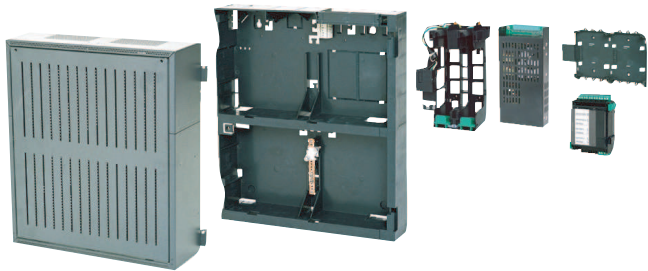
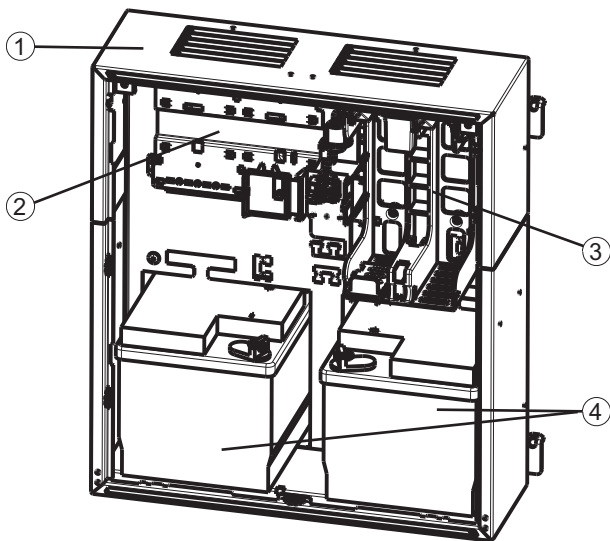


FPP 5000 External power supply kit



The FPP 5000 External power supply kit is designed for universal power supply, and has space for two batteries (capacity 38 - 45 Ah).

System overview



Pos.	Description
1	Power supply housing, frame installation
2	Mount for panel rail short with slots for battery controller module and communication interface
3	Power supply bracket for universal power supply 24 V/6 A
4	Slot for 2 batteries

- ▶ Charging process controlled by temperature and time
- ▶ Voltage outputs each electronically fused
- ▶ Can hold two batteries
- ▶ Distinct fault detection, diagnosis, and transmission to the panel
- ▶ Line monitoring of all power outputs according to VdS 2540

The power supply housing is installed on a mounting frame medium (not shown here).

Functions

The FPP 5000 kit is a non-integrated power supply equipment according to EN 54-4 for use as a universal power supply for components of the AVENAR system. It has space for two batteries. The power supply is plugged into the power supply bracket and is immediately operational thanks to the pre-wired plug-and-socket connections. It is protected against excess voltage and reversed polarity. The power supply bracket is equipped with a thermal sensor. The output voltage is monitored and controlled externally.

The battery controller module monitors the power supply and controls the charging of the batteries, subject to temperature parameters and set times. Each power output is electronically fused.

The FPP-5000-IFM provides the communication interface between the power supply kit and the panel. The interface transmits the following fault messages to the panel:

- Mains fault
- Battery fault
- Battery internal resistance fault
- Battery controller module fault
- Short circuit power outputs
- Ground fault

The FSP-5000-RPS programming software permits:

- Configuration of the switching outputs
- Configuration of line monitoring in accordance with VdS 2540

The interface is installed next to the battery controller module on the panel rail.
Power is supplied through the panel rail via the module bus.

Notice: For compliance with EN 54-2, a maximum of 10 FPP-5000-IFM interfaces is allowed per LSN loop.

Regulatory information

Complies with:

- EN 54-4:1997/A1:2002
- EN 54-17:2005

Region	Regulatory compliance/quality marks	
Europe	CE	FPP-5000
	CPD	0786-CPR-20357 FPP-5000
Germany	VdS	G 205050 FPP-5000
Morocco	CMIM	FPP-5000

Installation/configuration notes



Notice EN 54-4

The product is a non-integrated power supply equipment (PSE) according to EN 54-4. It can only be used and operated with the AVENAR panel series.

Parts included

Quantity	Component
1	PMF 0002 A Power supply housing, frame installation, with power supply bracket
1	FMH 0000 A Mounting frame medium
1	UPS 2416 A Universal Power Supply 24 V/6 A
1	PRS 0002 A Panel rail short
1	FPE-8000-BCM Battery controller module
1	FPP-5000-IFM Communication interface
1	CPB 0000 A Cable set BCM/UPS (universal power supply)
1	CBB 0000 A Cable set BCM/Battery
1	Battery pole connection cable for frame installation housing
1	Supplementary package



Notice

Optional: FPO-5000-EB Earth bar

Technical specifications

Electrical

AC mains:	
• Input voltage (VAC)	100 VAC - 240 VAC
• Input voltage (VdS-approved according to EN54)	230 VAC +10% / -15%
• Power frequency	50 Hz to 60 Hz
• Power source (EN 62368-1)	PS3
• Electrical source (EN 62368-1)	ES3
Terminals VDC1 and VDC2 +/-	
• Output voltage (min-max)	20.4 VDC - 30 VDC battery-buffered
• Output current (min-max) (x 2)	0 A - 2.8 A
• Power source (EN 62368-1)	PS3
• Electrical source (EN 62368-1)	ES1
Current consumption FPP-5000-IFM interface:	
• From rail at 24 V DC	13.2 mA
• From LSN	3.25 mA

Mechanical

Dimensions (H x W x D) (mm)	527 mm x 456 mm x 236 mm
Housing material	• Sheet steel, painted • Plastic (ABS) AF-312A
Housing color (RAL)	• RAL 7015 Slate gray • RAL 7016 Anthracite gray
Front color (RAL)	RAL 7016 Anthracite gray
Mechanical source (EN 62368-1)	MS3
Recommended installation height	< 2 m

Environmental

Class of equipment (IEC 62368-1)	I
IP rating	IP30
Operating relative humidity, non-condensing (%), at 25 °C	95% max.
Operating temperature (°C)	-5 °C – 50 °C

Storage temperature (°C)	-20 °C – 70 °C
Cooling	Natural convection*

*Do not obstruct the vent holes.

Ordering information

FPP 5000 External power supply kit
for universal power supply
Order number **FPP 5000**



<https://www.boschsecurity.com>