

- **HPF24S6**   • **HPF24S6E**   • **HPF24S6C**
  - **HPF24S8**   • **HPF24S8E**   • **HPF24S8C**
- Fire Alarm Power Supply**

## Description

The HPF24S6 and HPF24S8 are compact, cost-effective, 6-amp or 8-amp remote power supplies with a battery charger built in. They may be connected to any 12- or 24-volt Fire Alarm Control Panel (FACP) or may stand alone. Primary applications include Notification Appliance (bell) Circuit (NAC) expansion (to support ADA requirements and NAC synchronization) or auxiliary power to support 24-volt system accessories. The supply provides regulated and filtered 24 VDC power to four 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 all non-resettable or all resettable or two non-resettable and two resettable. They also contains a battery charger capable of charging up to 18 Amp Hour batteries.

## Benefits

- Extends and supports power for additional fire alarm devices.
- Instantaneous switchover to standby battery (if equipped) when AC fails, maintaining power to all attached devices without intervention.
- Strobe signal "passes through" allowing syncing of large systems.
- LED lights for quick and easy diagnosis, troubleshooting, and status indication.
- Two outputs can be used for constant power devices such as door holders (power drops upon alarm).
- Works with almost any UL 864 fire alarm.

## Specifications

- Primary (AC) Power
  - HPF24S6, HPF24S6C: 120 VAC 60 Hz, 3.2 A maximum
  - HPF24S8, HPF24S8C: 120 VAC 60 Hz, 3.2 A maximum
  - HPF24S6E: 220/240 VAC, 50 Hz, 1.6 A maximum
  - HPF24S8E: 220/240 VAC, 50 Hz, 1.6 A maximum
  - Wire size: minimum 14 AWG (2.0 mm<sup>2</sup>) with 600V insulation.
- Control Input Circuit
  - Trigger Input Voltage: 9.0 to 32 VDC.
  - Trigger Current: 2.0 mA (16 - 32 V).
  - (per input) 1.0 mA (9 - 16 V).
- Trouble Contact Rating
  - 5.0 A at 24 VDC.
- Auxiliary Power Output
  - Specific Application Power - 500 mA maximum.
- Output Circuits
  - +24 VDC filtered, regulated.
  - 3.0 A maximum for any one circuit.
  - 4.0 A maximum total continuous current for all outputs (Stand-alone mode) for the HPF24S6 and 6A for the HPF24S8.
  - 6A or 8A (depending on 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: 27.6VDC.
- Maximum Charge Current: 1.5 A.
- Maximum Battery Capacity: 18 AH.
- UL Listed NAC Synchronization using System Sensor, Wheelock or Gentex (Commander Series) appliances.
- Cascade up to 10 power supplies (four with Gentex) with strobe timing maintained.
- Operates as a sync follower or a sync generator (default).
- Contains two, fully-isolated input/control circuits (triggered from FACP Notification Appliance Circuit [NAC expander mode] or jumpered permanently on [standalone mode]).
- Configured to internally house addressable SLC control module for alarm activation.
- Four Class B (Style Y) or four Class A (Style Z) (with ZNAC-4 Module) Notification Appliance Circuits.
- 6.0A or 8A (depending on model) full load output (3.0 A maximum per circuit) in NAC expander mode (UL 864).
- 4.0A or 6.0A continuous output in stand-alone mode (UL 1481).
- In stand-alone mode, output power circuits may be configured as resettable (reset line from FACP required) or non-resettable or a mix of two and two.
- 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.
- Form-C normally-closed trouble relay.
- Fully supervised power supply, battery and Notification Appliance Circuits.
- Selectable earth fault detection.
- AC trouble report selectable for immediate or 8 hour delay.
- Works with virtually any UL 864 fire alarm control which utilizes 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" [38.1 cm] H x 14.5" [36.8 cm] W x 2.75" [7.0 cm] D).
- Includes integral battery charger capable of charging up to 18 AH batteries. Cabinet capable of housing 7.0 AH batteries.
- Battery charger may be disabled via dip switch for applications requiring larger batteries.
- Fixed, clamp-type terminal blocks accommodate up to 12 AWG (3.1 mm<sup>2</sup>) wire.

### Standards and Codes

- NFPA 72 National Fire Alarm Code.
- UL 864 Standard for Control Units for Fire Alarm Systems (NAC expander mode).
- UL 1481 Power Supplies for Fire Alarm Systems (standalone mode).
- FM Approved
- CSFM Approved
- HPF24S6Cand HPF24S8C approved
  - CAN/ULC-S527-99

### Listings

Listings and approvals below apply to the HPF24S6 and HPF24S8. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL Listed:** S6677
- **CAN/ULC Listed:** S6677
- **CSFM:** 7315-1637:102
- **FM Approved**

### Ordering Information

**HPF24S6:** Remote charger 6A power supply (120 VAC). Includes main printed circuit board, transformers, red enclosure, and installation instructions.

**HPF24S8:** Remote charger 8A power supply (120 VAC). Includes main printed circuit board, transformers, red enclosure, and installation instructions.

**HPF24S6E:** Export version, 220/240 VAC, 50 Hz.

**HPF24S8E:** Export version, 220/240 VAC, 50 Hz.

**HPF24S6C:** Canadian version

**HPF24S8C:** Canadian version

**FCPS-24S6RB:** Replacement mother board.

**ZNAC-4:** Class A (Style Z) NAC option module

**A77-716B:** 12/24 VDC end-of-line relay for monitoring 4-wire smoke detector power.

**BAT-1270:** Battery, 12 volt, 7.0 AH (two required).

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This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.  
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