

## Overview

Unified Power Solutions for ProdataKey (PDK) integrate system power, lock power and pdk controllers into one LifeSafety Power (LSP) wall mount enclosure.

Red1, Red2, Red4 and Red Aux 8 series controllers and multiple LifeSafety Power FlexPower® devices can be mounted in these access control power systems, which are capable of controlling up to 32 doors.

Available options include single (12 or 24V DC) or dual voltage operation (12 and 24V DC), power distribution and control, individual output protection by either fuses or class 2 power limited, buffered lock control, and remote reporting and test. Each LSP output is protected against electrical surges caused by lightning or transients on the external wiring (SurgeShield) and each LSP control output is individually selectable for available DC voltages, either failsafe or failsecure operation with fire alarm interface.

Optional network reporting capabilities include operational fault status, power supply output, battery charging voltage, battery charging current, and fire alarm input status. In addition to automated and scheduled status reports, diagnostic servicing and battery load tests can be performed remotely, saving or reducing the cost of on-site servicing.

## Product Features

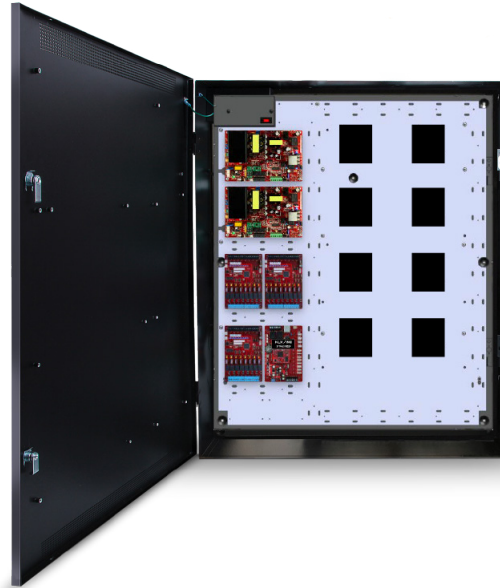
- Labor Saving Design
  - Pre-Wired Power Section
  - Pre-punched Knockouts
  - Flexible backplate mounting locations with threaded studs
  - Comprehensive wire management with internal tie down points
- Integrated access system with lock and system power distribution
- 120 or 230V AC user selectable input and integrated AC main switch (E6 enclosures and up)
- [Advanced locking options](#) available for enhanced security on the enclosure

## Network Monitoring

- Monitor/alert power supply, battery operation and faults
- Remote test battery run time, low battery and time to service alert
- Monitor/power cycle individual outputs (M8/SD16 models)
- Monitor alert external room temperature



**FLEXPOWER®**  
UNIFIED POWER SOLUTIONS



## Configuration Options

- Single voltage or 12 and 24VDC dual voltage options cover all access functions
- Power distribution for either direct (D8) controlled (C8), or managed (M8/SD4/SD16)
- Individual output selection for failsafe, failsecure, lock voltage and fire alarm interface (FAI)
- High capacity battery charge capability
- Automotive fuses for ease of service and replaceability

## Fire Alarm Interface

- Latching or Non-latching | Remote reset capability
- Normally Open, Normally Closed
- Voltage or Polarity Reversal Activation

## Comprehensive Fault Detection and Reporting

- May be connected into access controller or used standalone
- Form C contact transfer for AC Loss or brownout
- Form C contact transfer for abnormal system operation

