FP PRO TOP3 24/20 2PIOL

PROtop power supplies offer a wide range of functions with many advantages.

These include high energy efficiency, outstanding power reserves, high reliability and optional communication capability. PROtop also supports direct parallel connection with load balancing. With the possibility of integrating our PROtop power supplies into the FieldPower® system, the entire range of functions becomes available in the field – with all the advantages of the FieldPower® modular system.

General ordering data

Version	FieldPower® power supply unit, IP65, in closed state, in complete state, 20A, 24 V, DC, IDC terminal, PUSH IN, M12 A-coded (IO-Link)
Order No.	2743460000
Type	FP PRO TOP3 24/20 2PIOL
GTIN (EAN)	4050118892130
Qty.	1 items

FP PRO TOP3 24/20 2PIOL

Technical data

Approvals

Approvals	
ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E258476

Dimensions and weights

Depth	220 mm	Depth (inches)	8.6614 inch
Height	196 mm	Height (inches)	7.7165 inch
Width	196 mm	Width (inches)	7.7165 inch
Net weight	4256 g		

Temperatures

Storage temperature	-10 °C...60 °C	Operating temperature	-25 °C...45 °C
Operating temperature range	-25...50 °C	Start-up	≥ -40 °C
Humidity	35...85%, non condensing and non freezing		

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c, 7a, 7cI
REACH SVHC	Lead 7439-92-1, Potassium perfluorobutane sulfonate 29420-49-3
SCIP	7645f3b1-6db9-495d-9e21-ab1d894aff05

Input

AC input voltage range	3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC	Recommended back-up fuse	3 - 5 A, Char C
Frequency range AC	45...65 Hz	Type of connection	IDC terminal, PUSH IN
Wire connection method	IDC terminal, PUSH IN	Surge protection	Varistor
Input fuse (internal)	5 A F (6.3 x 32 mm)	AC current consumption	1,5 A @ 400 V DC / 2 A @ 320 V AC
DC input voltage range	450...800 V DC (max. 500 V DC acc. to UL508)	Inrush current	Max. 10 A

Output

Output power	480 W	Rated output voltage	24 V DC ± 1 %
Output voltage, max.	28.8 V	Output voltage, min.	22.5 V
Wire connection method	IDC terminal, PUSH IN	Surge protection	Varistor
Output voltage type	DC	Output voltage, note	(adjustable via potentiometer)
Nominal output current for Unom	20 A @ 60 °C	Switch-on delay	1 s
Output current	20A	Adjustable rated current	No
Output voltage	24 V	Triggering characteristic	see characteristic curve

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Technical data

General data

Installation advice	Lid screws included	Humidity	35...85%, non condensing and non freezing
Standards	UL 508	Protection degree	IP65, in closed state, in complete state
Surge voltage category	III, II	Short-circuit protection	Yes, internal

Insulation coordination

Surge voltage category	III, II

Input

AC input voltage range	3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC	Recommended back-up fuse	3 - 5 A, Char C
Frequency range AC	45...65 Hz	Surge protection	Varistor
AC current consumption	1,5 A @ 400 V DC / 2 A @ 320 V AC	DC input voltage range	450...800 V DC (max. 500 V DC acc. to UL508)
Inrush current	Max. 10 A	Input fuse (internal)	5 A F (6.3 x 32 mm)

Output

Output power	480 W	Output voltage, max.	28.8 V
Output voltage, min.	22.5 V	Output voltage type	DC
Output voltage, note	(adjustable via potentiometer)	Switch-on delay	1 s
Output current	20A	Adjustable rated current	No
Output voltage	24 V	Triggering characteristic	see characteristic curve
Rated output voltage	24 V DC ± 1 %	Nominal output current for Unom	20 A @ 60 °C

Clamping capacity

Connection data - contact element Branch / Feed-in	Wire connection method	PUSH IN	
	Blade size of operating tool	0.6 x 3.5 mm	
	Stripping length	14.00 mm	
	Number of poles	5	
	Conductor connection cross-section, solid, max.	6 mm²	
	Conductor connection cross-section, solid, min.	0.50 mm²	
	Conductor connection cross-section, stranded, max.	6.00 mm²	
	Conductor connection cross-section, stranded, min.	0.50 mm²	
	Conductor connection cross-section, finely stranded, max.	10.00 mm²	
	Conductor connection cross-section, finely stranded, min.	0.50 mm²	
	Conductor connection cross-section, finest stranded, max.	6.00 mm²	
	Conductor connection cross-section, finest stranded, min.	0.50 mm²	
	Conductor connection cross-section with wire end ferrule	Type of wire end ferrule	12 mm with plastic collar
		Standard	DIN 46228/1
		Cross-section, min.	0.5 mm²
		Cross-section, max.	6 mm²
		Type of wire end ferrule	8 mm with plastic collar
		Standard	DIN 46228/4
		Cross-section, min.	0.5 mm²

