DESCRIPTION
The FLEXPOWER FP0250-C8D8E2 is a single voltage, offline switchmode 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 one power supply which can be set to 12 or 24V.

Eight auxiliary outputs are provided for readers, REX devices, or other similar units with each output selectable for either continuous or switched DC.

Eight access controlled trigger inputs control eight relay based lock outputs, with each output 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
  ➢ ParHealth Intelligent battery charging and battery state monitoring
  ➢ 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 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)
  ➢ PowerCom® s/w monitors, programs, and reports on power supply core functions through a computer USB or network connection
  ➢ 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

AGENCY LISTINGS

USA
UL 294  UL 1481
UL 603  UL 2044
UL 864  UL 2572
UL 1076
FCC Part 15, Subpart B
CSFM Approved

CANADA
ULC S318
ULC S319
ULC S527
CSA C22.2 #107.1
CSA 22.2 #60950
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 amp hours (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.

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

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
- 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)
- Latch Enable: NC contact set or switch (typically for Canadian use)

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)
- 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

LOCK CONTROL MODULE (C8, C8P)
- Eight access control trip inputs
- Eight individually protected lock control outputs
- Supervised for blown fuse or loss of output voltage
- Individually programmable 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 either continuous or FAI switched mode (resettable) with the switched mode programmable to either fail-safe or fail-safe/mode by the host power supply
- 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

Model No. | Type       | Mechanical Info
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FPO250-C8D8E2 | Fused     | Size: 16 x 20 x 4.5’
FPO250-CBPD8E2 | Power Limited | Weight: 14 lb.

FlexPower Numbering System

FP0100 – C8 – D8 – E2

Enclosure
Accessory module
Accessory quantity (same size)

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