LifeSafety Power

# FLEXPOWER KS150-D8E2

**AC & DC KCLASS System**

**200VA@16.5VAC KEYSCAN POWER**

**12A/12V or 6A/24VDC (250W) LOCK POWER**

FLEXPOWER KCLASS™
ac / dc multi purpose access power


## DESCRIPTION

The FlexPower KS150-D8E2 is a dual voltage power management system which provides both 16.5V AC for Keyscan system power and 12V or 24V DC to power locks (strikes or maglocks).

For Keyscan power, a 200VA transformer provides sixteen, power limited 16.5VAC sources from two separate transformer windings.

One isolated transformer winding powers eight Class 2 outputs designated for panel power, and a second isolated transformer winding provides power for eight Class 2 outputs designated for the battery charge circuits within each panel. For lock and auxiliary power circuits, the FPO DC power supply provides 12 or 24VDC through eight fused, auxilliary outputs. If required, Fire Alarm Interface (FAI) operation is available on each individual output for control of egress locks.

KCLASS systems are configured in a 20x16x4.5" enclosure with lock and tamper switch.

## 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
  - Expansion options include more lock outputs and remote mgmt
  - 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 s/w
  - Microprocessor charging optimizes battery health
- ***Lifetime Warranty***

## ELECTRICAL RATINGS

| Parameter | Rating FPA200A | Rating FPO150 | Unit |
|---|---|---|---|
| Input Voltage | 120 | 120 / 230 | VAC |
| Input Power (max) | 200VA | 170W | VA/Watts |
| Output Voltage | 16VAC | 12 or 24VDC | |
| Output Current | 12 | 12 or 6 | Amps |
| Battery Charge Capacity | – | 80 | Ah |
| Efficiency | – | 87 | % |
| Output Ripple | – | 120 | mVp-p |
| Line Regulation | – | 0.1 | ±% |
| Load Regulation | – | 2 | ±% |
| BTU Rating | 204 | 66 | BTU/Hr |
| Continuous Power Outputs | 8 | 8 | |
| Switched Power Outputs | – | 8 | |
| Fire Alarm Interface | No | Yes | |

| Model No. | | Mechanical Info |
|---|---|---|
| KS150-D8E2 | 8 lock outputs, fused 3A/ea | Size: 20" x 16" x 4.5" |
| KS150-D8PE2 | 8 lock outputs, class 2 pwr ltd 2.5A/ea | Weight: 22lb. |

| Similar Products | Description |
|---|---|
| KS150-2D8E2 | 16 lock outputs, fused 3A/ea |
| KS150-3D8E2 | 24 lock outputs, fused 3A/ea |
| KS150-D8NL1E2 | 8 lock outputs with remote monitoring |

*KCLASS systems can be configured in many additional ways - contact factory with your requirements*

## 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
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 amphours (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 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 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.

## 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)*

## POWER DISTRIBUTION MODULE (A8, A8P)

- *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 24 or 28VAC*
  - ***A8*** 3A fused per output
  - ***A8P*** 2.5A class 2, power limited per output
- *AC 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*



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