

PRO BAS 240W 48V 5A

Weidmüller Interfaces GmbH & Co. KG

Postfach 3030

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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, 48 V
Order No.	2838470000
Type	PRO BAS 240W 48V 5A
GTIN (EAN)	4064675444169
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Depth	100 mm	Depth (inches)	3.937 inch
Height	130 mm	Height (inches)	5.118 inch
Width	52 mm	Width (inches)	2.047 inch
Net weight	693 g		

Temperatures

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

Input

AC input voltage range	85...264 V AC (derating at 100 V AC)		
Connection system	Screw connection		
Current consumption in relation to the input voltage	Voltage type	AC	
	Input voltage	230 V	
	Input current	1.14 A	
	Voltage type	AC	
	Input voltage	115 V	
	Input current	2.3 A	
	Voltage type	DC	
	Input voltage	120 V	
Input current	2.22 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	4 A / DI, safety fuse, 6 A, Char. B, circuit breaker, 3...5 A, Char. C circuit breaker		
Wire connection method	Screw connection		

Output

Capacitive load	5.5mF			
Connection system	Screw connection			
Continuous output current @ U _{Nominal}	5 A @ 55 °C, 3.125 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	5 A		
	Output voltage	48 V		
	Mains failure bridge-over time, min.	20 ms		
	Input voltage type	AC		
	Input voltage	230 V		
	Output current	5 A		
	Output voltage	48 V		
	Nominal output current for U _{nom}	5 A @ 55 °C		
	Output power	240 W		
Output voltage, max.	56 V			
Output voltage, min.	36 V			
Overload protection	Yes			
Parallel connection option	yes, max. 3			

Creation date March 28, 2023 4:46:12 AM CEST

Catalogue status 17.03.2023 / We reserve the right to make technical changes.

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Protection against inverse voltage	Yes	
Rated output voltage	48 V DC	
Residual ripple, breaking spikes	≤ 100 mVpp @ full Load	
Wire connection method	Screw connection	

General data

AC failure bridging time @ I_{nom}	> 80 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	Plastic, protective insulation
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.
Operating temperature	-25 °C...70 °C	Power factor (approx.)	0.95 @ 230 V AC, nominal load
Power loss, idling	2 W	Power loss, nominal load	19.2 W
Protection against over-heating	Yes	Protection degree	IP20
Short-circuit protection	Yes	Start-up	≥ -40 °C
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	IEC 61010-1, 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.	12	Conductor cross-section, AWG/kcmil, min.	26
Conductor cross-section, flexible, min.	0.5 mm ²	Conductor cross-section, rigid, max.	6 mm ²
Conductor cross-section, rigid, min.	0.5 mm ²	Connection system	Screw connection
Wire connection cross section, flexible (input), max.	6 mm ²		

Connection data (output)

Conductor cross-section, AWG/kcmil, max.	12	Conductor cross-section, AWG/kcmil, min.	26
Conductor cross-section, flexible, max.	6 mm ²	Conductor cross-section, flexible, min.	0.5 mm ²
Conductor cross-section, rigid, max.	6 mm ²	Conductor cross-section, rigid, min.	0.5 mm ²
Connection system	Screw connection	Number of terminals	4 (++ / -)

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Contact load (NO contact)	max. 30 V DC / 1 A	Floating contact	www.weidmueller.com
LED green	Operating voltage OK	Status indication	Green LED

Approbations

Certificate no. (cULus)	E258476	Institute (cULus)	CULUS
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Classifications

ETIM 6.0	EC002540	ETIM 7.0	EC002540
ETIM 8.0	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

Environmental Product Compliance

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	UKCA Declaration of Conformity EU Declaration of Conformity
Engineering Data	CAD data – STEP
User Documentation	Operating Instructions

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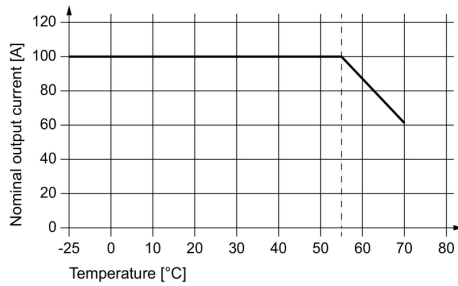
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Drawings

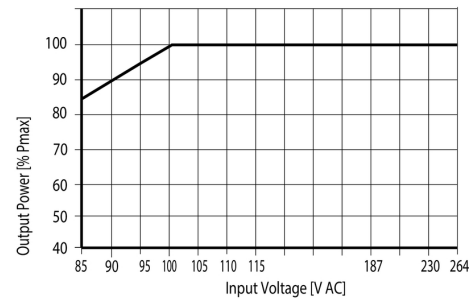
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Derating curve

Derating curve

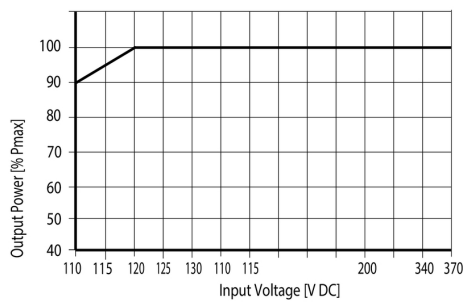


Temperature Derating



AC-Input Derating

Derating curve



DC-Input Derating