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Technical data

		Cross-section, max.	6 mm²
		Standard	DIN 46228/4
		Cross-section, min.	0.5 mm²
		Cross-section, max.	6 mm²
		Type of wire end ferrule	Twin wire-end ferrules
		Cross-section, min.	0.5 mm²
		Cross-section, max.	6 mm²
Connection data - contact element power bus	Wire connection method	Insulation displacement connection (IDC)	
	Blade size of operating tool	0.6 x 3.5 mm	
	Number of poles	5	
	Conductor connection cross-section, solid, max.	6 mm²	
	Conductor connection cross-section, solid, min.	1.50 mm²	
	Conductor connection cross-section, stranded, max.	6.00 mm²	
	Conductor connection cross-section, stranded, min.	2.50 mm²	
	Conductor connection cross-section, finely stranded, max.	6.00 mm²	
	Conductor connection cross-section, finely stranded, min.	2.50 mm²	
	Conductor connection cross-section, finest stranded, max.	6.00 mm²	
	Conductor connection cross-section, finest stranded, min.	2.50 mm²	

Rated data acc. to IEC

Rated data acc. to IEC for plug-in connector	Voltage type	DC
	Standard	IEC 60947-7-1, IEC 60947-7-2, IEC 61984
	Rated voltage	690 V
	Rated impulse withstand voltage	8.00 kV
	Rated current (3 loaded poles)	32 A
	Rated current (4 loaded poles)	25 A
Rated data acc. to IEC for contact element	Voltage type	AC, DC
	Standard	IEC 60947-7-1, IEC 60947-7-2
	Rated voltage	800 V
	Rated impulse withstand voltage	8.00 kV
	Rated current (3 loaded poles)	41 A
	Rated current (4 loaded poles)	25 A
Rated data acc. to IEC for fuse plug	Voltage type	AC
	Number of phases	3
	Standard	IEC 61984, IEC 60947-7-3
	Rated voltage	36 V
	Rated impulse withstand voltage	6.00 kV
	Rated current	12 A

Rated data acc. to UL

Standards	UL 508	
Rated data acc. to UL for contact element	Standard	UL 1059
	Note	for use with UL-listed TC-ER cables
	Conductor connection cross-section, AWG, max.	AWG 10
	Conductor connection cross-section, AWG, min.	AWG 14
	Rated voltage	600 V
	Rated current	30 A
Rated data acc. to UL for plug-in connector	Standard	UL 1059
	Note	for use with UL-listed TC-ER cables

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Technical data

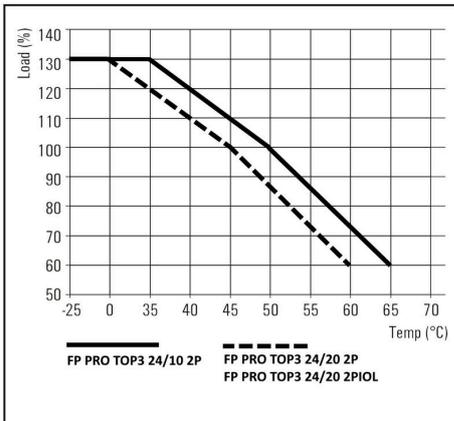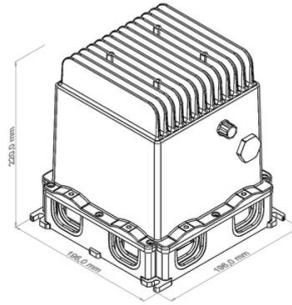|		
Conductor connection cross-section, AWG, max.	AWG 12	
Conductor connection cross-section, AWG, min.	AWG 16	
Rated voltage	600 V	
Rated current	20 A	

