

IP Fire Series™ Intelligent Fire Controls

- PSM
- PS-24
- APS-4

Description

The architecture of an IPF Series™ fire control network is comprised of a series of IP-based distributable modules. These modules include alternate configurations of analog loop and NAC circuit modules (ALM-xy), standard display modules (SDM), annunciator control modules (ACM) and other specialized modules noted in other documents.

With distributed systems, power requirements can be varied according to system layout. With IP Fire Series™ controls, power can be centrally located and then distributed from the central location to remote system modules or power can be supplied along with the remote system modules.

The Power Supply (PS-24) provides 24V/8A of system power. Power is available for all modules, switches/routers and attached devices.

Battery charging is accomplished by the Auxiliary Power Supply (APS-4) which provides 24V/4A of battery charging power. The APS-4 is capable of charging 70Ah batteries.

The Power Supply Monitor (PSM) supervises the power supply, battery charger and provides for internal/external distribution of power throughout the system. The PSM also monitors for brownout conditions, low/no batteries and other electrical monitoring functions established by UL 864/9th edition.

Multiple instances of the PS-24, APS-4 and PSM may be installed through an IP Fire Series™ control system as required. There is no system limitation on the amount of power that can be distributed.

Special remote cabinetry to accommodate the PS-24, APS-4, PSM and batteries is available when installing power with remote system modules. See DS 1045 IPF Series™ Distributed System Cabinet Options for more information.

Like all IP Fire Series™ modules, the PS-24, APS-4 and PSM are compliant with the Restrictions on Hazardous Substance Directive (RoHS) and are free of many of the toxins normally associated with the electronic manufacturing process: Lead, Mercury, Cadmium, Hexavalent Chromium, Polybrominated Biphenyls and Polybrominated Diphenyl Ether.




Features

- Provides power for all IPF Series modules, routers and connected devices
- Provides battery and brown out supervision
- Switching 8A Power Supply unit mounts in IPF pre-configured or remote cabinets
- Switching 4A Battery Charging unit mounts in IPF pre-configured or remote cabinets
- Supervised and Controlled by the Power Supply Monitor (PSM)
- Charges 70Ah Batteries
- IPF-XL can accommodate multiple power supplies with a total of 12A of available power and an additional 8A of dedicated battery charging capacity
- Maximum number on an individual system: unlimited
- Internal and power-limited external power taps
- Green/RoHS Compliant

Listings

UL File: S24573
CSFM: Pending
MEA: Pending

Product	Data Sheet Number	Rev/Revision Date	
IPF Series™ PSM, PS-24, APS-4	1040	1.3/ 5/1/2009	

Engineer Specification

The contractor shall furnish and install, where indicated on the plans, integral power supply and battery charger modules for local and distributed IPF Series fire system modules. The power supply, battery charger and monitor card shall be fully supervised and shall monitor for the presence of AC power as well as battery power and also monitor for low/no battery and brown out conditions. The battery charger shall be capable of charging 70 AH batteries. The power supply, battery charger and power supply monitor must be UL listed and UL listed as compatible with the AsBuilt IPF and REM Series fire controls. The power supply, battery charger and power supply monitor modules shall be As Built Engineered Systems part numbers PS-24, APS-4 and PSM.

Technical Data

PS-24

Input Voltage Range: 88-132 VAC
Output Voltage: 24V
Output Current: 8A
Working Humidity: 20-90% RH non-cond.

APS--4

Input Voltage Range: 88-132 VAC
Output Voltage: 27.6V
Output Current: 4A
Working Humidity: 20-90% RH non-cond.

PSM Power Supply Monitor



Input Power: 110 VAC/60Hz
Output to Modules in Same Enclosure:
24 VDC/ 8A/non-resettable
Output Leaving Cabinet to Modules in Remote Enclosures:
24 VDC/ 3.5A/non-resettable
Rechargeable Battery Circuit:
Type: Sealed Lead Acid
Voltage: 27.6
Max. Amp Hour Capacity: 70
Expected Standby Op: 48 Hours

Ordering Information

Part Number	Data Sheet	Description
PS-24	1040	8A Power Supply
AP-4	1040	4A Battery Charger
PSM	1040	Power Supply Monitor Card

Related Modules, Accessory Cards and Cabinets

VPM/SDM	1010	VPM/SDM Configuration and Display Modules
ALM	1020	Analog SLC and NAC Circuits
Cabinets	1045	IPF-xy, IPF-XL and REM- Cabinet Options
IPF/IPF-XL	1050	IPF-xy, IPF-XL Pre-Configured Systems

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