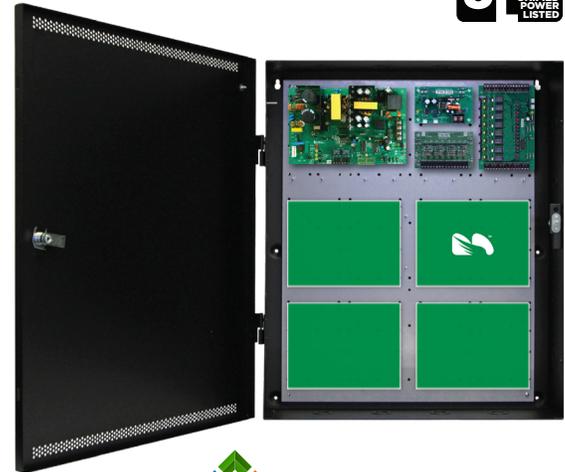# LifeSafetyPower®

Overview

MCLASS™ Unified Power Systems combine FlexPower® power modules alongside Mercury Security™ access hardware in one compact and secure UL Listed solution.

This unit is a 12V and 24V DC dual voltage access power system.

C8 lock control module provide eight access control inputs capable of voltage or dry contact activation, and outputs programmable for failsafe / failsecure operation at either 12 or 24 VDC and controlled by the integrated fire alarm interface circuit on the FPO. D8 module provides eight auxiliary class II outputs and each output is configurable for 12 or 24VDC operation.

MCLASS enclosures are painted steel with removable backplate and include lock, two (2) keys and tamper switch.

System Features

- **FPO offline power supply**
  – 120 or 230 VAC input
  – 12 or 24 VDC outputs
  – On board Fire Alarm Interface
  – Continuous and resettable DC

- **Distributed outputs**
  – Eight auxiliary - class II at 2.5A each
  – Eight lock control - fused at 3A each

- **Expansion options**
  – Increased power, multiple voltages
  – Additional distribution outputs
  – Network monitoring and reporting

- **Lifetime Warranty**

Enclosure Features

- **Labor saving design**
  – Pre-wired power section
  – Pre-punched knockouts
  – Removeable backplate simplifies installs
  – Pre-defined hole pattern for power section
  – Access panels mount on threaded standoffs - no drilling required

- **Additional benefits**
  – Wire management room
  – 6.5" enclosure depth fits battery set
  – Tamper switch, lock, dual key set standard
  – Mounting hardware for access boards included

FLEXPOWER UNIFIED POWER SOLUTIONS

Ordering	Description
FPO150-B100C8D8PE4M	150W (12V & 24V) 8 lock / 8 aux outputs, MCLASS enclosure

