 x 50 x 137mm	125 x 65 x 137mm	125 x 85 x 137mm
Other	Relay Alarm Contact for Short Circuit, Overload and Over-temperature		
Approvals	UL		