ELECTRICAL RATINGS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>FP0250</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Voltage</td>
<td>120 / 230</td>
<td>VAC</td>
</tr>
<tr>
<td>Input Power (max)</td>
<td>282</td>
<td>Watts</td>
</tr>
<tr>
<td>Output Voltage</td>
<td>12 or 24</td>
<td>VDC</td>
</tr>
<tr>
<td>Output Current</td>
<td>20 or 10</td>
<td>Amps</td>
</tr>
<tr>
<td>Battery Charge Capacity</td>
<td>80</td>
<td>Ah</td>
</tr>
<tr>
<td>Efficiency</td>
<td>87</td>
<td>%</td>
</tr>
<tr>
<td>Output Ripple</td>
<td>120</td>
<td>mVp-p</td>
</tr>
<tr>
<td>Line Regulation</td>
<td>0.1</td>
<td>±%</td>
</tr>
<tr>
<td>Load Regulation</td>
<td>2</td>
<td>±%</td>
</tr>
<tr>
<td>BTU Rating</td>
<td>109</td>
<td>BTU/Hr</td>
</tr>
<tr>
<td>Continuous Power Outputs</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Switched Power Outputs</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Fire Alarm Interface</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>

DESCRIPTION

The FlexPower FP0250-F8PE1 is an offline switchmode power supply-battery charger system specifically designed for multi-output general purpose power distribution. All eight outputs are programmable for continuous, disabled, or enabled power output, under FAI control.

The power supply board interfaces to a Lock Distribution Board F8P, which has 8 Class 2 outputs used to power electric locking devices. The F8P board also includes Fire Alarm Interface (FAI) circuitry and configurable fail-safe/fail-secure modes of operation.

The power supply is user selectable for 12 or 24VDC and is configured in a painted, steel, locking enclosure with tamper switch and integral battery space. Complete fault detection and reporting, with programmable fault delays, is provided along with datalogging capability of fault occurrence, battery usage time and current power supply status.

BENEFITS

- Agency Listed for Access Control, Fire, Security, CCTV, and Mass Notification
- FlexPower Feature Set
  - SureCharge: Microprocessor controlled battery charging
  - PowerCom: Power supply programming / monitoring software
  - VSelect: Installer selectable output voltage
  - TruWatt: Delivers twice the current at 12V than at 24V
  - FlexConnect: Dual voltage bus / pre-wired accessory board interconnects
  - Reliability+: Full fault protection / high efficiency / fiberglass pcb
  - GreenSmart: RoHS compliant, lead free, energy efficient design
  - DataLink: USB or Network communication interface (requires optional USB cable or NL1 DATALINK network module)
- System Features
  - Fully modular power management system
  - Multiple outputs for system power, direct lock control and accessory power distribution modules
  - Fire alarm interface for egress lock control (FAI)
  - Configurable fail-safe / fail-secure modes of operation
  - Comprehensive fault detection and reporting including optional earth ground and battery presence
  - AC and System fault output relays can be delayed via PowerCom
  - Microprocessor dual rate charging restores battery sets from 4 to 80 amphotours
- Power Management & Reporting (patent pending)
  - PowerCom s/w monitors, programs, and reports on power supply core functions through a computer USB or network connection
  - Service personnel can perform on site power supply programming and system diagnostics using the DL1 USB cable and a computer laptop
  - NL1 DataLink module connects power supply to a LAN/WAN network for remote power supply programming and diagnostics. Monitors and reports system status, battery state, generates email or SNMP notification of system trouble or time to service alert
- Ten Year Warranty

AGENCY LISTINGS

USA
- UL 294
- UL 1481
- UL 603
- UL 2044
- UL 864
- UL 2572
- UL 1076
- FCC Part 15, Subpart B
- CSA C22.2 #107.1
- CSA 22.2 #60950

CANADA
- ULC S318
- ULC S319
- ULC S527
- CSA C22.2 #107.1
- Ontario ESA
**FLEXPOWER® STANDARD FEATURES**

**SureCharge** The microprocessor controlled charging process used by the FlexPower power supply guarantees both proper charging current for the battery and fastest charge time. The constant current charger provides a linear, predictable charge time for any lead acid, gel battery set from 4 to 80 amperous (based on charger rating) without stress or damage to the battery.

