

PRO TOP2 120W 24V 5A UW EX**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

The fully electronic input circuit of our UW power supplies with an ultra-wide input voltage range of 85 – 550 V AC or 90 – 800 V DC allows operation on all supply networks in the world. Device classes up to 240 W ensure the basic supply of small to medium control systems. The integrated ORing MOSFETs of the PROtop family allow direct parallel connection to increase performance as well as the design of redundant power supply systems.

General ordering data

Version	Power supply, switch-mode power supply unit
Order No.	2467240000
Type	PRO TOP2 120W 24V 5A UW EX
GTIN (EAN)	4050118482140
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
Net weight	920 g	Width	39 mm
Width (inches)	1.535 inch		

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-40 °C...75 °C
Humidity at operating temperature	5...100 % no condensation		

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Input

AC input voltage range	85...550 V AC	
Connection system	Clamping yoke	
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	
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	Clamping yoke connection	
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	22.5...28.8 V	
Output voltage, max.	28.8 V	
Output voltage, min.	22.5 V	
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 mVss @ U _{Nenn} , Full Load	

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General data

Conformal coating	Yes	Degree of efficiency	89%
Derating	> 60°C (2.5% / 1°C)	Earth leakage current, max.	3.5 mA
Housing version	Metal, corrosion resistant	MTBF	> 1.000.000 h according IEC 1709 (SN29500)
Mounting position, installation notice	Horizontal on DIN rail TS 35, top and bottom 50 mm clearance for free air flow, 10 mm clearance to neighbouring active subassemblies with full load, 5 mm with passive neighbouring subassemblies, direct row mounting with 90% rated load	Operating temperature	-40 °C...75 °C
Power factor (approx.)	> 0.8 @ 230 V AC, > 0.6 @ 400 V AC	Short-circuit protection	Yes
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

Humidity at operating temperature	5...100 % no condensation	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 according to EN 62368-1, PELV according to EN 60204-1	Safety transformers for switch-mode power supplies	According to EN 61558-2-17

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Technical data

Connection data (input)

Conductor cross-section, AWG/kcmil , max.	12	Conductor cross-section, AWG/kcmil , min.	30
Conductor cross-section, flexible , min.	0.2 mm ²	Conductor cross-section, rigid , max.	4 mm ²
Conductor cross-section, rigid , min.	0.2 mm ²	Connection system	Clamping yoke
Wire connection cross section, flexible (input), max.	4 mm ²		

Connection data (output)

Conductor cross-section, AWG/kcmil , max.	12	Conductor cross-section, AWG/kcmil , min.	30
Conductor cross-section, flexible , max.	4 mm ²	Conductor cross-section, flexible , min.	0.2 mm ²
Conductor cross-section, rigid , max.	4 mm ²	Conductor cross-section, rigid , min.	0.2 mm ²
Connection system	Clamping yoke connection	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)	

Classifications

ETIM 6.0	EC002540	ETIM 7.0	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

Approvals

ROHS	Conform
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Downloads

Engineering Data	STEP
User Documentation	Instruction sheets
Brochure/Catalogue	Catalogues in PDF-format

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Drawings