Rated data acc. to UL for fuse plug

Classifications

ETIM 8.0	EC002540	ETIM 9.0	EC002540
ETIM 10.0	EC002540	ECLASS 14.0	27-04-07-01
ECLASS 15.0	27-04-07-01		

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Drawings

M12 A-coded		FP PRO TOP3 … 2P	FP PRO TOP3 24/20 2PIOL
1	1	13	L+
2	I/O	n.c.
3	GND	L-
4	4	14	C/Q
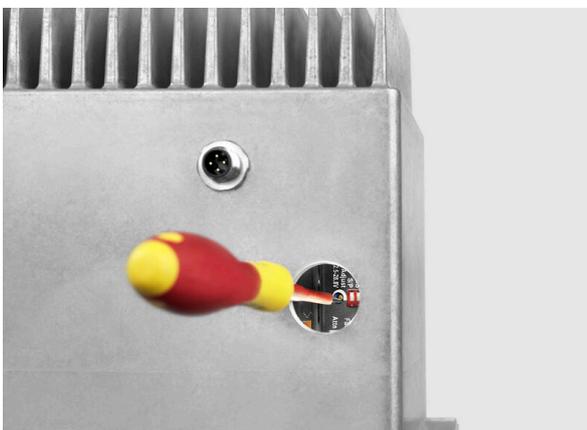
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Accessories

Adapters

HQ adapter for FieldPower®
Tool-free installation like a FieldPower cable seal
Suitable for the HQ 4/2, HQ 8 and HQ 17 plug-in
connector inserts
Optionally with lockable protective cover (protection
against being switched on again, in accordance with EN
60204-1)

General ordering data

Type	BG ARGH HQP ALU PT6	Version
Order No.	1532200000	Adapter, Field Power® sealing insert, HQ adapter, IP65, with
GTIN (EAN)	4050118337433	corresponding enclosure, Polycarbonate, glass fibre reinforced,
Qty.	1 ST	lockable: No
Type	BG ARGH HQP ALU PT6 CS	Version
Order No.	1532210000	Adapter, Field Power® sealing insert, HQ adapter, IP65, with
GTIN (EAN)	4050118337600	corresponding enclosure, Polycarbonate, glass fibre reinforced,
Qty.	1 ST	lockable: Yes

Seals

Intelligent cabling solutions can save you valuable time
and money.
The FieldPower® modular system contains the right
solution for every cabling task.
Foldable seals for the use of pre-assembled cables
Seals available with M16 and M20 connection thread
Integration of operating and signalling devices into the
seal possible

General ordering data

Type	RKDG 2XD8.5 WG PT6	Version
Order No.	1114530000	Field Power® sealing insert, Seal, IP54, with corresponding
GTIN (EAN)	4032248892624	enclosure, EPDM
Qty.	10 ST	
Type	DG M16 PT6	Version
Order No.	2545540000	Field Power® sealing insert, Seal with connection thread, IP65, with
GTIN (EAN)	4050118555523	corresponding enclosure, EPDM
Qty.	1 ST	
Type	DG D0 PT6	Version
Order No.	4323240000	Field Power® sealing insert, Blank seal, IP65, with corresponding
GTIN (EAN)	4032248641246	enclosure, EPDM
Qty.	10 ST	
Type	DG M20 PT6	Version
Order No.	2545550000	Field Power® sealing insert, Seal with connection thread, IP65, with
GTIN (EAN)	4050118555530	corresponding enclosure, EPDM
Qty.	1 ST	

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Accessories

Type	RKDG D11 PT6		Version	
Order No.	4323210000		Field Power® sealing insert, Foldable seal, IP65 with corresponding	
GTIN (EAN)	4032248641215		housing, IP65, with corresponding enclosure, EPDM	
Qty.	10 ST			
Type	RKDG D13 PT6		Version	
Order No.	4323230000		Field Power® sealing insert, Foldable seal, IP65 with corresponding	
GTIN (EAN)	4032248641239		housing, IP65, with corresponding enclosure, EPDM	
Qty.	10 ST			
Type	RKDG D15 PT6		Version	
Order No.	4323220000		Field Power® sealing insert, Foldable seal, IP65 with corresponding	
GTIN (EAN)	4032248641222		housing, IP65, with corresponding enclosure, EPDM	
Qty.	10 ST			
Type	RKDG D17 PT6		Version	
Order No.	4324010000		Field Power® sealing insert, Foldable seal, IP65 with corresponding	
GTIN (EAN)	4032248641284		housing, IP65, with corresponding enclosure, EPDM	
Qty.	10 ST			
Type	RKDG D9 PT6		Version	
Order No.	4329610000		Field Power® sealing insert, Foldable seal, IP65 with corresponding	
GTIN (EAN)	4032248668687		housing, IP65, with corresponding enclosure, EPDM	
Qty.	10 ST			

