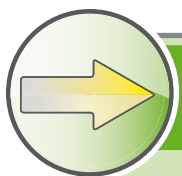


# COMPACT

SWITCH MODE POWER SUPPLY UNITS FOR A REGULATED POWER SUPPLY

## EMPARRO SIMPLY THE BEST

Murrelektronik presents Emparro, the latest generation of single-phase switch mode power supply units. These units will win you over with their impressive efficiency rate of up to 95 %. This reduces power loss to a minimum and lowers energy consumption which will have positive effects on your wallet.



### GOOD ARGUMENTS

- Efficiency up to 95 %
- 150 % Power Boost for at least 4 seconds
- Metal housing with optimum EMC characteristics
- No derating from -25 to +60°C
- Very small width
- High mains failure bridging time
- Seven models – the solution for many applications



### EMPARRO FEATURES...

- Integrated device protection
- Push-in terminals
- Alarm contact
- Long lifetime
- Low power loss

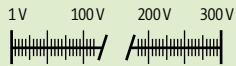
### EMPARRO COMPETITIVE COMPARISON...

The comparison based on the same input current shows: Emparro (left) emits significantly less heat energy than conventional switch mode power supply units. The device itself remains cooler which protects the components installed near the unit. This increases their lifetime.

Emparro vs. Standard Power Supply



### Input voltage

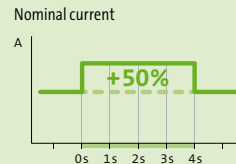


AC **85 V AC...265 V AC**  
 DC **90 V DC...250 V DC**

### The Global Player

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

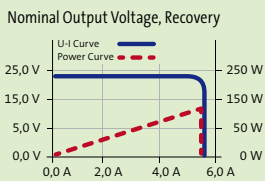
### Power boost



### Emparro Makes Startup Easier

Emparro provides up to 150% more power for up to 4 seconds. You can start higher loads and capacities without requiring a second power supply unit.

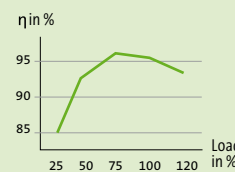
### Shutdown behavior



### Power Limiter

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

### Efficiency



### Highly Efficient

The minimum power loss guarantees permanently reduced operating costs. By not wasting heat, it ensures that Emparro and the components installed around it will have a long lifetime. And you can use more compact enclosures.

### Single phase, primary switched

– short circuit and overload protected (Power limiter)

– Power Boost 150%

### Emparro 120 W



### Emparro 240 W



### Emparro 480 W



Ordering data	Current	Art. No.	Current	Art. No.	Current	Art. No.
12 V DC	10 A	<b>85434</b>	–	–	–	–
24 V DC	5 A	<b>85440</b>	10 A	<b>85441</b>	20 A	<b>85442</b>
48 V DC	2,5 A	<b>85437</b>	5 A	<b>85438</b>	10 A	<b>85439</b>
<b>Input</b>						
Input voltage	85...265 V AC / 90...250 V DC					
Input current	0.55 A at 240 V A		1.1 A at 240 V AC		2.2 A at 240 V AC	
Inrush current after 1 ms	< 13 A		< 13 A		< 13 A	
<b>Output</b>						
Output voltage	adjustable 12...15 V DC, 24...28 V DC, 48...56 V DC					
Power Boost	150% for 4 sec					
Efficiency	up to 95%					
Protection	short-circuit and overload protected (output), Power Limiter					
<b>General data</b>						
MTBF	> 500,000 h					
Mains failure bridging	> 20 ms at 230 V AC					
Status display	LED green/red					
Standards	EN 60950-1, EN 61204-3, EN 55011 B, EN 61000-3-2					
Temperature range	-25...+60 °C without derating (storage temperature -40... 85 °C)					
Mounting method	DIN-rail mounting TH35 (EN 60715)					
Dimensions (H x W x D)	125 x 50 x 137 mm		125 x 65 x 137 mm		125 x 85 x 137 mm	
Other	relay alarm contact for short-circuit, overload and over-temperature					
Approvals	UL listed and recognized, GL in preparation					