

FP PRO TOP3 24/20 3M**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

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, PUSH IN
Order No.	2887610000
Type	FP PRO TOP3 24/20 3M
GTIN (EAN)	4064675859864
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Depth	220 mm	Depth (inches)	8.661 inch
Height	196 mm	Height (inches)	7.717 inch
Width	196 mm	Width (inches)	7.717 inch
Net weight	5,192 g		

Temperatures

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

Input

AC current consumption	1,5 A @ 400 V DC / 2 A @ 320 V AC	AC input voltage range	3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
DC input voltage range	450...800 V DC (max. 500 V DC acc. to UL508)	Frequency range AC	45...65 Hz
Recommended back-up fuse	3 - 5 A, Char C	Surge protection	Varistor
Inrush current	Max. 10 A	Input fuse (internal)	No

Output

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

General data

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

Insulation coordination

Surge voltage category	III, II
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Classifications

ETIM 6.0	EC002540	ETIM 7.0	EC002540
ETIM 8.0	EC002540	ETIM 9.0	EC002540
ETIM 10.0	EC002540	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	27-04-90-02
ECLASS 14.0	27-04-07-01	ECLASS 15.0	27-04-07-01

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www.weidmueller.com**Technical data****Environmental Product Compliance**

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

Approvals

ROHS	Conform
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Downloads

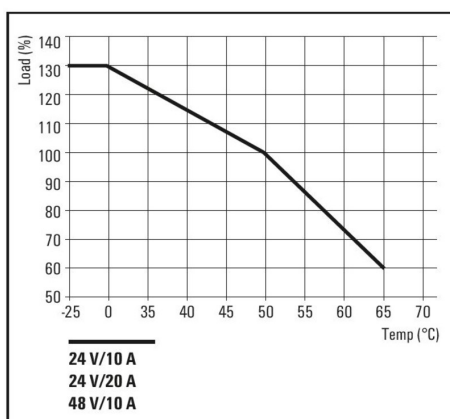
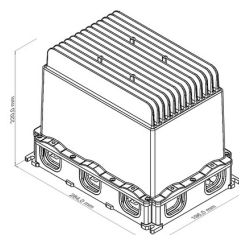
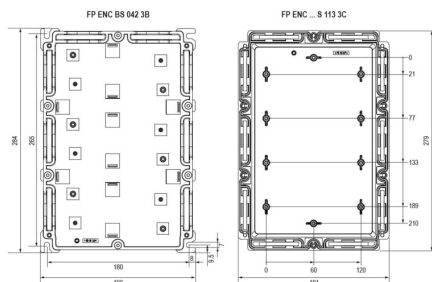
Approval/Certificate/Document of Conformity	Manufacturer's Declaration FieldPower® PROtop
User Documentation	Manual FieldPower® PROtop
Catalogues	Catalogues in PDF-format

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Drawings



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Accessories

Terminal rails for aluminum cover



Extensive range of accessories for the FieldPower® boxes.

Cable seals, terminal rails, locking elements and much more.

General ordering data

Type	FP ENC DR15 68 XC A	Version
Order No.	8000046634	Field Power® terminal rail, Steel, galvanized, 68 mm, for aluminium lid
GTIN (EAN)	4050118686586	
Qty.	5 pc(s).	
Type	FP ENC DR07 080 XC A	Version
Order No.	2633730000	Field Power® terminal rail, Steel, galvanized, 80 mm, for aluminium lid
GTIN (EAN)	4050118664379	
Qty.	5 pc(s).	
Type	FP ENC DR07 145 3C A	Version
Order No.	2633760000	Field Power® terminal rail, Steel, galvanized, 145 mm, for aluminium lid
GTIN (EAN)	4050118664355	
Qty.	5 pc(s).	
Type	FP ENC DR07 110 3C A	Version
Order No.	2633750000	Field Power® terminal rail, Steel, galvanized, 110 mm, for aluminium lid
GTIN (EAN)	4050118664362	
Qty.	5 pc(s).	
Type	FP ENC DR07 170 3C A	Version
Order No.	2633780000	Field Power® terminal rail, Steel, galvanized, 170 mm, for aluminium lid
GTIN (EAN)	4050118664348	
Qty.	5 pc(s).	

AC



Power distribution using uncut cables with cross-sections from 1.5 to 6 mm².

Power supply / T-branch tap via PUSH IN connection (0.5 to 10 mm²) and/or plug-in connection (0.5 to 4 mm²). Coloured markings provide clear assignment of wires.

- Power supply
- Power distribution
- Power branching

General ordering data

Type	PT6	Version
Order No.	1957620000	FieldPower® contact element, AC, IP20, Insulation displacement connection (IDC), PUSH IN, Number of poles : 5
GTIN (EAN)	4032248642489	
Qty.	1 pc(s).	

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Accessories

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.