Tools

Sheathing stripper for PVC cables

General ordering data

Type	AM 25		Version	
Order No.	9001540000		Tools, Sheathing strippers	
GTIN (EAN)	4008190138271			
Qty.	1 ST			
Type	AM 16		Version	
Order No.	9204190000		Tools, Sheathing strippers	
GTIN (EAN)	4032248608133			
Qty.	1 ST			

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Accessories

Slotted screwdriver

Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip

General ordering data

Type	SDS 0.6X3.5X100	Version	
Order No.	2749340000	Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade	
GTIN (EAN)	4050118895568	thickness (A): 0.6 mm	
Qty.	1 ST		

IP68 version

In addition to the extensive range of enclosures, Weidmüller offers a variety of cable glands for a wide range of applications.
The cable glands made of brass, plastic and stainless steel meet the most various IP protection classes to suit any industrial enclosure.
Depending on the series of cable glands and the application, the cable glands are approved and tested according to VDE, UL, UR, cULus, DNV GL or EN 45545.

General ordering data

Type	VG M20 - K 68	Version	
Order No.	2811470000	VG K (standard plastic cable gland), Cable glands, straight, M 20, 10	
GTIN (EAN)	4064675292227	mm, OD min. 10 - OD max. 14 mm, IP54, IP66, IP67, IP68 - 5 bar (30	
Qty.	50 ST	min.), Polyamide 6	
Type	VG M20-1/K68	Version	
Order No.	1772300000	VG K (standard plastic cable gland), Cable glands, straight, M 20, 10	
GTIN (EAN)	4032248129966	mm, OD min. 6 - OD max. 12 mm, IP54, IP66, IP67, IP68 - 5 bar (30	
Qty.	50 ST	min.), Polyamide 6	

Plastic lock nuts, grey

In addition to cable glands for a wide range of applications, the product portfolio is rounded off by plugs, pressure compensation elements, adaptors and the corresponding accessories such as locknuts, sealing rings, flat washers and earthing rings.

Creation date 12.03.2026 10:40:46 MEZ

Catalogue status / Drawings

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Accessories

General ordering data

Type	SKMU M20 - K GR	Version	
Order No.	1772460000	SKMU PA (plastic locknut), Locknut, M 20, 6 mm, Polyamid 6 (PA6 -	
GTIN (EAN)	4032248130207	GF30)	
Qty.	100 ST		

Bits E6,3 - Torx®

The Weidmüller bits are standard bits which are highly popular with users thanks to their good quality, large range and efficiency. The computer-controlled hardening method enables Weidmüller to guarantee a consistently high standard of quality.
The high-quality raw materials used make it possible to reach torques far higher than any of those specified in the relevant DIN standards:
• DIN 5261 for PH/PZ bits,
• DIN 5263 for slotted bits,
• Camcar standard for TORX bits
That means a long life at high torques and hence ideal conditions for standard situations.
The benefits:
• Suitable for all types of screws. Because of their excellent hardness values of 59-61 HRC, they are suitable for use with both manual and power tools.
• Good wearing resistance and thus a long life expectancy.
• Optimum fit in all DIN screws means low wear and optimum torque transmission.
• Manufactured to meet professional quality criteria according to relevant ISO standards with a consistently high standard of quality.

General ordering data

Type	BIT E6,3 T20 X 150	Version
Order No.	2821510000	Mounting tool
GTIN (EAN)	4064675359050	
Qty.	5 ST	

DMS PRO

Weidmüller torque screwdrivers have an ergonomic design and are therefore ideal for use with one hand. They can be used without causing fatigue in all installation positions. Apart from that, they incorporate an automatic torque limiter and have a good reproducibility accuracy.

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Accessories

General ordering data

Type	DMS PRO	Version	
Order No.	1479120000	Mounting tool	
GTIN (EAN)	4050118287011		
Qty.	1 ST		