



ALARMSAF

DC Power Supply 12/24 VDC, 8/4 Amp



AlarmSaf PS5-M DC Power Supplies supply regulated and filtered main, standby or auxiliary power to access control, fire, security and CCTV system components. They have been designed to meet the latest requirements in life safety systems integration and comply with changes to UL/ANSI specifications. Features include 12 or 24 VDC user selectable, battery presence supervision with a disable option, controlled current battery charging with 48 hour charging capability of 80 Amphours and separate reporting of AC and DC fault conditions.

Models are available with Fire Alarm Interface capability. Optional Power Distribution Modules are also available.

AGENCY LISTINGS

UL/ANSI 2044, 294, 1481, 1076
ULC-S318, S527
CSA C22.2-No. 107.1-01

CODE COMPLIANCE

NFPA 72, 731
CSFM
NY MEA
FCC Part 15, subpart B, class A

GENERAL FEATURES

- 12 OR 24 VDC, user selectable
- Thermal Protection
- Visual Fault indication and reporting
- Over current protection
- Battery Presence Supervision with optional disable
- Earth Ground Fault detection with optional disable
- Reverse battery protection
- Controlled current Battery charging
- Input and output surge suppression
- High Surge Capability
- Fire Alarm Interface for emergency exit (selected models only)
- Limited Lifetime Warranty

INSTALLATION / SERVICE FEATURES:

- Tamper switch included
- Connector for primary AC input allows for safe disconnect
- Available in small cabinet for reduced wall space
- Lightweight

APPLICATIONS

Fire System

- System Power
- Auxiliary Equipment
- Smoke Detectors
- Smoke Dampers
- Door Holders
- Elevator Recall
- Mass Notification Systems
- Fire Alarm Interface for emergency exit (selected models only)

Access Control & Security

- System Power
- Auxiliary Equipment Power
- Mag Locks
- Door Strikes
- Card Readers
- Proximity Readers
- Request to Exit Devices
- Fire Alarm Interface for emergency exit (selected models only)

CCTV

- DC Camera Power
- IP Camera Power
- PTZ's/Domes
- Fiber Optic Transceivers
- IR Illuminators
- Video Processing Equipment

DC Power Supply: 12/24 VDC, 8/4 A

SPECIFICATIONS

Input Specifications:

- Input voltage: 120 VAC
- Input voltage frequency: 50 or 60 Hz
- Input Current: 1.3 A maximum

Output Specifications:

- Output voltage: 12 or 24 VDC, user selectable
- Output power:
 - 100 Watts total
 - 8 A @ 12 VDC
 - 4 A @ 24 VDC
- Fuse Ratings
 - Battery: 15 A
 - FAI Main Output: 10 A
- Full load ripple: 0.015V p-p typical, 0.04V p-p during battery charge
- Electronically regulated and filtered output

Fire Alarm Interface (FAI) Specifications*

- One main FAI output
- Control Input Voltage: 9 -33 VDC
- Control Input Current: 3.3 mA maximum
- Dry contact input
- Open collector input

Temperature Ratings:

- Operating Temperature : 0° C to 49° C
- Humidity : 95% @ 32° C
- BTU/hr: 85 BTU maximum

Battery Charger Specifications:

- Battery Type: Sealed lead acid rechargeable
- Maximum battery charge capacity 80 Ah in 48 hours
- Maximum battery charge current: 2 A

Fault Detection:

- Loss of AC or brownout
- Power supply output > ±10%
- Over temperature condition
- Low battery voltage
- Earth ground fault (user option)
- Blown battery or AC fuse
- No battery present (user option)

Fault Reporting

- Form 'C' relay contacts
 - AC Fault: Contact rating, 28 VDC @ 1 A
 - Common Fault: Contact rating, 28 VDC @ 1 A

Visual Indicators:

- AC presence: Green LED
- AC fault: Yellow LED
- Common fault: Yellow LED
- Earth ground fault: Yellow LED
- FAI active: Red LED

MECHANICAL SPECIFICATIONS

Cabinet Features

- Vented Steel Cabinet
- Key Lockable
- Hinged Cover

PS5-M-002-UL & PS5-M-002-UL-FAI:

- 12" L x 12" W x 4" D, 10 Lbs
- Battery Space: 2 7 Ah or 2 12 Ah batteries

PS5-M-003-UL & PS5-M-003-UL-FAI:

- 11" L x 15" W x 4" D, 15 Lbs
- Battery Space: 2 7 Ah, 2 12 Ah or 2 17 Ah batteries

ORDER NUMBER	MODEL NUMBER	DESCRIPTION
03201	PS5-M-002-UL	12/24 VDC, 8/4 Amp power supply in 12" 12" x 4" cabinet
03202	PS5M-003-UL	12/24 VDC, 8/4 Amp power supply in 11" x 15" x 4" cabinet
03203	PS5-M-002-UL-FAI	12/24 VDC, 8/4 Amp power supply with Fire Alarm Interface in 12" x 12" x 4" cabinet
03204	PS5M-003-UL-FAI	12/24 VDC, 8/4 Amp power supply with Fire Alarm Interface in 11" x 15" x 4" cabinet
03205	PS5-M-000-UL	12/24 VDC, 8/4 A power supply replacement board

*Applies to models PS5-M-002-UL-FAI and PS5-M-003-UL-FAI

