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 access power system. Two C8 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. Two D8 modules provide sixteen auxiliary Class II 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 retestable DC
- **Distributed outputs**
  - Sixteen auxiliary class II power limited at 2.5A each
  - Sixteen controlled, fused at 3A each
- **Expansion options**
  - Increased power, multiple voltages
  - Additional distribution outputs
  - Network monitoring and reporting

Enclosure Features
- **Labor saving design**
  - Pre-wired power section
  - Pre-punched knockouts
  - Removeable backplate simplifies installs
  - Pre-defined hole pattern for power section
  - Access panels mount on threaded standoffs - no drilling required
- **Additional benefits**
  - Wire management room
  - 6.5" enclosure depth fits battery set
  - Tamper switch, lock, dual key set standard
  - Mounting hardware for access boards included

Specifications

<table>
<thead>
<tr>
<th>Input Power</th>
<th>Output Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input 120/230 VAC 50/60 Hz</td>
<td>452 Watts</td>
</tr>
<tr>
<td>Overload and short circuit protection</td>
<td>Over temperature protection</td>
</tr>
<tr>
<td>Polarized AC power supply disconnect</td>
<td></td>
</tr>
<tr>
<td><strong>FPO150</strong>: 12V/12A or 24V/6A</td>
<td><strong>FPO250</strong>: 12V/20A or 24V/10A</td>
</tr>
<tr>
<td><strong>FP0150</strong>: 12V/12A or 24V/6A</td>
<td><strong>FP0250</strong>: 12V/20A or 24V/10A</td>
</tr>
<tr>
<td>16 control outputs, fused at 3A each</td>
<td>250 Watts</td>
</tr>
<tr>
<td>16 auxiliary outputs, class II power limited at 2.5A each</td>
<td>Outputs: Continuous (DC1) Resettable (DC2)</td>
</tr>
<tr>
<td>120 mV output voltage ripple</td>
<td>16 control outputs, fused at 3A each</td>
</tr>
<tr>
<td>System Efficiency: 87%</td>
<td>16 auxiliary outputs, class II power limited at 2.5A each</td>
</tr>
<tr>
<td>System BTU Rating: 175 BTU/Hr</td>
<td>120 mV output voltage ripple</td>
</tr>
</tbody>
</table>

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**
- **C8**: DC input / output and Fault
- **D8P**: DC outputs

Regulatory Compliance
- UL294, UL503, UL1076, ULC S318, ULC S319
- CSA C22.2 #107.1, CSA 22.2 #60090
- CSFM / FCC Part 15, Subpart B
- CE

Enclosure Dimensions
- Size: 36.00H x 30.00W x 6.50D in. (91.00 x 76.00 x 16.50 cm)
- Weight: 80 lbs.

Access Panel Mounting
- LP1501, LP1502, LP4502, LP2500, MR50, MR51e, MR52, MR16, LNL-500, 1100, 1200, 1300, 1320, 2000, 2210, 2220, 3300

### Ordering
<table>
<thead>
<tr>
<th>Description</th>
<th>FPO150/250-2C82D8PE8M1</th>
</tr>
</thead>
<tbody>
<tr>
<td>400W (12V &amp; 24V) 16 lock, 16 aux outputs</td>
<td>400W (12V &amp; 24V) 16 lock, 16 aux outputs</td>
</tr>
</tbody>
</table>
**FLEXPOWER FP0150/250-2C82D8PE8M1**

**E8M1 Mercury Mounting Guide**

<table>
<thead>
<tr>
<th>Mercury</th>
<th>Slots</th>
<th>Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>MR52 / LPxx</td>
<td>10</td>
<td>6 x 8</td>
</tr>
<tr>
<td>MR16in / MR16out</td>
<td>10</td>
<td>6 x 8</td>
</tr>
<tr>
<td>LP2500 / MUX8</td>
<td>6</td>
<td>6 x 5</td>
</tr>
<tr>
<td>LP1501 / MR51e</td>
<td>1</td>
<td>5.5 x 3.6 (bracket)</td>
</tr>
<tr>
<td>MR50</td>
<td>1</td>
<td>4.25 x 2.75</td>
</tr>
</tbody>
</table>

**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
  - 6.5" cabinet depth accommodates large battery sets
  - Removable door with "fast disconnect" ground strap
  - Multiple knockouts all four sides

**LifeSafetyPower.com**

(888) 577-2898
info1@lifesafetypower.com

Specifications subject to change without notice.

© 2020 LifeSafety Power. All rights reserved. LifeSafety Power and FlexPower are registered trademarks of LifeSafety Power. This literature is for guidance only. It does not constitute recommendations, representation, or advice, nor is it part of any contract. Our policy is one of continuous product improvement, and the right is reserved to modify the specifications contained herein without notice.

P01-742A 07/20

**LifeSafety Power**
899 E Park Avenue
Libertyville, IL 60048 USA