## Agency Listings

- UL, CUL, CE\*, RoHS

## Lifetime Warranty

## Specifications

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                 |  |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Input Power                            | Input 120/230 VAC 50/60 Hz   83 Watts (FPO75)   170 Watts (FPO150)   287 Watts (FPO250)<br>Thermal overload protection / Short circuit protection                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                 |  |
| Output Power                           | FPO75 75 Watts:<br>FPO150 150 Watts:<br>FPO250 250 Watts:                                                                                                                                                                                                                                                                                                                                       | 6 amps at 12 VDC or 3 amps at 24 VDC<br>12 amps at 12 VDC or 6 amps at 24 VDC<br>20 amps at 12 VDC or 10 amps at 24 VDC                                                                                                                                                         |  |
| Internal Power Distribution            | D8/D8P eight auxiliary outputs:<br>C4/C4P four control outputs:<br>C8/C8P eight control outputs:<br>M8/M8P eight managed lock outputs:<br>SD16 sixteen managed auxiliary outputs:<br>Individually selectable outputs on dual voltage systems                                                                                                                                                    | D8 fused at 3A/ea, D8P Class 2 Power limited at 2.5A/ea<br>C4 fused at 3A/ea, C8P Class 2 Power limited at 2.5A/ea<br>C8 fused at 3A/ea, C8P Class 2 Power limited at 2.5A/ea<br>M8 fused at 3A/ea, M8P Class 2 Power limited at 2.5A/ea<br>SD16 Class 2 Power limited at 1A/ea |  |
| Network Connectivity for Managed Power | NLC 32 managed modules via RS485 and 31 NXBs via OSDP<br>NXB 32 managed modules via RS485                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                 |  |
| Supervision                            | AC input, DC1, and DC2 output<br>Low battery and battery presence supervision (form C contacts)<br>AC fail supervision (form C contacts)<br>System Fault, AC Fault, Ground Fault, Reverse Battery                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                 |  |
| External Indicators                    | AC on                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                 |  |
| Battery Charging                       | Independent built-in charger for sealed lead acid or gel type batteries<br>Microprocessor charging of 12 or 24 V battery sets<br>Automatic switchover to standby battery when AC fails<br>Zero voltage drop when switched over to battery backup                                                                                                                                                |                                                                                                                                                                                                                                                                                 |  |
| Regulatory Compliance                  | CE*, UL294, UL603, UL1076, ULC S318, ULC S319<br>/E Models are CE Compliant                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                 |  |
| Access Panel Mounting                  | Accommodates multiple Red1, Red2, Red4 and Red Aux 8 boards depending on configuration                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                 |  |
| BTU Rating                             | FPO75: 33BTU/hr, FPO150: 66BTU/Hr, FPO250: 175BTU/Hr                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                 |  |
| Operating Temperature                  | ALL MODELS<br>Ambient Temperature 0°C to 49°C (32°F to 120°F)<br>Ambient Humidity 93% at 32°C (90°F) maximum<br>Storage Temperature -30°C to 70°C (-22°F to 158°F)                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                 |  |
| Physical Dimensions                    | E1 Size: 14"H x 12"W x 4.5"D (36 x 30 x 11 cm)   Weight 9 lbs. (4.08 kg)<br>E2 Size: 20"H x 16"W x 4.5"D (51 x 41 x 11 cm)   Weight 14 lbs. (6.35 kg)<br>E4 Size: 24"H x 20"W x 6.5"D (61 x 51 x 17 cm)   Weight 26 lbs. (11.79 kg)<br>E6 Size: 30"H x 23"W x 6.5"D (76 x 58 x 17 cm)   Weight 38 lbs. (17.24 kg)<br>E8 Size: 36"H x 30"W x 6.5"D (91 x 76 x 17 cm)   Weight 53 lbs. (24.04 kg) |                                                                                                                                                                                                                                                                                 |  |

