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. One M8 managed control module provides eight access control inputs capable of voltage or dry contact activation, and eight outputs programmable for failsafe / failsecure operation at either 12 or 24 VDC and controlled by the integrated fire alarm interface circuit on the FPO. All inputs / outputs are software controlled for remote operation. One D8P module provides eight auxiliary class II 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**
  - 8 auxiliary - power limited at 2.5A each
  - 8 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
  - Email and SNMP trap notification
- **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

<table>
<thead>
<tr>
<th>Input Power</th>
<th>Output Power</th>
<th>Battery Charging</th>
<th>Supervision</th>
<th>Visual Indicators</th>
<th>Regulatory Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input 120/230 VAC 50/60 Hz</td>
<td>120 mV output voltage ripple</td>
<td>Independent built-in 2A charger for sealed lead acid or gel type batteries</td>
<td>AC Fail (form &quot;C&quot; contacts)</td>
<td>AC input, DC1 and DC2 output</td>
<td></td>
</tr>
<tr>
<td>170 Watts (1.41 Amps)</td>
<td>System Efficiency: 88%</td>
<td>Microprocessor dual rate charging of 12 or 24 V battery sets</td>
<td>System fail (form &quot;C&quot; contacts) may be triggered by low/no battery, short to earth ground and power supply failure</td>
<td>System fault</td>
<td></td>
</tr>
<tr>
<td>Overload and short circuit protection</td>
<td>150W maximum combined output power</td>
<td>Automatic switchover to standby battery when AC fails</td>
<td>AC fault</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Over temperature protection</td>
<td>4A@12V and 4A@24V DC</td>
<td>Zero voltage drop when switched over to battery backup</td>
<td>Short to earth ground</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polarized AC power supply disconnect</td>
<td>8 auxiliary outputs, class II rated at 2.5 Amps per output</td>
<td>Reverse battery polarity</td>
<td>Fire Alarm Input activated</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>8 managed outputs, fused at 3 Amps per output</td>
<td></td>
<td>B100: DC input / output and Fault</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>120 mV output voltage ripple</td>
<td></td>
<td>D8P: DC output</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>System BU T Rating: 66 BTU/Hr</td>
<td></td>
<td>M8: DC input / output and Fault</td>
<td></td>
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</tr>
</tbody>
</table>

Regulatory Compliance
- UL294, UL603, UL1076, ULC S318, ULC S319
- CSA C22.2 #107.1, CSA 22.2 #60950
- CSFM / FCC Part 15, Subpart B
- CE

Enclosure Dimensions
- Size: 24.00H x 20.00W x 4.50D in. (61.00 x 51.00 x 11.50 cm) | Weight: 25 lbs

Access Panel Mounting
Universal Mercury Mounting Pattern

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</thead>
<tbody>
<tr>
<td>Slots w/Power</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Slots all Mercury</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>12</td>
<td>12</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>E4M1 (adds six MR door panels)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slots w/Power</td>
</tr>
<tr>
<td>Slots all Mercury</td>
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</tbody>
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