HPF24S6 and HPF24S8

Power Supplies with Battery Chargers

Description

The HPF24S6 and HPF24S8 are compact, cost-effective, 6 amp. or 8 amp. remote power supplies with integral battery chargers. These adaptable power supplies may be connected to any 12 or 24 volt Fire Alarm Control Panel (FACP) or the power supplies may stand alone. Primary applications include the following:

- Notification Appliance Circuits (NAC) expansion to support ADA requirements and NAC synchronization
- Auxiliary power to support 24 volt system accessories

These power supplies provide regulated and filtered 24 VDC power to four (4), notification appliance circuits, configured as either four Class B (Style Y) or Class A (Style A, with ZNAC-4 Option Module). Alternately, the four outputs may be configured as follows:

- all non-resettable
- all resettable
- two non-resettable
- two resettable

The power supplies also contain a battery charger with a charging capacity of up to 18 Amp Hour batteries.

The HPF24S6 and HPF24S8 power supplies comply with the following Agency standards:

- NFPA 72 National Fire Alarm Code,
- UL Standard 864, 9th Edition for control units for Fire Alarm Systems (NAC expander mode).
- UL 1481 Power Supplies for Fire Alarm Systems (stand-alone mode).



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Features

- UL Listed NAC synchronization using System Sensor, Cooper-Wheelock or Gentex (Commander Series) appliances.
- Cascade up to ten (10) power supplies (four (4) power supplies with Gentex) with strobe timing maintained.
- Operates as a sync follower or a sync generator (default).
- Contains two (2), fully -isolated input/control circuits energized from FACP notification appliance circuit (NAC expander mode) or jumpered permanently on (stand-alone mode).
- Configured to internally house addressable SLC control module for alarm activation.
- Four (4) Class B (Style Y) or four (4), Class A (Style Z) (with ZNAC-4 Module) notification appliance circuits.
- 6.0A or 8.0A (depending on model) full load output (3.0A maximum per circuit) in NAC expander mode (UL Standard 864).
- 4.0A or 6.0A continuous output in stand-alone mode (UL Standard 1481).

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SIGNALING UL LISTED UOXX.S6677 UTRZ.S6677 7315-1637:102

GAMEWELL-FCI
12 Clintonville Road, Northford, CT 06472-1610 USA • Tel: (203) 484-7161 • Fax: (203) 484-7118
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Features (Continued)

- In stand-alone mode, output power circuits configured as resettable, (using the FACP reset switch), non-resettable, or a combination of both.
- Fully regulated and filtered power output (optimal for powering four-wire smoke detectors, annunciators and other system peripherals requiring regulated/filtered power).
- Power-limiting technology meets UL power-limiting requirements.
- Normally-closed trouble relay.
- Fully supervised power supply, battery and notification appliance circuits.
- Selectable earth fault detection.
- AC trouble report selectable for immediate or up to 8 hour delay.
- Compatible with any UL 864 fire alarm control which uses an industry standard reverse polarity notification circuit (including unfiltered and unregulated bell power).
- Requires input trigger voltage of 9.0 -32 VDC.
- Self-contained in compact, lockable cabinet 15” H x 14.5” W x 2.75” D (38.1 H x 36.8 W x 7.0 D cm).
- Includes an integral battery charger capable of charging up to 18 AH batteries. The cabinet has the capacity of housing 7.0 AH batteries.
- Battery charger may be disabled via DIP (Dual In-Line Package) switch for applications requiring larger batteries.
- Fixed, clamp-type terminal blocks accommodate up to 12 AWG (3.1 mm^2) wire.

Specifications

Primary (AC) Power

- HPF24S6: 120 VAC 60 Hz, 3.2A maximum
- HPF24S8: 120 VAC 60 Hz, 3.2A maximum
- Wire size: minimum 14 AWG (2.0 mm^2) with 600V insulation

Control Input Circuit

- Input Voltage: 9.0 to 32 VDC
- Input Current: 2.0 mA (16 - 32 V) per input 1.0 mA (9 - 16 V)

Trouble Contact Rating

- 5.0A at 24 VDC

Auxiliary Power Output

- Specific Application Power - 500 mA maximum

Specifications (Continued)

Output Circuits

- +24 VDC filtered, regulated
- 3.0A maximum for any one circuit
- 4.0A maximum total continuous current for all outputs (Stand-alone mode) for the HPF24S6 and 6A for the HPF24S8
- 6A or 8A, depending on the model, maximum total short-term current for all outputs (NAC Expander mode).

Secondary Power (Battery) Charging Circuit

- Supports lead-acid batteries only
- Float Charge Voltage: 27.6 VDC
- Maximum Charge Current: 1.5A
- Maximum Battery Capacity: 18 AH

Ordering Information

Model	Description
HPF24S6	Remote charger 6A power supply (120 VAC). Includes the main printed circuit board, transformers, red enclosure, and installation instructions.
HPF24S8	Remote charger 8A power supply (120 VAC). Includes the main printed circuit board, transformers, red enclosure, and installation instructions.
FCPS-24S6RB	Replacement mother board.
ZNAC-4 -	Class A (Style Z) NAC option module
BAT-1270 -	Battery, 12 volt, 7.0 AH (two required).