## Ordering

| Doors | Model No.                  | Network | Voltage (VDC) | Current             | Internal Distribution |           |        | Dimensions       |
|-------|----------------------------|---------|---------------|---------------------|-----------------------|-----------|--------|------------------|
|       |                            |         |               |                     | Bulk                  | Auxiliary | Lock   |                  |
| 1     | FPO75-B100C4D8E1PDK        | No      | 12 and 24V    | 2A/12V and 2A/24V   | 3                     | 8         | 4      | 14" x 12" x 4.5" |
| 8     | FPO150-B150M8NLCSD4E2PDK   | Yes     |               | 4A/12V and 4A/24V   | 3                     | 4 MGD     | 8 MGD  | 20" x 16" x 4.5" |
| 16    | FPO250-B1502M8NLCSD16E4PDK | Yes     |               | 6A/12V and 7A/24V   | 3                     | 16 MGD    | 16 MGD | 24" x 20" x 6.5" |
| 24    | FPO150/250-3C82D8E6PDK     | No      |               | 12A/12V and 10A/24V | 4                     | 16        | 24     | 30" x 23" x 6.5" |
| 24    | FPO150/250-3M8NLCSD16E6PDK | Yes     |               | 12A/12V and 10A/24V | 4                     | 16 MGD    | 24 MGD | 30" x 23" x 6.5" |
| 32    | FPO250/250-4C82D8E8PDK     | No      |               | 20A/12V and 10A/24V | 4                     | 16        | 32     | 36" x 30" x 6.5" |
| 32    | FPO250/250-4M8NLCSD16E8PDK | Yes     |               | 20A/12V and 10A/24V | 4                     | 16 MGD    | 32 MGD | 36" x 30" x 6.5" |

MGD—Managed Outputs      Single voltage—factory set to 12VDC      Dual voltage—outputs can be individually set for 12V or 24VDC

Networking—enables Managed Power for remote system management and troubleshooting

\*For CE 230VAC option, add "/E" suffix to model number, i.e FPO75-B100C4D8E1PDK/E

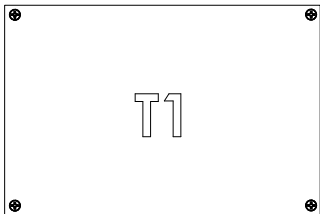
FlexPower and PDK Configurable Footprint

Unified Power Solutions for ProdataKey (PDK) integrate system power, lock power and PDK controllers into one LifeSafety Power wall mount enclosure.

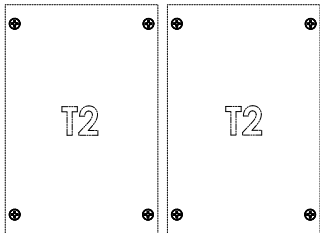
FlexPower Key

LifeSafety Power FlexPower modules come in three sizes: T1, T2, T3. The footprint for the largest module (T1) could alternatively accommodate two medium modules (T2) or four small modules (T3).

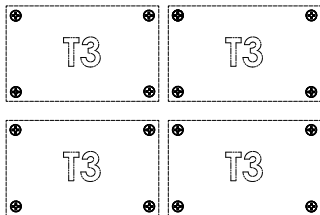
The medium size footprint (T2) could alternatively accommodate two small modules (T3).



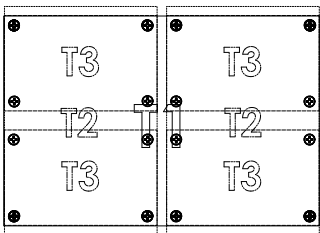
8.25" x 5.5" x 2.5"



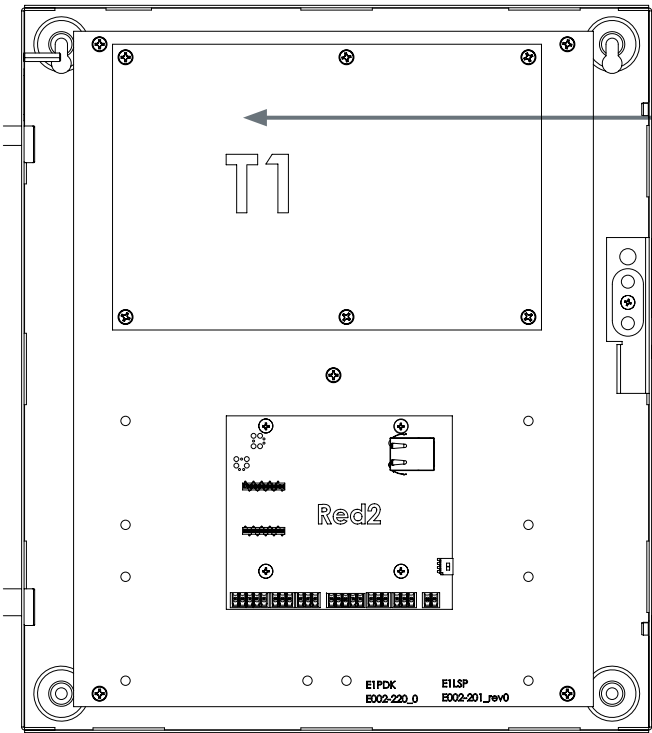
4" x 6" x 2.5"



