



LIFE SAFETY POWER SOURCE (MPS)



12 or 24 VDC @ 3

Switching Technology

The ultimate in a life-safety system power source. With features often asked for but never before obtainable, AlarmSaf's MPS devices incorporate the most modern technology available. They provide unmatched regulation and filtering, comprehensive protection, fault detection, and smart charging, redefining the "power" in life-safety power sources.

DIMENSIONS

Cabinet Size

- B03
 - 11" H x 15" W x 4" D
 - 28cm x 38cm x 10cm
- B04
 - 15" H x 18" W x 4" D
 - 38cm x 46cm x 10cm

Cabinet Weight

- 30 lbs. max less Batteries

Cabinet Material

- B03
 - 18 Gauge Painted Steel
- B04
 - 16 Gauge Painted Steel

Battery Space

- B03
 - 4.75" H x 11" W x 3.5" D
 - 12cm x 38cm x 10cm
- B04
 - 7.5" H x 18" W x 3.5" D
 - 19cm x 46cm x 10cm

SPECIFICATIONS

Input Characteristics

- AC Input
 - 120VAC +10%/-15%, 60Hz, Single Phase
 - 2.5 Amperes Maximum

Output Characteristics

- Voltage: 12 VDC or 24 VDC Regulated
- Current: 3 Amp. Class 2 Power Limited
 - See table
- DC Output Ripple (rms):
 - 50mV rms @ .500 Amp load
 - 400mV rms max @ 3.00 Amp load
 - Active Output Current Limiting Protection
 - Reverse Battery Polarity Protection

Battery

- Battery Chemistry: Lead Acid/Gelled Electrolyte
- Maximum Battery Capacity: 34 Amphours
 - 4 Hour Standby: 3A
 - 24 Hour Standby: 900mA
 - 60 Hour Standby: 325mA
- Minimum Battery Capacity: 7 Amphours
 - 4 Hour Standby: 900mA
 - 24 Hour Standby: 125mA

Visual Indicators

- AC Presence: Green LED
- Primary Power: Green Lamp
- Battery Voltage/Presence Fault: Yellow LED
- Output Voltage Fault: Yellow LED
- Common Fault: Yellow LED

Fault Detection

- Conditions Reported
 - High/Low Battery Voltage
 - High/Low Output Voltage
 - Battery Presence / Blown Battery Fuse
 - Low AC / No AC
- Reporting Method
 - Fail Safe Form "C" Relay Contacts
 - Ratings: 1A @ 24VDC; 0.5A @ 120VAC

Temperature Characteristics

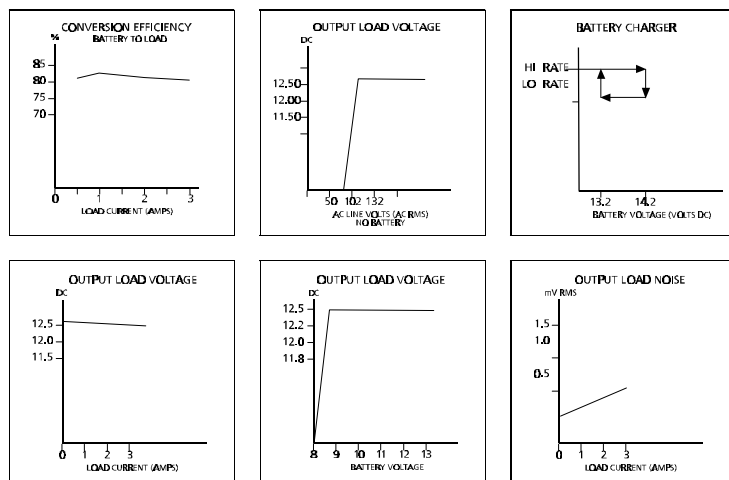
- Operating Temperature Range: 0°C to 50°C (32°F to 120°F)
- Humidity: 85% @ 30°C (85°F)

LISTINGS

- UL
 - UL 294: Access Control System Units
 - UL 603: Power Supplies for use with Burglar Alarm Units
- UL 1481: Power Supplies for Fire Protective Signaling Systems
- CSFM: California State Fire Marshal

FEATURES

- 12 or 24 volt versions with current capabilities from 3 Amperes. The MPS line of life-safety power source units will meet all applicable requirements of UL 294, 603, or 1481.
- New charging technology for complete charging of batteries while delivering full rated load current. Dual Rate Battery Charging technique provides battery with optimum charging level at all times.
- New regulation approach maintains output voltage regulation tolerances even while on battery standby! A 24 volt power source will maintain 24 volts at the output; even with the battery voltage at a discharged 20.4 volts.
- Switching Technology minimizes heat generation; maximizes efficiency.
- Intelligent Battery Presence checks for actual battery every seven seconds, and performs a qualitative test.
- Calibrated Power Limiting Protection Circuit allows the unit to maintain full charge to the battery set while connected to a short circuit fault. Positive electronic shutdown of system output when rated output power is exceeded.
- Infinite duration short circuit tolerance.
- Fault Diagnostic circuit checks for Hi/Lo Output, Hi/Lo Battery, Battery Presence, Lo AC/No AC, Current Limit Activation
- Fault Annunciation provided by On-Board LED array and Form "C" Output Relay
- Remote ON/OFF input electronically controls system output directly from external equipment without an additional relay.



ORDER INFORMATION

Order#	Model Number	Output Voltage	Output Current	On-Board Battery Set
02101	MPS-U12030-B03-UL C-B	12VDC	3A	
02102	MPS-U12030-B03-UL-1B7	12VDC	3A	7Ah
02103	MPS-U12030-B04-UL-2B7	12VDC	3A	14Ah
02104	MPS-U12030-B04-UL	12VDC	3A	
02105	MPS-U12030-B04-UL-1B17	12VDC	3A	17Ah
02106	MPS-U12030-B04-UL-2B17	12VDC	3A	34Ah
02107	MPS-U24030-B03-UL	24VDC	3A	
02108	MPS-U24030-B03-UL-2B7	24VDC	3A	7Ah
02109	MPS-U24030-B04-UL	24VDC	3A	
02110	MPS-U24030-B04-UL-UL-2B17	24VDC	3A	17Ah