**PowerCom/PowerCom-USB** LifeSafety Power’s proprietary software interface for communication with FlexPower equipment through a DATALINK or USB connection. PowerCom is used for power supply monitoring, programming, and reporting.

The NL1 DATALINK network module enhances PowerCom’s capability with remote diagnostics, battery management, trouble / service email alerts via LAN/WAN, and remote on/off reset control.

The DL1 USB cable and a computer laptop USB connection, enables PowerCom-USB to be used by service personnel for onsite power supply programming and system diagnostic evaluation.

**VSelect** One single switch for configuring the output between 12 and 24VDC eliminates field errors and allows for the reduction and simplification of service inventory by eliminating the necessity of stocking units in each voltage.

**TruWatt** Output power capability of the power supply remains constant regardless of the output voltage setting. For example, a FlexPower 24V DC 10 Amps output power supply will provide 10 amps at 24VDC and 20 amps at 12VDC, allowing the same number of locking devices to be used at either the 12 or 24V setting.

**FlexConnect** The FlexPower series provides a prewired interconnection system between the power supply and accessory boards of the power system that introduces the concept of a dual voltage bus structure throughout all system modules and eliminates intermodulate wiring by the field installer.

Field upgrading or expansion is as simple as using common mounting footprints, predrilled mounting holes, snap-in standoffs, and pluggable wires to add additional system capability or capacity when needed, all without restrictive agency listing issues.

**Reliability+** All power supplies within the FlexPower system are fully fault protected and feature fiberglass printed circuit boards rather than paper-based to protect the electronics from water and other corrosive elements found in industrial settings. High efficiency power supply design promotes low heat generation leading to a longer service life.

**GreenSmart** All members of the FlexPower family are RoHs compliant, lead-free, and meet the latest state, federal and European requirements for energy efficiency.

**DataLink Smart Power Management Communication Interface**

Monitor, program, control, and report key power supply functions by computer or local/wide area network using a browser interface or LifeSafety Power’s PowerCom® remote management software.

Power supply network connection requires the optional NL1 network module. Power supply computer connection requires the optional DL1 USB cable.

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**FAULT DETECTION AND REPORTING**

The comprehensive fault detection and reporting mechanism of the FPO series provides for both local and remote fault reporting.

On-board visual indicators are provided to give immediate installer feedback. Independent form C relay contacts are provided to report AC and system fault conditions to remote or auxiliary equipment. A door tamper switch is included.

**Detected Fault Conditions:**

- **AC Power**
  - AC loss, AC low
- **DC Power and System**
  - Abnormal or loss of power supply operation
  - Over current, over temperature condition
  - DC output high, low
  - Battery presence (optional)
  - Earth ground (optional)
  - Power supply / accessory board blown fuse or loss of output voltage

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**FIRE ALARM DISCONNECT (FAI)**

- Eight power distribution outputs, generally used for fire alarm control of egress locks or magnetic door holders. Individually programmable to either continuous or FAI switched mode (resettable) with the switched mode programmable to either failsecure or failsafe.
  - **F8** 3.0A fused per output
  - **F8P** 2.5A class 2, power limited per output
  - DC Presence: Green LED per output
  - Removable terminals: accepts #14 to #24 AWG

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**PERFORMANCE GRAPHS**

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**FLEXPOWER® STANDARD FEATURES**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Type</th>
<th>Mechanical Info</th>
</tr>
</thead>
<tbody>
<tr>
<td>FPO250-F8E1</td>
<td>Fused</td>
<td>Size: 12” x 14” x 4.5”</td>
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<tr>
<td>FPO250-F8PE1</td>
<td>Power Limited</td>
<td>Weight: 10 lb.</td>
</tr>
</tbody>
</table>

Red cabinet also available order - FPO250-F8E1R / FPO250-F8PE1R

**FlexPower Numbering System**

- **FlexPower series**
- **Power rating (W)**
- **FP0100 – C8 / D8 – E2**
- **Enclosure**
- **Accessory module**
- **Accessory quantity** (more than 1)

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info@lifesafetypower.com

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