4" x 2.5" x 1.5"



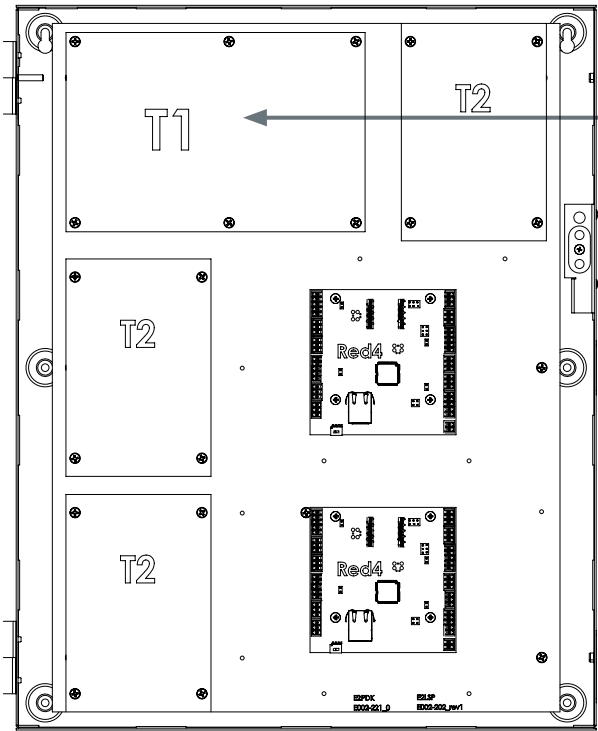
E1PDK



Power Supply

This location is for the power supply. The remaining identified locations can be used for other LifeSafety Power modules.

E2PDK



Power Supply

This location is for the power supply. The remaining identified locations can be used for other LifeSafety Power modules.

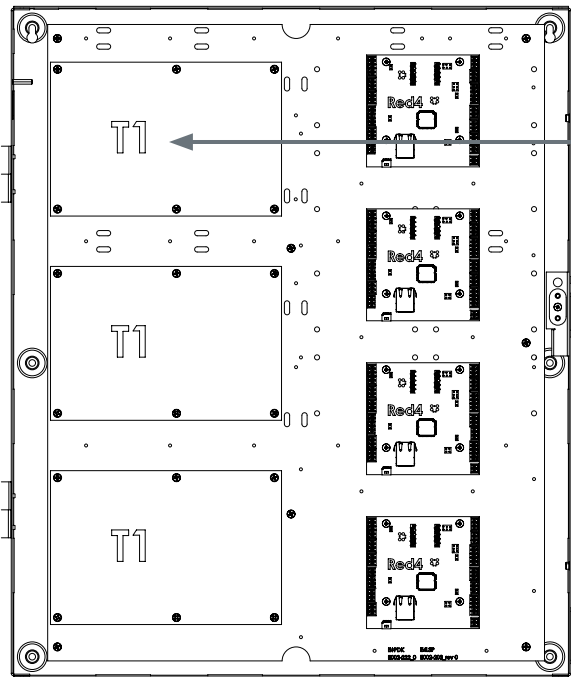
Flexible Configuration Options

To view customization options of the full system, check out our online Product Configurator.

