

by Honeywell

## Description

The Gamewell-FCI, HPFF8 is a Notification Appliance Circuit (NAC) expansion panel designed to extend the power capabilities of existing NACs and provide power for the auxiliary devices. The HPFF8 connects to any 12 or 24V Fire Alarm Control Panel (FACP) or stand alone.

The HPFF8 is available in 8.0 amps. It provides regulated and filtered 24VDC power to each of the four NACs and an auxiliary output. The NAC outputs are rated at 3.0 amps each (the total output cannot exceed 8.0 amps). The auxiliary output is rated at 2.0 amps. This output is continuously supplied, even in alarm, and therefore must be taken into account for power supply loading and battery size calculations.

The NAC outputs may be configured as any of the following:

- Four Class B (Style Y)
- Two Class A (Style Z)
- Two Class B and one Class A
- Four Class A with the optional HPP31076 Class A adapter installed

These power supplies contain an internal Battery charger capable of charging up to 26.0 amp-hour (AH) batteries.

The HPFF8 is mounted in lockable wall cabinet units that can accommodate up to two (2), 18AH batteries. A multi-pack option allows for up to four chassis mount units installed in a single lockable SBB-D4 enclosure. These chassis mount units have a "CM" suffix, HPFF8CM and can accommodate two 12AH batteries. Power supplies are available in either 120VAC/60 Hz or 240VAC/50 Hz.

One of the most challenging aspects of a retrofit application is locating the existing End-of-Line (EOL) resistor. In these applications that have EOL values, other than the 3.9k normally used with the HPFF8, a single resistor matching the existing EOL can be used as a reference for all the outputs. This feature speeds the installation and the system checkout, because the actual EOL does not need to be located and changed in the circuit. The reference resistor must be within the range of 1.9k to 25k.

## NAC Expander/Power Supply



HPFF8

## Features

- Four (4) supervised notification application circuits (NACs) capable of supplying +24VDC at 3.0 amp maximum each
- NAC output circuits may be configured as any of the following:
  - Four Class B (Style Y)
  - Two Class B & one Class A
  - Two Class A (Style Z)
  - Four Class A with the optional HPP31076 Class A adapter installed
- Four field-programmable operational modes
- 2.0 amp auxiliary continuously supplied output
- Two (2) fully supervised input/output control circuits
- Temporal coding and sync protocols compatible with the following notification appliance brands:
  - System Sensor
  - Faraday
  - Gamewell
  - Amseco
  - Cooper-Wheelock
  - Gentex
- Supervised AC input, battery voltage, auxiliary output, charger, and earth ground faults
- Trouble indication for supervision of the following:
  - NAC circuits
  - Auxiliary output
  - AC input
  - Charger
  - Battery voltage
  - Open contacts in the initiating device signal inputs (for FACP trouble notification)
  - Earth ground faults by individual status LED's
- Separate Trouble and AC Fail Form-C relay Contacts

An ISO 9001-2000 Company



### GAMEWELL-FCI

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## Features (Continued)

- The Trouble Form-C relay contacts selectable for immediate or a 2 hour delay with AC failure
- 26 AH battery charger capability; the wall cabinet supports two 12V 18AH batteries, while the multi-pack equipment cabinets supports two 12V 12AH batteries.
- NAC Overload protection and indication
- Up to four chassis mount units (HPFF8CM) can be installed in the SBB-D4 backbox
- Wall mount units can be configured to internally house the following:
  - one AOM-2SF single control module
  - one AOM-2R single relay module

## Specifications

<b>Primary Input Power:</b>	120VAC/60Hz, 3.6A or 220VAC/50Hz, 1.5A
<b>Secondary Power:</b>	24 volt operation: two (2), 7-24 AH batteries
<b>Battery Charging Capacity:</b>	Up to 26 AH batteries mounted
<b>Battery Space:</b>	
<b>HPFF8 Cabinet:</b>	Up to two 18AH batteries
<b>SBB-D4 Cabinet:</b>	Up to two 12AH batteries per supply
<b>Total Output Power:</b>	8.0A max
<b>Standby Current:</b>	0.030 A
<b>Auxiliary Power Output:</b>	0.15A under all conditions 2.0A if load is removed during operation (external relay or AC Fail Relay is required)

## Specifications (Continued)

<b>NAC Output Ratings:</b>	24VDC fully regulated, 3.0A max per circuit (8.0A total)
<b>End-of-Line Resistor Range:</b>	2K to 25k ohm, ½ watt
<b>Common Trouble Relay/AC Fail Relay:</b>	2.0A at 28VDC or 120VAC
<b>Input Control Circuit:</b>	16-30VDC @ 5mA min.
<b>Temperature Rating:</b>	32°F to 120°F (0°C to 49°C)
<b>Relative Humidity:</b>	10% to 93% non-condensing
<b>Cabinet Dimensions:</b>	
<b>HPFF8 Cabinet:</b>	16.65" W x 19.0" H x 5.2" D (42.29 W x 48.26 H 13.23 D cm)
<b>SBB-D4 Cabinet:</b>	24" W x 45.9" H x 5.15" D (60.96 W x 116.52 H x 13.1D cm)

## Ordering Information

Part Number	Description
<b>HPFF8</b>	8A fire rated power supply operating at 120VAC/60 Hz. Unit includes red enclosure with HPP lock and key
<b>HPFF8CM</b>	8A fire rated power supply - chassis mounted operating at 120VAC/60 Hz. Unit includes mounting hardware for installation in the SBB-D4 enclosure
<b>HPFF8E</b>	8A fire rated power supply operating at 240VAC/50 Hz
<b>HPFF8CME</b>	8A fire rated power supply chassis mounted operating at 240VAC/50 Hz
<b>HPP31076</b>	Class A (Style Z) NAC module
<b>FCI-VDR-D4</b>	Vented door, PK-625 lock and key for SBB-D4 backbox, black
<b>SBB-D4</b>	Backbox, accepts up to 4 chassis, black

### GAMEWELL-FCI