

PRO TOP2 120W 24V 5A 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.	2467230000
Type	PRO TOP2 120W 24V 5A UW
GTIN (EAN)	4050118482133
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	39 mm	Width (inches)	1.535 inch
Net weight	920 g		

Temperatures

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

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	2 A
DC input voltage range	90...800 V DC	
Frequency range AC	45...65 Hz	
Input fuse (internal)	Yes	
Inrush current	max. 5 A	
Nominal power consumption	134.8 VA	
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	5 A
	Output voltage	24 V
Nominal output current for U _{nom}	5 A @ 60 °C	
Output power	120 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, for redundancy and power increase (with ORing MOSFET)	
Protection against inverse voltage	Yes	
Ramp-up time	≤ 100 ms	
Rated output voltage	24 V DC ± 1 %	
Residual ripple, breaking spikes	<50 mVss @ U _{Nenn} , Full Load	

General data

Conformal coating	No
Degree of efficiency	89%
Derating	> 60°C (2.5% / 1°C)
Earth leakage current, max.	3.5 mA
Housing version	Metal, corrosion resistant

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Power factor	Power factor typical	0.4
	Input voltage	400 V
	Ambient temperature	25 °C
	Output power	120 W
Power loss, idling	5 W	
Power loss, nominal load	14.8 W	
Protection degree	IP20	
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 AWG	Conductor cross-section, AWG/kcmil , min.	26 AWG
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
Number of terminals	3 for L/N/PE	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 AWG	Conductor cross-section, AWG/kcmil , min.	20 AWG
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 cross-section, flexible (signal), max.	1.5 mm ²	Wire connection cross-section, flexible (signal), min.	0.2 mm ²
Wire connection method	Screw connection	Wire cross-section, AWG/kcmil , max.	16
Wire cross-section, AWG/kcmil , min.	28 mm ²	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
	Yes	
Status relay (max. load)	Output voltage OK (30 V DC / 1 A)	

Classifications

ETIM 6.0	EC002540	ETIM 7.0	EC002540
ETIM 8.0	EC002540	ETIM 9.0	EC002540
ETIM 10.0	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
ECLASS 15.0	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
SCIP	6d8cdf22-8230-4af8-86c8-3558c716666d

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Approvals

Approvals



Approvals MAMID

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ROHS

Conform

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[C1D2 Certificate](#)
[DoP EN54.4](#)
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[UK Conformity Assessed](#)

Engineering Data

[CAD data – STEP](#)
[Application notes – PROtop-topGUARD_IO-Link_CODESYS](#)
[Application notes – PROtop_topGUARD_IO-Link_Twincat](#)

User Documentation

[Instruction sheets](#)

Catalogues

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Brochures

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Drawings

