

PRO BAS 240W 24V 10A**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.	2838460000
Type	PRO BAS 240W 24V 10A
GTIN (EAN)	4064675444152
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
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	1.13 A
	Voltage type	AC
	Input voltage	115 V
	Input current	2.29 A
	Voltage type	DC
	Input voltage	120 V
	Input current	2.3 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}	10 A @ 55 °C, 6.25 A @ 70°C	
Mains failure bridge-over time	Mains failure bridge-over time, min.	25 ms
	Input voltage type	AC
	Input voltage	120 V
	Output current	10 A
	Output voltage	24 V
	Mains failure bridge-over time, min.	25 ms
	Input voltage type	AC
	Input voltage	230 V
	Output current	10 A
Output voltage	24 V	
Nominal output current for U _{nom}	10 A @ 55 °C	
Output power	240 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	
Rated output voltage	24 V DC	

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Technical data

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

Earth leakage current, max. 3.5 mA

Humidity

5...95 % rel. humidity, no condensation

Power factor (approx.) 0.95 @ 230 V AC, nominal load

Power loss, nominal load 19.5 W

Protection degree IP20

Status indication Green LED

Degree of efficiency

94% @ 230 V AC

Housing version

Plastic, protective insulation

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 loss, idling

2 W

Protection against over-heating

Yes

Short-circuit protection

Yes

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, input/output 3.5 kV

Protection class I, with PE connection

Insulation voltage output / earth 0.5 kV

Pollution severity

2

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.

12 AWG

Conductor cross-section, flexible, min.

0.5 mm²

Conductor cross-section, rigid, min.

0.5 mm²

Screwdriver blade

0.6 x 3.5

Tightening torque, min.

0.5 Nm

Conductor cross-section, AWG/kcmil, min.

26 AWG

Conductor cross-section, rigid, max.

6 mm²

Number of terminals

3 for L/N/PE

Tightening torque, max.

0.6 Nm

Wire connection cross section, flexible (input), max.

6 mm²

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Technical data

Connection data (output)

Conductor cross-section, AWG/kcmil , max.	12 AWG	Conductor cross-section, AWG/kcmil , min.	26 AWG
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 (++ / -)
Screwdriver blade	0.6 x 3.5	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 _{out} > 0.9 x U _{nominal} min	Trigger voltage, relay	U _{out} > 0.9 x U _{nominal} 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



Approvals MAMID	https://mdcop.weidmueller.com/mediadelivery/rendition/900_319221/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319228/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319260/-T1z1mm-S800/
ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E258476

Downloads

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

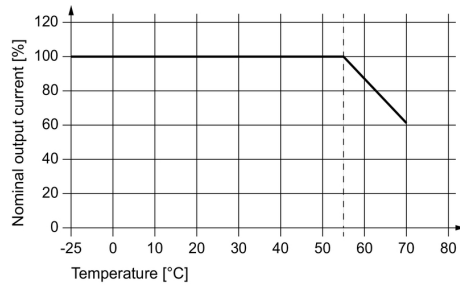
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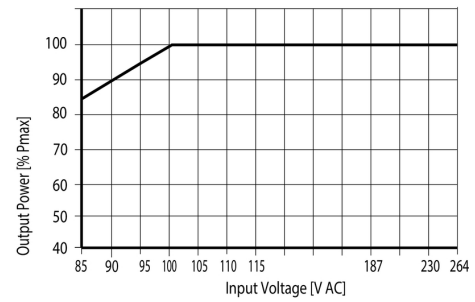
Drawings

Derating curve



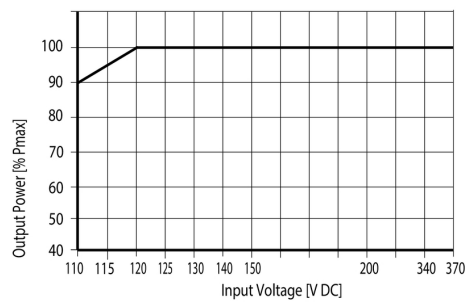
Temperature Derating

Derating curve



AC-Input Derating

Derating curve



DC-Input Derating