

## Power Supply Emparro20-Pro-1-phase

In: 100 - 240 VAC / 100 - 230 VDC; OUT: 42 - 56 V/10ADC

The single-phase DIN rail power supplies of the Emparro20-Pro series offer even more functions than the Emparro. With the optional IO-Link adapter, the switching power supply can be controlled and monitored remotely, which enables comprehensive integration into your control system. In addition, these power supplies have integrated electronic load circuit monitoring, which means that external line protection on the DC side is no longer required. This not only reduces the installation effort, but also increases the reliability of the power supply. Emparro20-Pro also gives you access to extensive diagnostic information to minimize disruptions and downtime and maximize the efficiency of your application.

### [Link to Product](#)

#### Illustration



Product may differ from Image



#### Electrical data

Number of devices parallel connection max.	2
Number of devices series connection max.	1
Parallel connection	yes
Series connection	yes
Security level	SELV/PELV

#### Electrical data | Supply

Power frequency	50/60 Hz
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#### Electrical data | Input

Input current at input voltage 2 DC	2,2 A
Input current at input voltage 1 DC	5,2 A
Input voltage 1 AC	100 V
Input voltage 1 DC	100 V
Input voltage 2 AC	240 V
Input voltage 2 DC	230 V
Input voltage AC min.	90 V
Input voltage AC max.	264 V
Input voltage DC min.	90 V
Input voltage DC max.	250 V

Input current at input voltage 1 AC	5,3 A
Input current at input voltage 2 AC	2,2 A
Phase number input	2
Efficiency	93,5 % @ 115 V AC, 95,5 % @ 230 V AC

#### Electrical data | Output

Output rating	480 W
Output voltage DC	48 V
Output voltage DC min.	42 V
Output voltage DC max.	56 V
Output current	10 A
Duration Power Boost min.	5 s
Ripple (s-s) max.	10 mV
Spikes (s-s) max.	110 mV

#### Diagnostics

Alarm contact	yes
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#### Installation | Connection

Connection	Push-In spring clamp terminals
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#### Device protection | Electrical

Installation height max. ASL	5000 m
Degree of protection (EN IEC 60529)	IP20
Protection class (EN IEC 61140)	I
Overload protection output	yes
Pollution Degree	2
Short-circuit protection output	yes
Overtemperature protection output	yes

#### Device protection | Mechanical

Cooling type	Natural convection
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#### Mechanical data | Material data

Combustibility class housing (UL94)	V-0
Conformal coated PCB	no
Material housing	Aluminium, Stainless steel

#### Mechanical data | Mounting data

Net weight	890 g
Mounting method	geschnappt
Suitable for mounting type	Mounting rail TH35
mounting position	horizontal, vertical
Height	143 mm
Width	50 mm
Depth	153 mm

#### Environmental characteristics | Climatic

Ambient temperature min.	-40 °C
Ambient temperature max.	70 °C
Derating from	60 °C
Storage temperature min.	-40 °C
Storage temperature max.	85 °C
Relative humidity min. (operation)	5 %
Relative humidity max. (operation)	95 %

#### Environmental product conformity

REACH	(EC) No 1907/2006
REACH-SVHC	compliant
RoHS	2011/65/EU

China RoHS	compliant   EPUP 20
WEEE	compliant
Conformity	
CE	2014/30/EU
Approvals	
UL	E200364
ULc	E200364
SEMI F47	compliant
Commercial data	
customs tariff number	85044095
GTIN	4048879910620
Packaging unit	1