

# PS1400 20 / 50 / 100 / 150 Amp Power Supply

The PS1400 series of power supplies is an FM- approved, power supply system that is designed to power fire alarm systems and toxic and combustible gas monitoring systems. Each system consists of a 24-Volt battery set and a charger system that has been FM-approved for compliance with the NFPA 72 requirements for primary and secondary power supplies. The PS1400 series of power supplies are available in 20, 50, 100, and 150 Amp versions.

## Battery Charger Panel Features

The battery charger charges the battery set and provides unregulated power for powering the Fire and Gas panel.

- AC feed, battery voltage and charger health monitoring
- Individual status contacts that can be wired to a fire alarm panel for indication and alarming
- Continuous current monitoring displays real-time standby and alarm currents and calculates remaining battery life when on standby power

## Battery Set Features

The battery set is provided as a secondary power supply as required by NFPA 72.

- Floor mounted, self-contained, not enclosure-dependent
- Plastic guards protect terminals from damage or shorting
- DC-DC Converter(s) provide a tightly regulated 24 VDC nominal output
- Regulated power for components and circuits that require tight voltage regulation and where ground fault detection is not required
- Separate ground fault detection circuit for unregulated power, alarming and reporting to a Fire and Gas alarm panel
- Separate regulated and unregulated 24VDC circuits with a disconnect for over-current protection
- Voltage Regulated Lead Acid (VRLA) 20-year maintenance-free battery set

## Class 1 Div 2 Area Classification

The PS1400-20-DIV2 20 Amp Power Supply is designed and FM-listed for installation and use in hazardous locations.

## Environment Specifications

Specification	Data
Ambient Temperature Range: Operating Storage	-20 to 50 Deg C, 0.5 Deg C/min -40 to 50 Deg C, 10 Deg C/min
Relative Humidity: Operating	5 to 95% non-condensing
Vibration:	10-150 Hz, 1 g. max



## Power Requirements

### 20 Amp Battery Charger System:

120/240 VAC 1-Phase, 60 Hz @ 6.3 Amps

### 50 Amp Battery Charger System Available Options:

120/208/240 VAC 1-Phase, 60 Hz @ 23/13/11 Amps

400 VAC 1-Phase, 60 Hz @ 6.8 Amps

480 VAC 1-Phase, 60 Hz @ 5.6 Amps

### 100 Amp Battery Charger System Available Options:

120/208/240 VAC 1-Phase, 60 Hz @ 44/25/22 Amps

400 VAC 1-Phase, 60 Hz @ 13 Amps

480 VAC 1-Phase, 60 Hz @ 11 Amps

### 150 Amp Battery Charger System Available Options:

480 VAC 1-Phase, 60 Hz @ 16 Amps

