

**PRO BAS 480W 24V 20A****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



High performance, compact design and a good price-performance ratio are the main characteristics of the new PRObas power supplies. The product family comprises 12 variants with 5, 12, 24 or 48 V DC output voltage and a wide-range input. All units have comprehensive safety functions and are internationally approved. Due to compatibility with our electronic fuses, DC UPS and diode modules, they are also suitable for setting up power management systems.

**General ordering data**

Version	Power supply, switch-mode power supply unit, 24 V
Order No.	<a href="#">2838480000</a>
Type	PRO BAS 480W 24V 20A
GTIN (EAN)	4064675444176
Qty.	1 pc(s).

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## Technical data

### Dimensions and weights

Depth	125 mm	Depth (inches)	4.921 inch
Height	130 mm	Height (inches)	5.118 inch
Width	59 mm	Width (inches)	2.323 inch
Net weight	1,380 g		

### Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-25 °C...70 °C
Start-up	≥ -40 °C	Humidity	5...95 % rel. humidity, no condensation

### Input

AC input voltage range	85...264 V AC (derating at 100 V AC)		
Current consumption in relation to the input voltage	Voltage type	AC	
	Input voltage	230 V	
	Input current	2.23 A	
	Voltage type	AC	
	Input voltage	115 V	
	Input current	4.58 A	
	Voltage type	DC	
	Input voltage	120 V	
	Input current	4.39 A	
DC input voltage range	110...370 V DC (derating at <120 V DC)		
Frequency range AC	45...65 Hz		
Input fuse (internal)	Yes		
Inrush current	20 A @ 230 V AC, 25 °C		
Rated input voltage	110...240 V AC / 120...340 V DC		
Recommended back-up fuse	6 A / DI, safety fuse 16 A, Char. B, circuit breaker 6...8 A, Char. C, circuit breaker		
Wire connection method	Screw connection		

### Output

Capacitive load	5.5mF			
Connection system	Screw connection			
Continuous output current @ $U_{Nominal}$	20 A @ 55 °C, 12.5 A @ 70 °C			
Mains failure bridge-over time	Mains failure bridge-over time, min.	20 ms		
	Input voltage type	AC		
	Input voltage	120 V		
	Output current	20 A		
	Output voltage	24 V		
	Mains failure bridge-over time, min.	20 ms		
	Input voltage type	AC		
	Input voltage	230 V		
	Output current	20 A		
	Output voltage	24 V		
	Nominal output current for $U_{nom}$	20 A @ 55 °C		
	Output power	480 W		
Output voltage, max.	28 V			
Output voltage, min.	22 V			
Overload protection	Yes			
Parallel connection option	yes, max. 3			
Protection against inverse voltage	Yes			

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Rated output voltage	24 V DC
Residual ripple, breaking spikes	≤ 100 mVpp @ full Load
Wire connection method	Screw connection

### General data

AC failure bridging time @ $I_{nom}$	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC	Degree of efficiency	95% @ 230 V AC
Earth leakage current, max.	3.5 mA	Housing version	Metal, corrosion resistant
Humidity	5...95 % rel. humidity, no condensation	Mounting position, installation notice	Horizontal on TS35 mounting rail. 50 mm of clearance at top & bottom for air circ. Can mount side by side with no space in between.
Power factor (approx.)	0.95 @ 230 V AC, nominal load	Power loss, idling	2 W
Power loss, nominal load	30 W	Protection against over-heating	Yes
Protection degree	IP20	Short-circuit protection	Yes
Status indication	Green LED		

### EMC / shock / vibration

Noise emission in accordance with EN55032	Class B	Shock resistance IEC 60068-2-27	30 g in all directions
Vibration resistance IEC 60068-2-6	0.7 g according to EN 50178		

### Insulation coordination

Insulation voltage input / earth	3.5 kV	Insulation voltage output / earth	0.5 kV
Insulation voltage, input/output	3.5 kV	Pollution severity	2
Protection class	I, with PE connection		

### Electrical safety (applied standards)

For use with electronic equipment	Acc. to EN50178	Safety extra-low voltage	SELV acc. to IEC 61010-1, PELV acc. to IEC 61010-2-201
Safety transformers for switch-mode power supplies	According to EN 61558-2-16		

