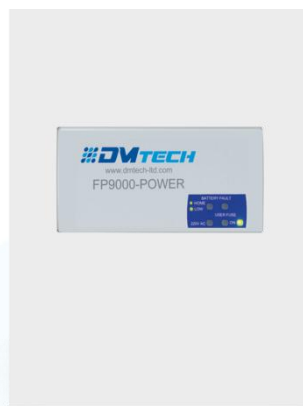


DMTech Ltd.
EN 54-4 Power Supply Equipment
FP9000P Series



1. Description

The FP9000P series power supplies are standalone, combined power supply units incorporating a mains power module, an integrated battery charger and a compartment for rechargeable batteries. They are designed to provide uninterrupted power to devices in fire detection systems, fire control and automation equipment, and other safety-related installations.

The series includes three models according to the maximum output current:

- **FP9000P-2.0A** – nominal output current 2.0 A / Plastic enclosure
- **FP9000P-4.5A** – nominal output current 4.5 A / Metal enclosure
- **FP9000P-6.0A** – nominal output current 6.0 A / Metal enclosure

All models fully comply with the requirements of **EN 54-4: Power supply equipment for fire detection and fire alarm systems**.

2. Technical Specifications

	FP9000P-2.0A	FP9000P-4.5A	FP9000P-6.0A
Input voltage:	(187-253)V AC, 50/60 Hz		
Maximum power consumption:	50VA	100VA	150VA
Output voltage:	(17-27.6)V DC		
Maximum continuous output current:	2.0A	4.5A	6.0A
Maximum peak output current:	4.0 A / 15 min	6.0 A / 15 min	6.0A
Ripple voltage:	<150 mVpp		
Fault status output:	Potential-free relay contact (C/NC/NO), 1 A / 30 V DC		
Maximum cross-section of connecting wires:	2,5 mm ²		
Battery capacity:	2x12V / (4.5 / 5) Ah	2x12V / (5 / 7 / 9) Ah	2x12V / (5 / 7 / 9) Ah
Ingress protection rating:	IP 40		
Operating temperature range:	-5°C до +40°C		
Relative humidity resistance:	(92±3)% при 40°C		
Dimensions:	305x250x100 mm plastic enclosure	330x255x85 mm metal enclosure	330x255x85 mm metal enclosure
Weight:	1,2 kg	2,6 kg	2,6 kg

3. Main Functions

- Continuous 24 V DC power supply to connected loads
- Charging and maintenance of rechargeable batteries
- Automatic switchover between mains and battery operation
- Deep-discharge protection for the batteries
- Fault relay output (C/NC/NO) for “General Fault” indication

4. Indications

The front panel provides clear LED indication of the main operating states of the power supply:

- **Normal operation** – green LED
- **General Fault** – yellow LED.

Activated when one or more of the following conditions occur:

- loss or failure of the 220 V AC mains supply (yellow LED)
- missing or faulty batteries (yellow LED)
- blown fuse in the battery circuit
- blown “Load” fuse on the output

When a fault condition is present, the relay fault output automatically switches, allowing transmission of the fault status to a fire alarm control panel or other supervisory equipment.

5. Protections

- Short-circuit protection
- Overload protection
- Thermal protection
- Reverse-polarity protection of batteries
- Deep-discharge protection (automatic shutdown <20.4–21.0 V)

6. Typical Applications

- Fire alarm control panels
- Addressable I/O modules
- Power supply for smoke vents and fire dampers
- Electromagnetic door holders
- CO / gas detection systems

7. Warranty

Warranty period: **36 months**, provided that all installation and operating conditions are observed.

