

HPF24S6(C/E) AND HPF24S8(C/E)

6 Amp / 8 Amp, 24 Volt Remote Fire Alarm Power Supplies

The HPF24S6(C/E) and HPF24S8(C/E) are compact, cost-effective, 6-amp or 8-amp remote power supplies with battery charger.

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.



HPF24S6

FEATURES AND 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 virtually any UL 864 fire alarm control which utilizes an industry-standard reverse-polarity notification circuit (including unfiltered and unregulated bell power)
- 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
- 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 mm²) wire

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HPF24S6(C/E) AND HPF24S8(C/E) TECHNICAL SPECIFICATIONS

Primary (AC) Power:

- HPF24S6/8(C): 120 VAC 60 Hz, 3.2 A maximum
- HPF24S6/8E: 220/240 VAC, 50 Hz, 1.6 A maximum
- Wire size: minimum 14 AWG (2.0 mm²) 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: Special 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

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)
- 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:** 7315-1637:0102
- **FM Approved**

ORDERING INFORMATION

HPF24S6: 6.0 A, 120 VAC remote charger power supply. Includes main printed circuit board, transformers, enclosure (15"H x 14.5"W x 2.75"D [cm: 38.1H x 36.83W x 6.985D]), and installation instructions

HPF24S6C: Same as above, ULC-listed

HPF24S6E: 6.0 A, 240 VAC remote charger power supply. Includes main printed circuit board, transformers, enclosure (15"H x 14.5"W x 2.75"D [cm: 38.1H x 36.83W x 6.985D]), and installation instructions

HPF24S8: 8.0 A, 120 VAC remote charger power supply. Includes main printed circuit board, transformers, enclosure (15"H x 14.5"W x 2.75"D [cm: 38.1H x 36.83W x 6.985D]), and installation instructions

HPF24S8C: Same as above, ULC-listed

HPF24S8E: 8.0 A, 240 VAC remote charger power supply. Includes main printed circuit board, transformers, enclosure (15"H x 14.5"W x 2.75"D [cm: 38.1H x 36.83W x 6.985D]), and installation instructions

FCPS-24S6RB: Replacement motherboard for HPF24S6

FCPS-24S8RB: Replacement motherboard for HPS24S8

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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