### Connection data (input)

Conductor cross-section, AWG/kcmil , max.	10 AWG	Conductor cross-section, AWG/kcmil , min.	26 AWG
Conductor cross-section, flexible , min.	0.18 mm <sup>2</sup>	Conductor cross-section, rigid , max.	6 mm <sup>2</sup>
Conductor cross-section, rigid , min.	0.18 mm <sup>2</sup>	Number of terminals	3 for L/N/PE
Screwdriver blade	0.8 x 4.0	Tightening torque, max.	0.6 Nm
Tightening torque, min.	0.5 Nm	Wire connection cross section, flexible (input), max.	6 mm <sup>2</sup>

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## Technical data

## Connection data (output)

Conductor cross-section, AWG/kcmil , max.	10 AWG	Conductor cross-section, AWG/kcmil , min.	26 AWG
Conductor cross-section, flexible , max.	6 mm <sup>2</sup>	Conductor cross-section, flexible , min.	0.18 mm <sup>2</sup>
Conductor cross-section, rigid , max.	6 mm <sup>2</sup>	Conductor cross-section, rigid , min.	0.18 mm <sup>2</sup>
Connection system	Screw connection	Number of terminals	5 (+ + / - -)
Screwdriver blade	0.8 x 4.0	Tightening torque, max.	0.6 Nm
Tightening torque, min.	0.5 Nm		

## Signalling

Contact load (NO contact)	max. 30 V DC / 1 A	Floating contact	Yes
LED green	Operating voltage OK	Status indication	Green LED
Trigger voltage, LED	U <sub>out</sub> > 0.9 x U <sub>nominal</sub> min	Trigger voltage, relay	U <sub>out</sub> > 0.9 x U <sub>nominal</sub> min

## Classifications

ETIM 6.0	EC002540	ETIM 7.0	EC002540
ETIM 8.0	EC002540	ETIM 9.0	EC002540
ECLASS 9.0	27-04-07-01	ECLASS 9.1	27-04-07-01
ECLASS 10.0	27-04-07-01	ECLASS 11.0	27-04-07-01
ECLASS 12.0	27-04-07-01	ECLASS 13.0	27-04-07-01
ECLASS 14.0	27-04-07-01		

## Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c, 7a, 7cl
REACH SVHC	Lead 7439-92-1 Lead monoxide 1317-36-8
SCIP	d62541f7-8058-4336-b693-7303c8b40800

## Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E258476

## Downloads

Approval/Certificate/Document of Conformity	<a href="#">PRO BAS CSA UL 62368-1.pdf</a> <a href="#">UKCA Declaration of Conformity Declaration of Conformity</a>
Engineering Data	<a href="#">CAD data – STEP</a>
User Documentation	<a href="#">Operating Instructions</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>

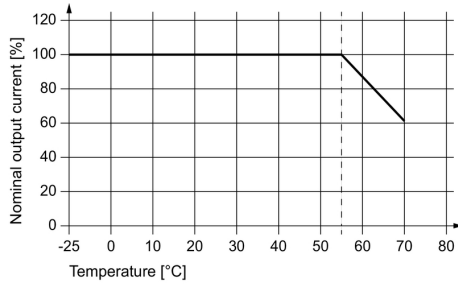
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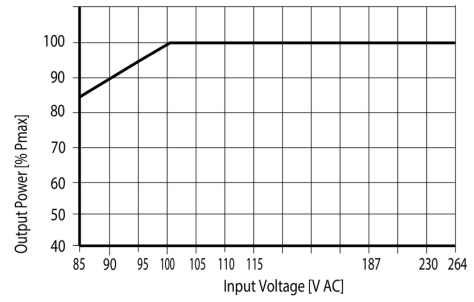
Drawings

Derating curve



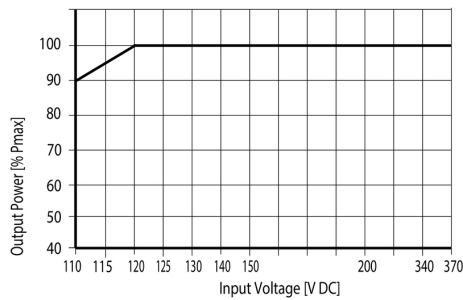
Temperature Derating

Derating curve



AC-Input Derating

Derating curve



DC-Input Derating