

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 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>2467050000</u>
Туре	PRO TOP1 960W 48V 20A CO
GTIN (EAN)	4050118481952
Qty.	1 items
Delivery status	This article will no longer be available in the future.
Available until	2025-10-30T00:00:00+01:00

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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	139 mm	Width (inches)	5.4724 inch
Net weight	3382 g		

Temperatures

Storage temperature	-40 °C85 °C	Operating temperature	-40 °C70 °C
Humidity at operating temperature	5100 % no condensation		

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	Clamping yoke	
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	

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0.5 kV

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Technical data

Output			
Output power	960 W		
Mains failure bridge-over time	> 20 ms @ 115V AC/ 230 \	/ΔC	
Connection system	Clamping yoke connection		
Rated output voltage	48 V DC ± 1 %		
Residual ripple, breaking spikes	<100 mVPP		
Parallel connection option		wer increase (with ORing MOSFET)	
Output voltage, max.	56 V	wer merease (with orting Woor E1)	
Output voltage, min.	45 V		
Output current, max.	20 A		
Output voltage, note	adjustable with potentiome	ter or comunication module	
Nominal output current for Unom	20 A @ 60 °C	ici di comunication modulo	
Protection against inverse voltage	Yes		
OCL - peak load reserve	Boost duration	5 s	
FOL POUR IOUGI TOOGIVO	Multiple of the rated currer		
	Boost duration	15 ms	
	Multiple of the rated currer		
Ramp-up time	≤ 100 ms		
General data			
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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 neighbourir subassemblies.
Housing version	Metal, corrosion resistant	Derating	> 60°C (2.5% / 1°C)
Earth leakage current, max.	3.5 mA	Conformal coating	Yes
Power loss, idling	10 W	Short-circuit protection	Yes, internal
Power loss, nominal load	61.3 W	One of the control of	. oo,toma.
EMC / shock / vibration			
Shock resistance IEC 60068-2-27	30 g in all directions	Noise emission in accordance with EN55032	Class B
nterference 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
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Insulation voltage input / earth

3.2 kV

Catalogue status / Drawings

Insulation voltage output / earth





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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)			
Connection system	Clamping yoke	Number of terminals	3 for L/N/PE
Screwdriver blade	0.8 x 4.0	Conductor cross-section, AWG/kcmil , max.	10 AWG
Conductor cross-section, AWG/kcmil , min.	26 AWG	Wire connection cross section, flexible (input), max.	4 mm²
Conductor cross-section, flexible , min.	0.22 mm ²	Conductor cross-section, rigid, max.	6 mm ²
Conductor cross-section, rigid , min.	0.18 mm ²		
Connection data (output)			
Connection system	Clamping yoke connection	Number of terminals	5 (+ + /)
Conductor cross-section, AWG/kcmil , max.	6 AWG	Conductor cross-section, AWG/kcmil , min.	22 AWG
Conductor cross-section, flexible , max.	16 mm ²	Conductor cross-section, flexible, min.	6 mm ²
Conductor cross-section, rigid , max.	16 mm ²	Conductor cross-section, rigid, min.	0.2 mm ²
Screwdriver blade	1.0 x 5.5		
Connection data (signal)			
Wire connection cross-section, flexible (signal), max.	1.5 mm²	Wire connection method	Screw connection
Wire cross-section, AWG/kcmil , max.	16	Wire cross-section, solid , min.	0.2 mm ²
Wire cross-section, solid , max.	1.5 mm ²	Wire connection cross-section, flexible (signal), min.	0.2 mm ²
Wire cross-section, AWG/kcmil , min.	28 mm ²		
Signalling			
Floating contact	Yes	LED green/red	Green: Operation (failure-
		3 7	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		
Classifications			
ETIM 6 O	EC002E40	ETIM 7.0	EC002540
ETIM 6.0	EC002540	ETIM 7.0	EC002540
ETIM 10.0	EC002540	ECLASS 0.0	EC002540
ECLASS 0.1	EC002540	ECLASS 9.0	27-04-07-01
ECLASS 9.1 ECLASS 11.0	27-04-07-01 27-04-07-01	ECLASS 10.0 ECLASS 12.0	27-04-07-01 27-04-07-01
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Technical data

ECLASS 15.0

27-04-07-01

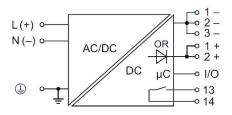


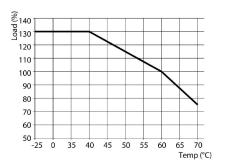
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Drawings







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Accessories

End bracket







GTIN (EAN)

Qty.



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
Order No.	1479000000	End bracket, black, TS 35, V-0, Wemid, Width: 8 mm, 130 °C

Slotted screwdriver

50 ST

4050118286779



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	ordering	data
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Type	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.	2467340000	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.	2587360000	Communication module
GTIN (EAN)	4050118599152	
Qty.	1 ST	



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Accessories

BCZ 3.81/270F



Female socket connectors with clamping-yoke screw system for connecting wires.

Three wire-outlet directions are available and provide flexible connection-level design options:

- 180° wire parallel to plugging direction
- 90° wire perpendicular and above plugging direction
- 270° wire perpendicular and below plugging direction There are three housing shapes, covering many different requirements, to choose from:
- Standard housing without flange
- Flange with screw (F)
- Flange featuring Weidmüller's patented release latch (LR) for lock-and-release latching with no strain and no tools needed.

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of customary connectors and offer space for labelling and coding.

General ordering data

Туре	BCZ 3.81/03/270F SN BK	Version
Order No.	<u>2569240000</u>	PCB plug-in connector, female plug, 3.81 mm, Number of poles: 3,
GTIN (EAN)	4050118592436	180°, Clamping yoke connection, Clamping range, max. : 1.5 mm²,
Qty.	50 ST	Вох

BUZ 10.16HP/180SF



High-performance female header with the proven, 100% maintenance-free Weidmüller steel clamping yoke. Side-by-side mounting without sacrificing any poles or with patented multifunction flange for secure, fast fixing without tools. Maximum connection and operating reliability thanks to a mating profile that prevents incorrect connection, unique coding diversity, protection against incorrect wiring and 4-point silver contact.

General ordering data

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Туре	BUZ 10.16HP/04/180SF AG	Version
Order No.	<u>1924720000</u>	PCB plug-in connector, female plug, 10.16 mm, Number of poles: 4,
GTIN (EAN)	4032248564873	180°, Clamping yoke connection, Clamping range, max. : 16 mm²,
Qty.	20 ST	Box

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