Overview

MCLASS™ Unified Power Systems combine FlexPower® power modules alongside Mercury Security™ access hardware in one compact and secure UL Listed solution. This unit is a 12V and 24V DC dual voltage network managed access power system. Dual M8 lock control modules provide sixteen access control inputs capable of voltage or dry contact activation, and sixteen outputs programmable for failsafe / failsecure operation at either 12 or 24 VDC and controlled by the integrated fire alarm interface circuit on the FPO. Dual D8P modules provide sixteen auxiliary Class 2 power limited outputs and each output is configurable for 12 or 24VDC operation.

MCLASS enclosures are painted steel with removable backplate and include lock, two (2) keys and tamper switch.

System Features

- **FPO offline power supply**
  - 120 or 230 VAC input
  - 12 and 24 VDC outputs
  - On-board Fire Alarm Interface
  - Continuous and Resettable DC

- **Distributed outputs**
  - Sixteen auxiliary - power limited at 2.5A each
  - Sixteen managed - fused at 3A each

- **Remote Monitoring & Control**
  - Live voltage / current reporting
  - Remote battery load testing
  - Output power cycling and abnormal operation alert
  - System / AC fault reporting

- **Lifetime Warranty**

Specifications

<table>
<thead>
<tr>
<th>Input Power</th>
<th>120/230 VAC 50/60 Hz</th>
<th>452 Watts</th>
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<tbody>
<tr>
<td></td>
<td>Overload and short circuit protection</td>
<td></td>
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<td></td>
<td>Over temperature protection</td>
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<td></td>
<td>Polarized AC power supply disconnect</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Output Power</th>
<th>120V/12A or 24V/6A</th>
<th>150 Watts</th>
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<tbody>
<tr>
<td></td>
<td>120V/20A or 24V/10A</td>
<td>250 Watts</td>
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<tr>
<td></td>
<td>Outputs: Continuous (DC1) Resettable (DC2)</td>
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<tr>
<td></td>
<td>16 managed lock control outputs fused at 3.0 Amps per output</td>
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<tr>
<td></td>
<td>16 auxiliary outputs Class 2 power limited at 2.5 Amps per output</td>
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<tr>
<td></td>
<td>120 milliamp output voltage ripple</td>
<td></td>
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<tr>
<td></td>
<td>System Efficiency: 87%</td>
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<td></td>
<td>System BTU Rating: 175 BTU/Hr</td>
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Battery Charging

- Independent built-in 2A charger for sealed lead acid or gel type batteries
- Microprocessor dual rate charging of 12 or 24 V battery sets
- Charges up to 80Ah battery sets within UL limit
- Automatic switchover to standby battery when AC fails
- Zero voltage drop when switched over to battery backup

Supervision

- AC Fail (form "C" contacts)
- System Fault (form "C" contacts) may be triggered by low/no battery, short to earth ground, power supply failure or blown fuse

Visual Indicators

- AC input, DC1 and DC2 output
- System fault / AC fault
- Short to earth ground
- Reverse battery polarity
- Fire Alarm Input activated
- D8P: DC outputs
- M8: DC input, output and fault

Regulatory Compliance (LSP equipment)

- UL294, UL603, UL864, UL1076, UL1481, UL2044, UL2572
- ULC S318, ULC S319, ULC S527, CSA C22.2 #107.1, CSA C22.2 #60950
- FCC Part 15, Subpart B / CSFM Approved

Enclosure Dimensions

- Size: 36.00H x 30.00W x 4.50D in. (91.00 x 76.00 x 11.50 cm)
- Weight: 80 lbs.

Access Panel Mounting

Enclosure Features

- Custom Backplate
  - Light weight aluminum with AC and battery slots to protect cables
  - LSP pre-wired power modules reduce installation time
  - Vertical Mercury pattern for maximum design flexibility
  - Wide wire management channels for panduit or tye wrap

- E8 Enclosure
  - Protected AC cover with on/off circuit breaker for maintenance safety
  - Pre-drilled mounting holes for field upgrades
  - 4.5” cabinet depth accommodates large battery sets
  - Removable door with “fast disconnect” ground strap
  - Multiple knockouts all four sides

LifeSafetyPower.com

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Specifications subject to change without notice.

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