

PRO TOP2 240W 24V 10A UW

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



Production processes constantly need to be made more efficient. As well as performance, energy efficiency and sustainability are also playing an increasingly important role in cutting-edge industry. PROtop power supplies combine excellent performance data with exemplary sustainability, which has a positive impact on the productivity of the entire production facility.

PROtop offers a number of advantages that give you a real competitive edge. These include the permanent reduction of energy costs thanks to high efficiencies as well as the increase in plant availability due to long service life and high MTBF values. In addition, there is a high functional density due to the extremely spacesaving designs.

PROtop can achieve significant savings compared to conventional power supply units. Its increased efficiency saves an average of 50 kWh per day in a medium-sized production facility with approx. 100 PROtop power supplies working in three-shift operation. This adds up to over 15,000 kWh a year and also improves the facility's carbon footprint. The service life, which is twice as long as that of standard power supplies, also sustainably reduces the costs of repurchase and exchange.

General ordering data

Version	Power supply, switch-mode power supply unit, 24 V
Order No.	2467250000
Type	PRO TOP2 240W 24V 10A UW
GTIN (EAN)	4050118482157
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	50 mm	Width (inches)	1.969 inch
Net weight	1,050 g		

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-25 °C...75 °C
Operating temperature, min.	-25 °C	Operating temperature, max.	75 °C
Humidity at operating temperature	5...95 %, no condensation		

Input

AC input voltage range	85...550 V AC		
Connection system	PUSH IN		
Current consumption in relation to the input voltage	Voltage type	AC	
	Input voltage	85 V	
	Input current	3.6 A	
DC input voltage range	90...800 V DC		
Frequency range AC	45...65 Hz		
Input fuse (internal)	Yes		
Inrush current	Max. 10 A		
Nominal power consumption	262.3 VA		
Power factor	Power factor typical	0.75	
	Input voltage	400 V	
	Ambient temperature	25 °C	
	Output power	120 W	
Rated input voltage	100 - 500 V AC / 120 - 500 V DC		
Recommended back-up fuse	5 A, DI / 6 A, Char. B / 6 A, Char C		
Surge protection	Varistor		

Output

Connection system	PUSH IN with actuator		
DCL - peak load reserve	Boost duration	15 ms	
	Multiple of the rated current	600 %	
Mains failure bridge-over time	Mains failure bridge-over time, min.	20 ms	
	Input voltage type	AC	
	Input voltage	110 V	
	Output current	10 A	
	Output voltage	24 V	
Nominal output current for U_{nom}	10 A @ 60 °C		
Output power	240 W		
Output voltage, max.	28.8 V		
Output voltage, min.	22.5 V		
Output voltage, note	adjustable with potentiometer or communication module		
Parallel connection option	yes, max 10		
Protection against inverse voltage	Yes		
Ramp-up time	≤ 100 ms		
Rated output voltage	24 V DC ± 1 %		
Residual ripple, breaking spikes	< 50 mV _{ss} @ U_{Nenn} , Full Load		

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Technical data
General data

Conformal coating	No	Degree of efficiency	91.5%
Derating	> 60°C (2.5% / 1°C)	Earth leakage current, max.	3.5 mA
Housing version	Metal, corrosion resistant	Power loss, idling	5 W
Power loss, nominal load	18.1 W	Protection degree	IP20
Start-up	≥ -40 °C	Surge voltage category	II, III

EMC / shock / vibration

Interference immunity test acc. to	EN 55032:2015, EN 61000-3-2:2019, EN 61000-6-3:2007/A1:2011, EN 61000-6-4:2007/A1:2011, EN 61000-3-3:2013+A1:2019, EN 55035:2017, EN 61000-6-1:2019, EN 61000-6-2:2019, IEC 61000-4-2:2008, IEC 61000-4-3:2006+A1:2007+A2:2010, IEC 61000-4-4:2012, IEC 61000-4-5:2014, IEC 61000-4-6:2013, IEC 61000-4-8:2009, IEC 61000-4-11:2004	Noise emission in accordance with EN55032	
Shock resistance IEC 60068-2-27	30 g in all directions	Vibration resistance IEC 60068-2-6	Class B 2.3 g (on DIN rail), 4 g (with direct mounting)

Insulation coordination

Insulation voltage input / earth	3.2 kV	Insulation voltage output / earth	0.5 kV
Insulation voltage, input/output	3.5 kV	Pollution severity	2
Protection class	I, with PE connection	Surge voltage category	II, III

Electrical safety (applied standards)

Electrical machine equipment	Acc. to EN60335-1	For use with electronic equipment	Acc. to EN50178
Protection against dangerous shock currents	Acc. to VDE0106-101	Protective separation / protection against electrical shock	VDE0100-410 / acc. to DIN57100-410
Safety extra-low voltage	SELV acc. to IEC 60950-1, PELV according to EN 60204-1	Safety transformers for switch-mode power supplies	According to EN 61558-2-17

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.	2.5 mm ²
Conductor cross-section, rigid, min.	0.5 mm ²	Connection system	PUSH IN
Wire connection cross section, flexible (input), max.	2.5 mm ²		

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Technical data

Connection data (output)

Conductor cross-section, AWG/kcmil , max.	12	Conductor cross-section, AWG/kcmil , min.	20
Conductor cross-section, flexible , max.	2.5 mm ²	Conductor cross-section, flexible , min.	0.2 mm ²
Conductor cross-section, rigid , max.	2.5 mm ²	Conductor cross-section, rigid , min.	0.2 mm ²
Connection system	PUSH IN with actuator	Number of terminals	4 (++ / -)

Connection data (signal)

Wire connection method	Screw connection	Wire cross-section, AWG/kcmil , max.	16
Wire cross-section, AWG/kcmil , min.	28	Wire cross-section, solid , max.	1.5 mm ²
Wire cross-section, solid , min.	0.2 mm ²		

Signalling

Floating contact	LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Status relay (max. load)	Yes Output voltage OK (30 V DC / 1 A)	

Approbations

Certificate No. (CSA)	80043367	Institute (CSA)	CSA
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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	27049002

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
SCIP	6d8cdf22-8230-4af8-86c8-3558c716666d

Approvals

Approvals



ROHS	Conform
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Technical data**Downloads**

Approval/Certificate/Document of Conformity	CSA 61010-1 Certificate.pdf C1D2 Certificate.pdf Declaration of Conformity
Engineering Data	CAD data – STEP
User Documentation	Instruction sheets
Catalogues	Catalogues in PDF-format
Brochures	Produkt Information PROTOP DE Produkt Information PROTOP EN

Data sheet

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Drawings

