

PRO BAS 120W 24V 5A

Weidmüller Interfaces GmbH & Co. KG

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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, 24 V
Order No.	2838440000
Type	PRO BAS 120W 24V 5A
GTIN (EAN)	4064675444138
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	40 mm	Width (inches)	1.575 inch
Net weight	490 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	1.13 A	
	Voltage type	AC	
	Input voltage	115 V	
	Input current	2.02 A	
	Voltage type	DC	
	Input voltage	120 V	
	Input current	1.11 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	40 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, 2...4 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	24 V		
	Mains failure bridge-over time, min.	40 ms		
	Input voltage type	AC		
	Input voltage	230 V		
	Output current	5 A		
	Output voltage	24 V		
	Nominal output current for U _{nom}	5 A @ 55 °C		
	Output power	120 W		
Output voltage, max.	28 V			
Output voltage, min.	22 V			
Overload protection	Yes			
Parallel connection option	yes, max. 3			

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Catalogue status 24.06.2023 / We reserve the right to make technical changes.

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Protection against inverse voltage	Yes	
Rated output voltage	24 V DC	
Residual ripple, breaking spikes	≤ 50 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	90% @ 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.
Power factor (approx.)	0.5 @ 120 V AC, 0.51 @ 230 V AC	Power loss, idling	1.5 W
Power loss, nominal load	14.5 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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