

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com





Illustration similar

Production processes constantly need to be made more efficient. As well as performance, energy efficiency and ustainability 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 mediumsized 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, 48 V
Order No.	<u>2466920000</u>
Туре	PRO TOP1 960W 48V 20A
GTIN (EAN)	4050118481600
Qty.	1 items

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Technical data

Approvals























ROHS	Conform
UL File Number Search	<u>UL Website</u>
Certificate no. (cULus)	E258476
Certificate no. (cULusEX)	E470829

Dimensions and weights

Depth	125 mm	Depth (inches)	4.9212 inch
Height	130 mm	Height (inches)	5.1181 inch
Width	124 mm	Width (inches)	4.8819 inch
Net weight	3000 g		

Temperatures

Storage temperature	-40 °C85 °C	Operating temperature	-25 °C70 °C
Humidity at operating temperature	595 %, no condensation	Start-up	≥ -40 °C

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

Input

Connection system	PUSH IN		
AC input voltage range	85277 V AC		
Recommended back-up fuse	16 A, DI / 16 A, Char. B / 16 A, Char C		
Frequency range AC	4565 Hz		
Rated input voltage	110240 V AC / 120340 V DC		
Surge protection	Varistor		
Input fuse (internal)	Yes		
DC input voltage range	80 410 V DC		
Inrush current	max. 15 A		
Current consumption in relation to the	Voltage type	AC	
input voltage	Input voltage	100 V	
	Input current	12 A	
	Voltage type	DC	
	Input voltage	120 V	
	Input current	12 A	
Input electric strength, max.	AC/DC		
Nominal power consumption	1021 VA		

Output





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Mains failure bridge-over time	> 20 ms @ 115V AC/ 230 VAC		
Connection system	PUSH IN		
Rated output voltage	48 V DC ± 1 %		
Residual ripple, breaking spikes	<100 mVPP		
Parallel connection option	Yes, for redundancy and power increas	e (with ORing MOSFET)	
Output voltage, max.	56 V		
Output voltage, min.	45 V		
Output current, max.	20 A		
Output voltage, note	adjustable with potentiometer or comunication module		
Nominal output current for Unom	20 A @ 60 °C		
Protection against inverse voltage	Yes		
DCL - peak load reserve	Boost duration	5 s	
	Multiple of the rated current	150 %	
	Boost duration	15 ms	
	Multiple of the rated current	400 %	
Ramp-up time	≤ 100 ms		

General data

Power factor (approx.)	> 0.9	AC failure bridging time @ Inom	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
Degree of efficiency	94%	Protection degree	IP20
Surge voltage category	III, II	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 subassemblies.
Housing version	Metal, corrosion resistant	Derating	> 60°C (2.5% / 1°C)
Earth leakage current, max.	3.5 mA	Conformal coating	No
Power loss, idling	10 W	Short-circuit protection	Yes, internal
Power loss, nominal load	61.3 W		

EMC / shock / vibration

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

Insulation coordination

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





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Electrical machine equipment	Acc. to EN60204	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 61558-2-16		
Connection data (input)	,		
Common attinum and and	DUCLUM	Normalia and Administration of the second	2 f I /NI /DE
Connection system Screwdriver blade	PUSH IN 0.6 x 3.5	Number of terminals Conductor cross-section, AWG/kcmil, max.	3 for L/N/PE 4 AWG
Conductor cross-section, AWG/kcmil , min.	20 AWG	Wire connection cross section, flexible (input), max.	16 mm²
Conductor cross-section, flexible , min.	0.75 mm ²	Conductor cross-section, rigid , max.	16 mm ²
Conductor cross-section, rigid , min.	0.75 mm ²		
Connection data (output)			
	Bulgaria		
Connection system	PUSH IN	Number of terminals	5 (+ + /)
Conductor cross-section, AWG/kcmil , max.	4 AWG	Conductor cross-section, AWG/kcmil , min.	20 AWG
Conductor cross-section, flexible, max. Conductor cross-section, rigid, max.	16 mm ²	Conductor cross-section, flexible, min.	0.75 mm ²
Screwdriver blade	0.6 x 3.5	Conductor cross-section, rigid, min.	0.75 111111-
Connection data (signal)	0.0 X 0.0		
Connection data (Signar)			
Wire connection cross-section, flexible (signal), max.	1.5 mm ²	Wire connection method	PUSH IN
Wire cross-section, AWG/kcmil, max.	16	Wire cross-section, solid, min.	0.14 mm ²
Wire cross-section, solid , max.	1.5 mm ²	Wire connection cross-section, flexible (signal), min.	0.14 mm ²
Wire cross-section, AWG/kcmil , min.	26 mm ²		
Signalling			
Floating contact	Yes	LED green/red	Green: Operation (failure- free), Flashing green: advance warning I>90%, Green/red flashing: outpu switched off (switch- off mode), Flashing red: overload/error
Status relay (max. load)	Output voltage OK (30 V DC / 1 A)		
Guarantee			
Time interval	3 years		
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

