

PROtop
PRO TOP1 960W 48V 20A**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

www.weidmueller.com



High-end power supplies must perform efficiently and reliably, even in challenging industrial environments. This requires high power reserves, a long service life and optimal protection against overvoltage, vibration and extreme temperature conditions.

New DCL technology gives PROtop an outstanding dynamic range. This can be used for the reliable triggering of circuit breakers or for powerful motor starts.

General ordering data

Type	PRO TOP1 960W 48V 20A
Order No.	2466920000
Version	Power supply, switch-mode power supply unit, 48 V
GTIN (EAN)	4050118481600
Qty.	1 pc(s).

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Technical data
Dimensions and weights

Width	124 mm	Width (inches)	4.882 inch
Height	130 mm	Height (inches)	5.118 inch
Depth	125 mm	Depth (inches)	4.921 inch
Net weight	3,382 g		

Temperatures

Humidity at operating temperature	5...95 %, no condensation	Operating temperature, max.	70 °C
Operating temperature, min.	-25 °C	Storage temperature, max.	85 °C
Storage temperature, min.	-40 °C	Operating temperature	-25 °C...70 °C
Storage temperature	-40 °C...85 °C		

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Input

AC input voltage range	85...277 V AC	Connection system	PUSH IN
DC input voltage range	80 ... 410 V DC	Dielectric strength	max. 300 V AC ≤ 15 s
Frequency range AC	45...65 Hz	Input fuse (internal)	Yes
Inrush current	max. 15 A	Rated input voltage	100 - 240 V AC / 120 - 340 V DC
Surge protection	Varistor		

output

DCL - peak load reserve	150 % (5 s); 400 % (15 ms)	Connection system	PUSH IN
Mains failure bridge-over time	> 20 ms @ 115V AC/ 230 VAC	Output power	960 W
Output voltage	48 48 V	Output voltage	45...56 V
Parallel connection option	Passive Current Sharing	Protection against inverse voltage	Yes
Ramp-up time	≤ 100 ms	Rated (nominal) output current @ U _{Nom}	20 A @ 60 °C
Rated output voltage	48 V DC ± 1 %	Reserve capacity @ U _{Rated}	130% permanent at ≤ 40°C
Residual ripple, breaking spikes	< 100 mV _{pp}	Triggerable circuit breakers	C2, C4, C6, B6, B10, B2, B4

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Technical data

General data

AC failure bridging time @ I _{Nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC	Degree of efficiency	94%
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	-25 °C...70 °C
Power factor (approx.)	> 0.9	Power loss, idling	10 W
Power loss, nominal load	61.3 W	Protection degree	IP20
Series switching capability	Yes	Short-circuit protection	Yes, internal
Surge voltage category	III		

EMC / shock / vibration

Noise emission in accordance with EN55032	Class B	Vibration resistance IEC 60068-2-6	2.3 g (on DIN rail), 4 g (with direct mounting)
Interference immunity test acc. to	EN 55032:2015, EN 55024:2010/A1:2015, EN 55035:2017, EN 61000-3-2:2014, EN 61000-3-3:2013, EN 61000-6-1:2007, EN 61000-6-2:2005, EN 61000-6-3:2007/ A1:2011, EN 61000-6-4:2007/ A1:2011	Shock resistance IEC 60068-2-27	30 g in all directions

Insulation coordination

Class of protection	I, with PE connection	Humidity at operating temperature	5...95 %, no condensation
Insulation voltage input / earth	4 kV	Insulation voltage output / earth	0.5 kV
Insulation voltage, input/output	4 kV	Pollution severity	2
Surge voltage category	III		

Electrical safety (applied standards)

Electrical machine equipment	Acc. to EN60204	For use with electronic equipment	Acc. to EN50178 / VDE0160
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 EN60950, PELV acc. to EN60204	Safety transformers for switch-mode power supplies	nach EN61558-2-16

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Technical data
Connection data (input)
Conductor cross-section, AWG/kcmil ,
max.

4

Conductor cross-section, flexible , min.

0.75 mm²

Conductor cross-section, rigid , min.

0.75 mm²

Number of terminals

3 for L/N/PE

Wire connection cross section, flexible
(input), max.16 mm²Conductor cross-section, AWG/kcmil ,
min.

20

Conductor cross-section, rigid , max.

16 mm²

Connection system

PUSH IN

Screwdriver blade

0.6 x 3.5

Connection data (output)
Conductor cross-section, AWG/kcmil ,
max.

4

Conductor cross-section, flexible , max.

16 mm²

Conductor cross-section, rigid , max.

16 mm²

Connection system

PUSH IN

Screwdriver blade

0.6 x 3.5

Conductor cross-section, AWG/kcmil ,
min.

20

Conductor cross-section, flexible , min.

0.75 mm²

Conductor cross-section, rigid , min.

0.75 mm²

Number of terminals

5 (+ + / - -)

Connection data (signal)
Wire connection cross-section, flexible
(signal), max.1.5 mm²

Wire connection method

PUSH IN

Wire cross-section, AWG/kcmil , min.

26

Wire cross-section, solid , min.

0.14 mm²Wire connection cross-section, flexible
(signal), min.0.14 mm²

Wire cross-section, AWG/kcmil , max.

16

Wire cross-section, solid , max.

1.5 mm²
Signalling

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

Classifications

ETIM 6.0

EC002540

eClass 6.2

27-04-90-04

eClass 9.1

27-04-07-01

Product information

Descriptive text ordering data

Current technical data at catalog.weidmueller.com
Approvals

ROHS

Conform

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Technical data

Downloads

Approval/Certificate/Document of Conformity	Declaration of Conformity
Engineering Data	EPLAN
Engineering Data	STEP STEP
User Documentation	IS PRO TOP1 960W 48V 20A Operating instructions

PROtop PRO TOP1 960W 48V 20A

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Drawings