General ordering data

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

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	DG M20 PT6	Version
Order No.	2545550000	Field Power® sealing insert, Seal with connection thread, IP65, with corresponding enclosure, EPDM
GTIN (EAN)	4050118555530	
Qty.	1 pc(s).	
Type	RKDG D13 PT6	Version
Order No.	4323230000	Field Power® sealing insert, Foldable seal, IP65 with corresponding housing, IP65, with corresponding enclosure, EPDM
GTIN (EAN)	4032248641239	
Qty.	10 pc(s).	
Type	RKDGE D4X4 PT6	Version
Order No.	2443760000	Field Power® sealing insert, Slotted sealing insert, IP54, in combination with RKDG D17 PT6, with corresponding enclosure, TPE-V
GTIN (EAN)	4050118457643	
Qty.	10 pc(s).	
Type	RKDG D24 WG PT6	Version
Order No.	1069060000	Field Power® sealing insert, Seal, IP54, with corresponding enclosure, EPDM
GTIN (EAN)	4032248827053	
Qty.	10 pc(s).	
Type	RKDGE D2X6,5 PT6	Version
Order No.	2443800000	Field Power® sealing insert, Slotted sealing insert, IP54, in combination with RKDG D17 PT6, with corresponding enclosure, TPE-V
GTIN (EAN)	4050118457704	
Qty.	10 pc(s).	

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Accessories

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 pc(s).	
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 pc(s).	
Type	RKDG D18 WG PT6	Version
Order No.	2491870000	Field Power® sealing insert, Seal, IP54, with corresponding enclosure,
GTIN (EAN)	4050118501537	EPDM
Qty.	10 pc(s).	
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 pc(s).	
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 pc(s).	
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 pc(s).	
Type	RKDG 2XD8.5 WG PT6	Version
Order No.	1114530000	Field Power® sealing insert, Seal, IP54, with corresponding enclosure,
GTIN (EAN)	4032248892624	EPDM
Qty.	10 pc(s).	
Type	DG D0 PT6	Version
Order No.	4323240000	Field Power® sealing insert, Blank seal, IP65, with corresponding
GTIN (EAN)	4032248641246	enclosure, EPDM
Qty.	10 pc(s).	

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.

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 pc(s).	

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Accessories

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.

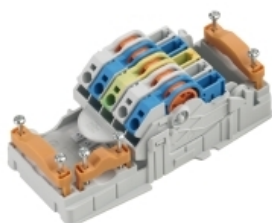
The benefits:

- 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 pc(s).	

DC



Power distribution using uncut cables with cross-sections from 1.5 to 6 mm².

Power supply / T-branch tap via PUSH IN connection (0.5 to 10 mm²) and/or plug-in connection (0.5 to 4 mm²). Coloured markings provide clear assignment of wires.

- Power supply
- Power distribution
- Power branching

General ordering data

Type	PT6 DC	Version
Order No.	1126840000	FieldPower® contact element, DC, IP20, Insulation displacement connection (IDC), PUSH IN, Number of poles : 5
GTIN (EAN)	4032248908462	
Qty.	1 pc(s).	

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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 pc(s).	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 pc(s).	lockable: Yes

Fuse plug



Power distribution using uncut cables with cross-sections from 1.5 to 6 mm².

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- Power supply
- Power distribution
- Power branching

General ordering data

Type	PTSI 4/LD 400V AC	Version
Order No.	1961770000	Field Power® plug-in connector, Fuse, IP20, Polyamide, PUSH
GTIN (EAN)	4032248641765	IN, Number of poles : 5
Qty.	1 pc(s).	
Type	PTSI 4/LD 36V AC/DC	Version
Order No.	1252210000	Field Power® plug-in connector, Fuse, IP20, Polyamide, PUSH
GTIN (EAN)	4050118044331	IN, Number of poles : 5
Qty.	1 pc(s).	

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Accessories

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 M20-1/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 pc(s).	min.), Polyamide 6
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 pc(s).	min.), Polyamide 6

Terminal rails for lower parts of enclosure



Extensive range of accessories for the FieldPower® boxes.

Cable seals, terminal rails, locking elements and much more.

General ordering data

Type	TS 35 PT6	Version
Order No.	1170690000	Field Power® terminal rail, Steel, galvanized, 54 mm, for base part
GTIN (EAN)	4032248962532	
Qty.	10 pc(s).	
Type	FP ENC DR07 230 3B	Version
Order No.	2633460000	Field Power® terminal rail, Steel, galvanized, 230 mm, for base part
GTIN (EAN)	4050118664409	
Qty.	5 pc(s).	
Type	FP ENC DR07 142 XB	Version
Order No.	2633450000	Field Power® terminal rail, Steel, galvanized, 142 mm, for base part
GTIN (EAN)	4050118664416	
Qty.	5 pc(s).	

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Plug-in connector



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- Power supply
- Power distribution
- Power branching

General ordering data

Type	PTDS 4	Version
Order No.	1952130000	Field Power® plug-in connector, 3-phase AC, IP20, Polyamide, PUSH
GTIN (EAN)	4032248632084	IN, Number of poles : 2 x 5
Qty.	10 pc(s).	
Type	PTDS 4 DC	Version
Order No.	1009990000	Field Power® plug-in connector, DC, IP20, Polyamide, PUSH IN,
GTIN (EAN)	4032248715244	Number of poles : 2 x 5
Qty.	10 pc(s).	
Type	PTS 4 DC	Version
Order No.	1131730000	Field Power® plug-in connector, DC, IP20, Polyamide, PUSH IN,
GTIN (EAN)	4032248912117	Number of poles : 5
Qty.	10 pc(s).	
Type	PTS 4	Version
Order No.	1952120000	Field Power® plug-in connector, 3-phase AC, IP20, Polyamide, PUSH
GTIN (EAN)	4032248632909	IN, Number of poles : 5
Qty.	10 pc(s).	