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Technical data

ECLASS 15.0 27-04-07-01

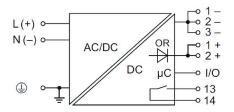


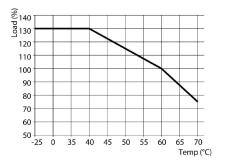
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Drawings







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Accessories

End bracket









Weidmüller's range of products includes end brackets that guarantee a permanent, reliable mounting on the terminal rail and prevent sliding. Versions with and without screws are available. The end brackets include marking options, also for group markers, and also a test plug holder.

General ordering data

Туре	WEW 35/1 V0 GF SW	Version
Order No.	1478990000	End bracket, black, TS 35, V-0, Wemid, Width: 12 mm, 130 °C
GTIN (EAN)	4050118286892	
Qty.	50 ST	
Туре	WEW 35/2 V0 GF SW	Version
Type Order No.	WEW 35/2 V0 GF SW 1479000000	Version End bracket, black, TS 35, V-0, Wemid, Width: 8 mm, 130 °C

Slotted screwdriver

50 ST

Qty.



VDE insulated screwdriver sets, for working on live parts up to 1000 V AC and 1500 V DC, DIN EN 60900. IEC 900. Each piece is "GS" safety tested. Blade made from fully hardened, high-alloy chromium-vanadium-molybdenum steel, gun-metal finish.

General ordering data

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Туре	SDIS SLIM 0.6X3.5X100	Version
Order No.	<u>2749610000</u>	Mounting tool, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade
GTIN (EAN)	4050118896350	thickness (A): 0.6 mm
Qty.	1 ST	

Installation



Mounting accessory for Weidmüller Power Supplys.

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Accessories

General o	rdering	data
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Туре	PRO TOP BRACKETS	Version
Order No.	2575900000	Mounting foot
GTIN (EAN)	4050118683059	
Qty.	1 ST	
Туре	MTA 45 MF	Version
Order No.	1251310000	Electronics housings, Mounting flange
GTIN (EAN)	4050118042719	
Qty.	1 ST	
Туре	CP A WALLADAPTER 30 MM	Version
Order No.	<u>1461870000</u>	
GTIN (EAN)	4050118268225	
Qty.	1 ST	

Communication modules



Weidmüller's plug-in communication modules enable individual components to exchange relevant data with the cloud. This lays the foundation for targeted process optimization using condition monitoring and remote controllability - factors that play a decisive role in increasing efficiency, quality, process stability and availability can contribute. The communication modules are designed according to IP20 protected, can be operated without tools and can be flexibly adapted to different customisable communication protocols.

General ordering data

Туре	PRO COM CAN OPEN	Version
Order No.	2467320000	Communication module
GTIN (EAN)	4050118482225	
Qty.	1 ST	
Туре	PRO COM CAN OPEN EX	Version
Order No.	<u>2467340000</u>	Communication module
GTIN (EAN)	4050118481822	
Qty.	1 ST	
Туре	PRO COM DISPLAY 7S	Version
Order No.	2466960000	Communication module
GTIN (EAN)	4050118481808	
Qty.	1 ST	
Туре	PRO COM IO-LINK	Version
Order No.	<u>2587360000</u>	Communication module
GTIN (EAN)	4050118599152	
Qty.	1 ST	

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Accessories

BCF 3.81/180F



PUSH IN - Weidmüller's innovative connection system simplifies the wire connection process.

The benefits for users and applications:

- High packaging density due to very low component height. Simply insert the prepared wire - finished
- High component density with the compact SCDN / SCDN-THR two-tier pin header
- Simplified processing due to integrated push buttons for opening the clamping unit
- Intuitive handling since the wire-entry area and handling area are clearly separated
- tool-free locking and releasing when using Weidmüller's patented release latch (LR)

The Weidmüller plug-in connectors, pitch 3.81 mm (0.15 inch), are compatible with the layout of customary plug-in connectors, can be coded and provide space for printing.

General ordering data

	- · · · J · · · · ·	
Туре	BCF 3.81/03/180F SN BK	Version
Order No.	<u>1347850000</u>	PCB plug-in connector, female plug, 3.81 mm, Number of poles: 3,
GTIN (EAN)	4050118152517	180°, PUSH IN with push button, Clamping range, max. : 1.5 mm ² ,
Qty.	50 ST	Box