Overview

MCLASS™ Unified Power Systems combine FlexPower® power modules alongside Mercury Security™ access hardware in one compact and secure UL Listed solution.

The FPO Power Supply / Battery Charger provides two power outputs user selectable for 12 or 24 VDC. One output provides continuous output power for system use, the second is resettable output power, activated when the fire alarm disconnect is initiated.

For access or lock power, two D8P modules provide sixteen class 2 power limited outputs rated at 2.5A per output, each individually programmable for constant output or FAI disconnect.

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 or 24 VDC output
  - On-board Fire Alarm interface
  - Continuous and resettable DC

- **Distributed outputs**
  - Sixteen auxiliary class II power limited at 2.5A each

- **Expansion options**
  - Increased power, multiple voltages
  - Additional distribution outputs
  - Network monitoring and reporting

- **Lifetime Warranty**

Enclosure Features

- **Labor saving design**
  - Pre-wired power section
  - Pre-punched knockouts
  - Removable backplate simplifies installs
  - Pre-defined hole pattern for power section
  - Access panels mount on threaded standoffs - no drilling required

- **Additional benefits**
  - Wire management room
  - 4.5” enclosure depth fits battery set
  - Tamper switch, lock, dual key set standard
  - Mounting hardware for access boards included

Specifications

**Input Power**

- Input: 120/230 VAC 50/60 Hz | 170 Watts (1.42A)
- Overload and short circuit protection
- Over temperature protection
- Polarized AC power supply disconnect

**Output Power**

- FPO150: 12V/12A or 24V/6A | 150 Watts
- Outputs: Continuous (DC1) Resettable (DC2)
- 16 auxiliary outputs, class II power limited at 2.5A each
- 120 mV output voltage ripple
- System Efficiency: 87% | System BTU Rating: 66 BTU/Hr

**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
- DBP: DC outputs

**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: 75 lbs.

**Access Panel Mounting**


Ordering

<table>
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<th>Description</th>
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<tbody>
<tr>
<td>FPO150-2D8PE8M1</td>
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Ordering Information

- UL Listed
- CSA Approved
E8M1 Mercury Mounting Guide

<table>
<thead>
<tr>
<th>Mercury</th>
<th>Slots</th>
<th>Area</th>
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<tbody>
<tr>
<td>MR52 / EPxx</td>
<td>10</td>
<td>6 x 8</td>
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<tr>
<td>MR16in / MR16out</td>
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<td>6 x 8</td>
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<td>EP2500 / MUX8</td>
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<td>MR50</td>
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<td>4.25 x 2.75</td>
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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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