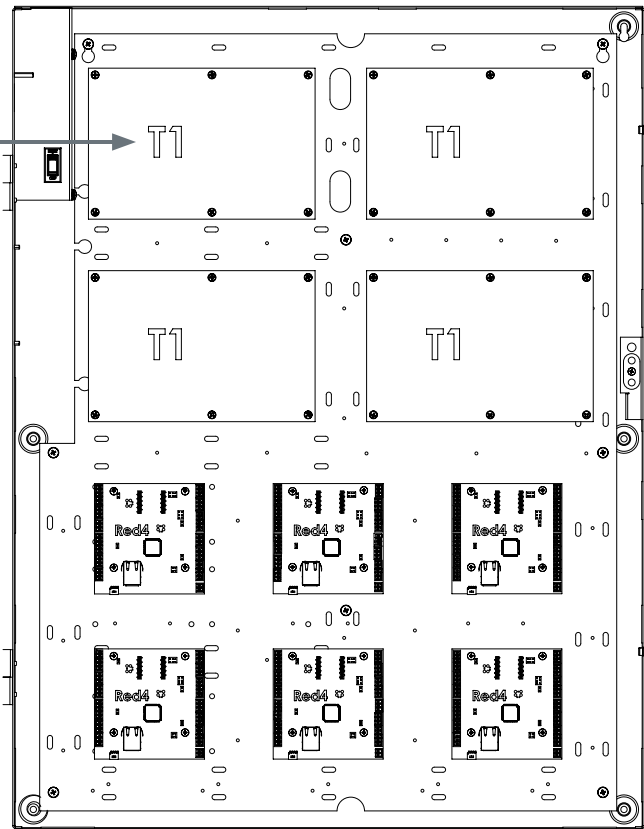


FlexPower and PDK Configurable Footprint

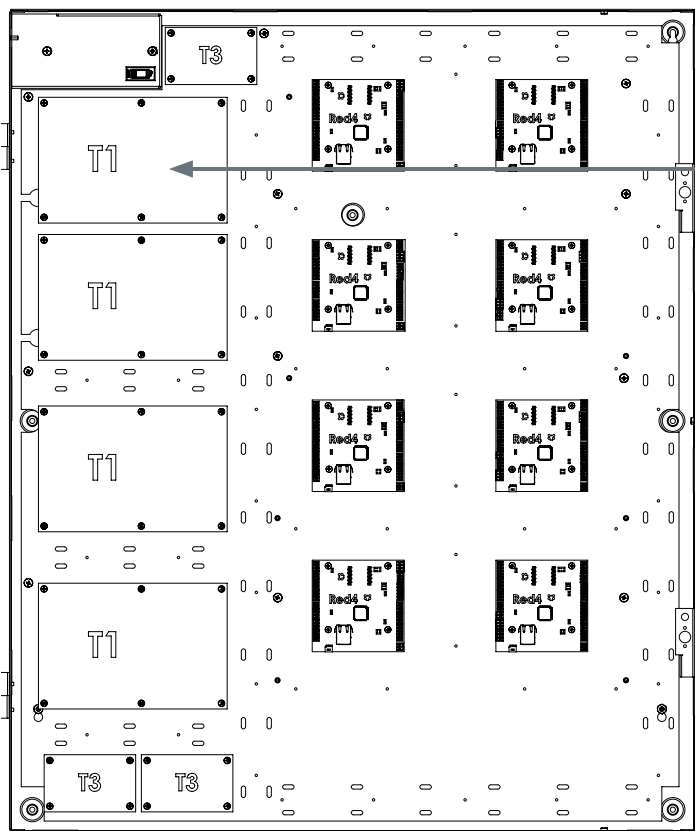
E4PDK



E6PDK



E8PDK



Power Supply

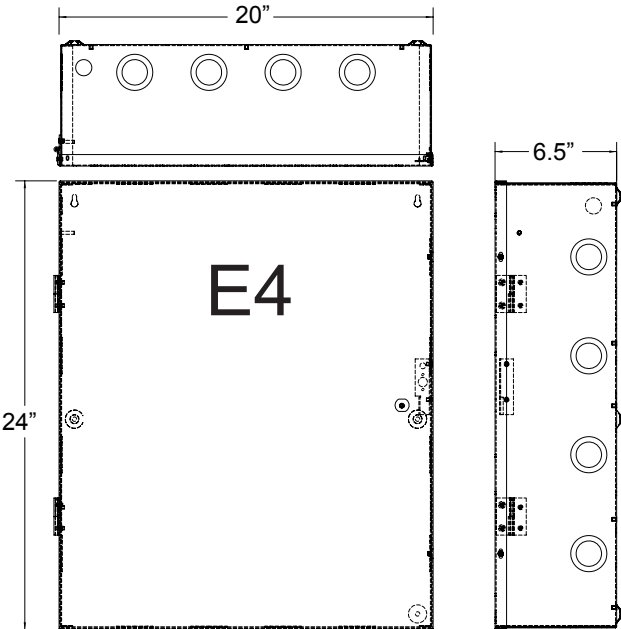
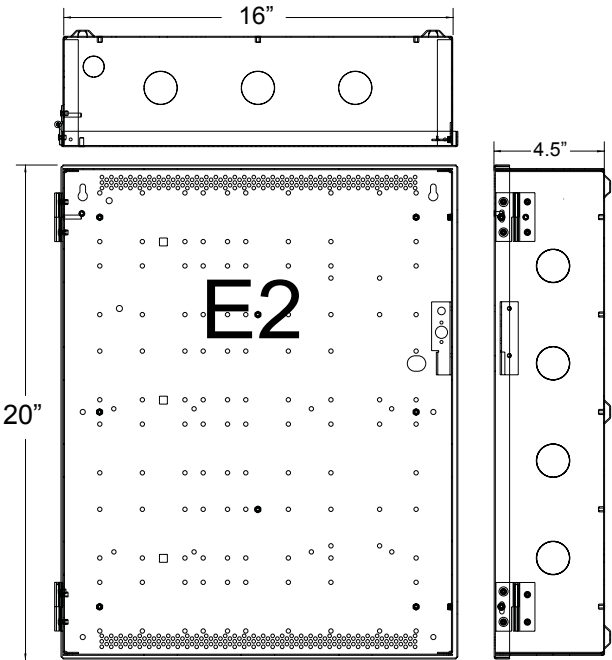
