LifeSafetyPower®

FLEXPOWER FPO150/250-2C82D8E4

400W, 16 Door Access
Dual Voltage
16 Lock Outputs, 16 Auxiliary Outputs

DESCRIPTION

The FLEXPOWER FPO150/250-2C82D8E4 is a dual voltage, offline switch-mode power supply-battery charger system specifically designed for the access control segment of the lifesafety industry.

The unit is configured in a painted, steel, locking enclosure with tamper switch and integral battery space, and provides two power supplies, each of which can be set to 12 or 24V.

Sixteen auxiliary outputs are provided for readers, REX devices, or other similar units with each output selectable for either power supply.

Sixteen access controlled trigger inputs control sixteen relay based lock outputs, with each output selectable for either power supply, and programmable for fire alarm disconnect, failsafe, failsecure, or dry contact operation.

Complete fault detection and reporting, with programmable fault delays, is provided along with datalogging capability of fault occurrence, battery usage time and 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
  - ***PwrHealth*** Intelligent battery charging and battery state monitoring
  - ***FlexConnect*** Dual voltage bus / pre-wired accesory board interconnects
  - ***Reliability+*** Full fault protection / high efficiency / fiberglass pcb
  - ***GreenSmart*** RoHS compliant, lead free, energy efficient design
  - ***DataLink*** Network communication interface option
- ***System Features***
  - Fully modular power management system
  - Multiple outputs for system power, direct lock control and accessory power distribution modules
  - Each distributed output is selectable for either continuous or switched DC in single voltage systems, or 12/24VDC in dual voltage systems
  - 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 80Ah
- ***Power Management & Reporting*** *(U.S. Patent 8,566,651)*
  - NetLink module option connects power system to a LAN/WAN network for remote programming and live diagnostics. NetLink monitors and reports power status, tests battery state and alerts via email/SNMP on system faults, AC loss, low battery or pre-scheduled service due
- ***Lifetime Warranty***

ELECTRICAL RATINGS

Parameter	Rating FPO150	Rating FPO250	Unit
Input Voltage	120 / 230	120 / 230	VAC
Input Power (max)	170	282	Watts
Output Voltage	12 or 24	12 or 24	VDC
Output Current	12 or 6	20 or 10	Amps
Battery Charge Capacity	80	80	Ah
Efficiency	88	88	%
Output Ripple	120	120	mVp-p
Line Regulation	0.1	0.1	±%
Load Regulation	2	2	±%
BTU Rating	175		BTU/Hr
Main Power Outputs *continuous and switched*	2	2	
Distributed Power Outputs *16 continuous or switched (2D8) 16 relay controlled (2C8)*	32 3A each		
Fire Alarm Interface	Yes		

AGENCY LISTINGS

USA	CANADA
UL 294	ULC S318
UL 603 UL 2044	ULC S319
UL 1076	CSA C22.2 #205
FCC Part 15, Subpart B	CSA 22.2 #60950
CSFM Approved	

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 amphours (based on charger rating) without stress or damage to the battery.

PowerCom/PowerCom-USB The NL2/NL4 NetLink network module enhances PowerCom's capability with remote diagnostics, battery management, trouble / service email alerts via LAN/WAN, and remote on/off reset control.

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 250 watt 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 intermodule 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 local/wide area network using a browser interface.

Power supply network connection requires the optional NL2/NL4 network module.

Model No.	Type	Mechanical Info
FPO150/250-2C82D8E4	Fused	Size: 24" x 20" x 6.5"
FPO150/250-2C8P2D8PE4	Power Limited	Weight: 65 lb.

FlexPower Numbering System

FPO 75/150 – C8 2D8 – E4

- FPO 75/150 – *FlexPower series PS1 / PS2 (watts)*
- C8 2D8 – *Enclosure / Accessory module*
- E4 – *Accessory quantity (more than 1)*

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, Earth Ground (user optional)
  - Reversed battery condition, blown fuse or loss of output voltage on selected accessory boards (detected on the power supply)

FIRE ALARM INTERFACE (FAI)

- *Activation Methods*
  - DC voltage: 9 to 33VDC, 3 to 15mA
  - Dry contact NO/NC
- *Latch Enable: NC contact set or switch (typically for Canadian use)*

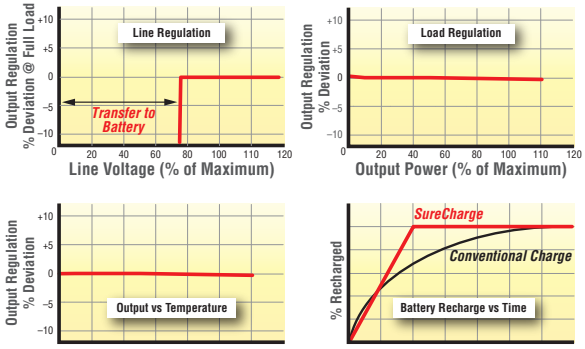
LOCK CONTROL MODULE (C8, C8P)

- *Eight access control trip inputs*
  - Capable of activation by voltage or NO/NC dry contact
- *Eight individually protected lock control outputs*
  - Supervised for blown fuse or loss of output voltage
  - Individually programmable at either voltage for: fail-safe, fail-secure, NO/NC, dry contact, and fire alarm interface for control of egress locks
  - ***C8*** 3A fused per output
  - ***C8P*** 2.5A class 2, power limited per output
- *DC Presence: Green LED per output*
- *Removable terminals: accepts #14 to #24 AWG*

POWER DISTRIBUTION MODULE (D8, D8P)

- *Eight power distribution outputs Individually programmable to a continuous output drawn from either buss 1 or buss 2, typically used to program an output for either 12 or 24VDC*
  - ***D8*** 3A fused per output
  - ***D8P*** 2.5A class 2, power limited per output
- *DC Presence: Green LED per output*
- *Removable terminals: accepts #14 to #24 AWG*

PERFORMANCE GRAPHS



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