# FlexPower
# Expandable DC Power Systems

Single, dual, and multi-voltage power systems in enclosures for simple requirements or for expansion with LSP accessory boards. Multiple enclosure sizes available.



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E1 Enclosure

| Power Type | Output | Size |
|---|---|---|
| FPO75-E1 | Single Voltage | 75W | 14x12x4.5 |
| FPO75-B100E1 | Dual Voltage | 75W | 14x12x4.5 |
| FPO75-2B100E1 | Triple Voltage | 75W | 14x12x4.5 |
| FPO150-E1 | Single Voltage | 150W | 14x12x4.5 |
| FPO150-B100E1 | Dual Voltage | 150W | 14x12x4.5 |
| FPO150-2B100E1 | Triple Voltage | 150W | 14x12x4.5 |
| FPO250-E1 | Single Voltage | 250W | 14x12x4.5 |
| FPO250-B100E1 | Dual Voltage | 250W | 14x12x4.5 |

## E2 Enclosure

| Power Type | Output | Size |
|---|---|---|
| FPO75-E2 | Single Voltage | 75W | 20x16x4.5 |
| FPO75-B100E2 | Dual Voltage | 75W | 20x16x4.5 |
| FPO75/75-E2 | Dual Voltage | 150W | 20x16x4.5 |
| FPO75/150-E2 | Dual Voltage | 225W | 20x16x4.5 |
| FPO75/250-E2 | Dual Voltage | 325W | 20x16x4.5 |
| FPO150-E2 | Single Voltage | 150W | 20x16x4.5 |
| FPO150-B100E2 | Dual Voltage | 150W | 20x16x4.5 |
| FPO150/150-E2 | Dual Voltage | 300W | 20x16x4.5 |
| FPO150/250-E2 | Dual Voltage | 400W | 20x16x4.5 |
| FPO250-E2 | Single Voltage | 250W | 20x16x4.5 |
| FPO250-B100E2 | Dual Voltage | 250W | 20x16x4.5 |
| FPO250/250-E2 | Dual Voltage | 500W | 20x16x4.5 |

## E4 Enclosure

| Power Type | Output | Size |
|---|---|---|
| FPO75-E4 | Single Voltage | 75W | 24x20x6.5 |
| FPO75-B100E4 | Dual Voltage | 75W | 24x20x6.5 |
| FPO75/75-E4 | Dual Voltage | 150W | 24x20x6.5 |
| FPO75/150-E4 | Dual Voltage | 225W | 24x20x6.5 |
| FPO75/250-E4 | Dual Voltage | 325W | 24x20x6.5 |
| FPO150-E4 | Single Voltage | 150W | 24x20x6.5 |
| FPO150-B100E4 | Dual Voltage | 150W | 24x20x6.5 |
| FPO150/150-E4 | Dual Voltage | 300W | 24x20x6.5 |
| FPO150/250-E4 | Dual Voltage | 400W | 24x20x6.5 |
| FPO250-E4 | Single Voltage | 250W | 24x20x6.5 |

| | | | |
|---|---|---|---|
| FPO250-B100E4 | Dual Voltage | 250W | 24x20x6.5 |
| FPO250/250-E4 | Dual Voltage | 500W | 24x20x6.5 |

**System Features**

The FlexPower Expandable Power Systems offer single, dual, or multi-voltage power systems housed in various enclosure sizes for simple power requirments or to be expanded with LSP accessory modules in the field.

Listed modular accessories that can be added to any system include: power distribution, relay based lock control, egress lock control, secondary voltage and network connection.

Each FPO power supply provides one pair of outputs, user selectable for 12 or 24 VDC, the unit is configured in a painted, steel, locking enclosure with tamper switch and integral battery space. One output of a pair provides continuous output power for system use, the second is programmable for either fail-safe or fail-secure operation, activated when the fire alarm disconnect is initiated. Models with a B100 provide dual voltage output with a single AC connection.

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.

[/tab] [tab title="Overview"]

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FlexPower accessory boards can be added to a FlexPower system in ANY combination based on job requirements and system retains its complete agency listing.

## Product highlights

- 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/li>
- Microprocessor smart charging restores battery sets from 4 to 80 amphours
- Adding a NetLink 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

## Reliability and Safety

- Lifetime warranty
- RoHS Compliant

## Agency Listings

- UL 294 / UL 603 / UL 1076
- ULC S318, 319
- FCC Part 15, Subpart B
- CSA C22.2 #205
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## Product Warranty

[/tab] [tab title="Technical Documents"]

| Model # | Datasheet | Install Manual | CAD Files | Agency |
|---|---|---|---|---|
| FPO75-E1 | DS | IM | CAD | AG |
| FPO75-B100E1 | DS | IM | CAD | AG |
| FPO75-2B100E1 | DS | IM | CAD | AG |
| FPO150-E1 | DS | IM | CAD | AG |
| FPO150-B100E1 | DS | IM | CAD | AG |
| FPO150-2B100E1 | DS | IM | CAD | AG |
| FPO250-E1 | DS | IM | CAD | AG |
| FPO250-B100E1 | DS | IM | CAD | AG |
| FPO75-E2 | DS | IM | CAD | AG |
| FPO75-B100E2 | DS | IM | CAD | AG |
| FPO75/75-E2 | DS | IM | CAD | AG |
| FPO75/150-E2 | DS | IM | CAD | AG |
| FPO75/250-E2 | DS | IM | CAD | AG |
| FPO150-E2 | DS | IM | CAD | AG |
| FPO150-B100E2 | DS | IM | CAD | AG |
| FPO150/150-E2 | DS | IM | CAD | AG |

| | | | | | |
|---|---|---|---|---|---|
| FPO150/250-E2 | DS | IM | CAD | AG |
| FPO250-E2 | DS | IM | CAD | AG |
| FPO250-B100E2 | DS | IM | CAD | AG |
| FPO250/250-E2 | DS | IM | CAD | AG |
| FPO75-E4 | DS | IM | CAD | AG |
| FPO75-B100E4 | DS | IM | CAD | AG |
| FPO75/75-E4 | DS | IM | CAD | AG |
| FPO75/150-E4 | DS | IM | CAD | AG |
| FPO75/250-E4 | DS | IM | CAD | AG |
| FPO150-E4 | DS | IM | CAD | AG |
| FPO150-B100E4 | DS | IM | CAD | AG |
| FPO150/150-E4 | DS | IM | CAD | AG |
| FPO150/250-E4 | DS | IM | CAD | AG |
| FPO250-E4 | DS | IM | CAD | AG |
| FPO250-B100E4 | DS | IM | CAD | AG |
| FPO250/250-E4 | DS | IM | CAD | AG |

[/tab] [tab title="Support"]

Troubleshooting Guide Factory Contact Business Contact

FPO Troubleshooting Email Customer Service Accounting Office

Accessory Troubleshooting Email Technical Department Area Sales Representatives

[/tab] [tab title="Tools & Software"] **Tools & Software**

Excel spreadsheets designed by the LifeSafety Power technical department to aid the installer in required calculations and example configurations of LifeSafety Power equipment when used in commonly found system applications.

Calculators / Software

PowerCom-USB Download

Ohms Law Calculator

Battery Size Calculator

Battery Capacity Calculator

Wire Size Calculator

Voltage Drop Calculator

FlexCalculator Suite

Application Notes

AN01_Standard DC Product

AN08_Dual buss distribution architecture

AN09_E2 cabinet battery guide

AN16_A8 programming

AN17_D8 single voltage

AN18_D8 dual voltage

AN19_FlexPower buss structure

AN20_LSP Monitoring Guide

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