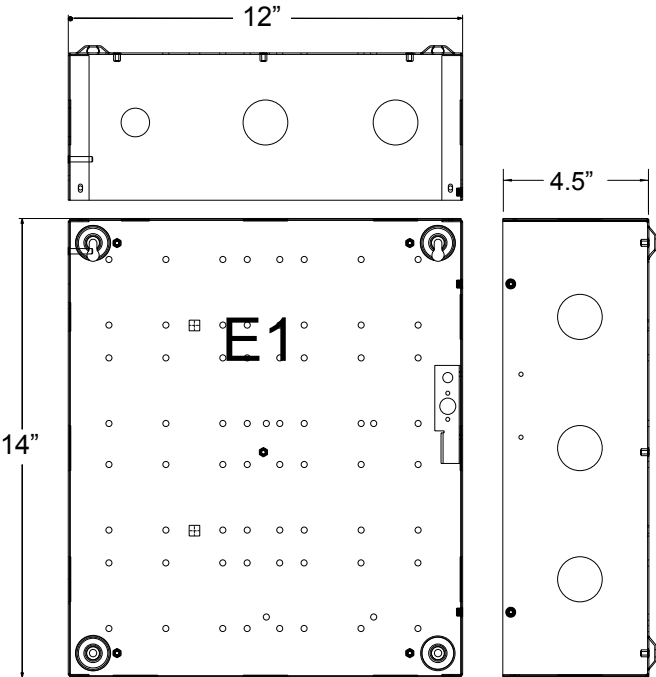
This location is for the power supply. The remaining identified locations can be used for other LifeSafety Power modules.

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Dimensions



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