

PSX Power Solutions

Dual Voltage Power System



Features That Make a Difference:

- Provides uninterrupted back-up power for a complete iSTAR Ultra, 16-door setup, including locks
- Choice of wall mount and rackmount models
- Supervision of AC fault, system fault, ground fault, reverse battery, and fire alarm activation
- Switched and resettable outputs
- Network communication interface option
- Intelligent battery charging and battery state monitoring
- Dual rate charging restores battery sets from 4Ah to 80Ah
- Reverse polarity, overcurrent, and thermal overload protection
- Wall mount: 4.5" enclosure depth accommodates 12Ah battery sets
- Rackmount: Enhanced input and output surge suppression
- RoHS compliant, lead free, high efficiency designs
- UL603 and UL 294 compliant
- Lifetime warranty

PSX Dual Voltage Power System is a high efficiency, offline switch mode, dual voltage power supply battery charger designed to provide both iSTAR Ultra system power, and lock power for a complete 16-door setup. Capable of providing multiple power outputs and featuring user selectability for 12 or 24V DC on the lock supply, the wall mount unit is configured in a painted steel, locking enclosure with tamper switch and integral battery space. The rackmount unit is configured in a 2U rack enclosure.

One power supply (150W) in the PSX Dual Voltage Power System connects directly to the main power input of the iSTAR Ultra (GCM and ACM boards). The second power supply (250W) connects to the dedicated lock power inputs on the ACM boards, providing an efficient method to manage power to each separate locking device. PSX Dual Voltage Power System offers optional fire alarm interface (FAI) control for power and control of locks, and other devices.

PSX Dual Voltage Power System provides fault relay outputs for connection to inputs on the iSTAR Ultra. One relay output is connected to the power fail input and indicates loss of AC power to the PSX Dual Voltage Power System. The second relay output is connected to the low battery or fault input, and indicates low battery or a problem within the power supply. The relays from both power supply units may be interconnected, if desired.

The unit is equipped with LED indicators which indicate current status. The unit will accept an optional remote management device providing remote monitoring, remote battery testing, along with many other capabilities. A network monitoring module is available as an option. The PSX Network Communication Board provides the PSX Dual Voltage Power System with the ability to offer remote monitoring and control over LAN/WAN.

With the optional PSX Power Solutions Network Communication Module, power supplies, battery condition, fault status, and temperature may be monitored and configured for remote notification via email or SNMP. Remote battery testing of either battery set may be implemented manually or on a scheduled basis.

Specifications

Power

System power 150W, 12A/12V DC
Lock power 250W, 20A/12V or 10A/24V DC

Power Inputs

Voltage 120V AC, 60 Hz
Power 452W, AC maximum

DC Power Outputs

Voltage
PSX-150 12.5V DC
PSX-250 12.5V/25V DC
Current
PSX-150 12A DC
PSX-250 20/10A DC
Protection
PSX-150 Electronic protection and fusing (15A)
PSX-250 Electronic protection and fusing (30A)

AC Fault

Output Form C dry contact
Activation AC power failure, blown AC fuse

Low Battery

Output Form C dry contact
Activation Below 10.2 / 20.4V DC

Battery Charge (PSX-150 and PSX-250)

Maximum Ah Rating 80Ah
Minimum Ah Rating 2Ah
Battery Recharge time 80Ah/48 hours
Battery Space
Wall Mount 4/12Ah batteries
Rackmount None; use PSX-RBE

Physical

Dimensions (W x L x H)
Rackmount 48.3 x 9 x 36 cm (19 x 3.5 x 14 in)
Wall Mount 50.8 x 40.16 x 11.4 cm (20 x 16 x 4.5 in)
Weight
Rackmount 8.6 kg (19 lbs)
Wall Mount without Battery 3.5 kg (7.7 lbs)
Battery Weight (single) 6.1 kg (13.5 lbs)
Housing for Rackmount
and Wall Mount 16 gauge carbon steel
Operating Temperature 0° to 50°C (32° to 122°F)
Heat Dissipation 123 BTU/hr

Regulatory

Tested by ETL UL294, UL603, UL1076,
FCC Part 15 Subpart B, ULC S318, ULCS319,
ULCS527, CSA C22.2#107.1, CSA 22.2
#60950, CSFM Approved / CE / RoHS
Tested by UL UL294, UL603, FCC Part 15 Subpart B
(Wall Mount Only)

Ordering Information

| Model Numbers | Description |
|---------------|---|
| PSX-ISU-RD | PSX rackmount with dual voltage, 120V AC |
| PSX-ISU-E2 | PSX wall mount with dual voltage, 120V AC |
| PSX-150-MB | 150W PSU board only, 120V AC |
| PSX-250-MB | 250W PSU board only, 120V AC |
| PSX-NL2 | Network communication board, two ports |
| PSX-RBE | PSX Power Solutions rackmount battery enclosure, fits 4/8Ah batteries |

Related Products



C•CURE 9000



iSTAR Controllers



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Approvals