Specifications

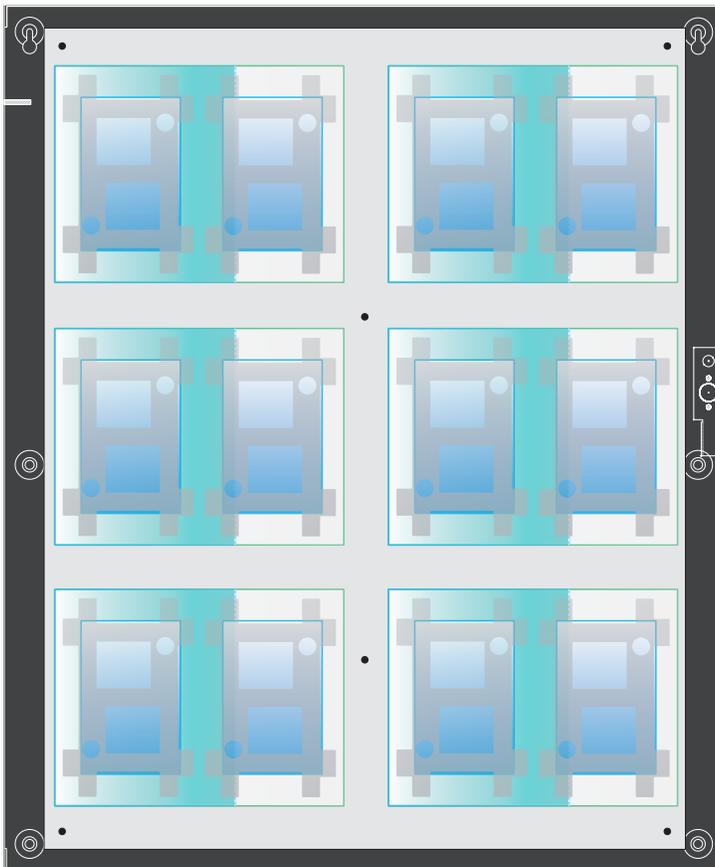|	
Input Power	Input 120/230 VAC 50/60 Hz	170 Watts (1.41 Amps) Overload and short circuit protection Over temperature protection Polarized AC power supply disconnect
Output Power	4A@12V and 4A@24V DC, 150W maximum combined output power Outputs: Continuous (DC1) Resettable DC2 8 auxiliary outputs, class II rated at 2.5 Amps per output 8 control outputs, fused at 3 Amps per output 120 mV output voltage ripple System Efficiency: 88%	System BTU Rating: 66 BTU/Hr
Battery Charging	Independent built-in 2A charger for sealed lead acid or gel type batteries Microprocessor dual rate charging of 12 or 24 V battery sets Charges up to 80Ah battery sets within UL limit Automatic switchover to standby battery when AC fails Zero voltage drop when switched over to battery backup
Supervision	AC Fail (form "C" contacts) System Fault (form "C" contacts) may be triggered by low/no battery, short to earth ground, power supply failure or blown fuse
Visual Indicators	AC input, DC1 and DC2 output System fault	AC fault	Short to earth ground	Reverse battery polarity Fire Alarm Input activated B100: DC input, output and fault C8: DC outputs and fault D8P: DC outputs
Regulatory Compliance Mercury/LSP Joint Listing	UL294, UL603, UL1076, ULC S318, ULC S319 CSA C22.2 #107.1, CSA 22.2 #60950 CSFM / FCC Part 15, Subpart B CE
Enclosure Dimensions	Size: 24.00H x 20.00W x 6.50D in. (61.00 x 50.00 x 16.50 cm)	Weight: 25 lbs.
Access Panel Mounting	LP1501, LP1502, LP4502, EP2500, MR50, MR51e, MR52, MR16, LNL-500, 1100, 1200, 1300, 1320, 2000, 2210, 2220, 3300

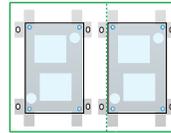## Universal Mercury Mounting Pattern

E4M

Mercury	Slots w/Power	Slots all Mercury
MR52 / LPxx	4	6
MR16in / MR16out	4	6
LP2500 / MUX8	4	6
LP1501 / MR51e	8	12
MR50	8	12

E4M1 (adds six MR door panels)

Mercury	Slots w/Power	Slots all Mercury
MR52 / LPxx	10	12
MR16in / MR16out	10	12
LP2500 / MUX8	4	6
LP1501 / MR51e	8	12
MR50	8	12

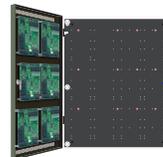**UNIVERSAL
MERCURY PATTERN
all boards each slot**

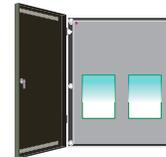(1) MR52 / LP1502
(1) LP2500
(2) LP1501 / Mr51E
(2) MR50

E4M1 EXPANDS SIX MR52 TO DOOR

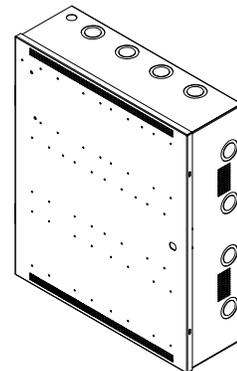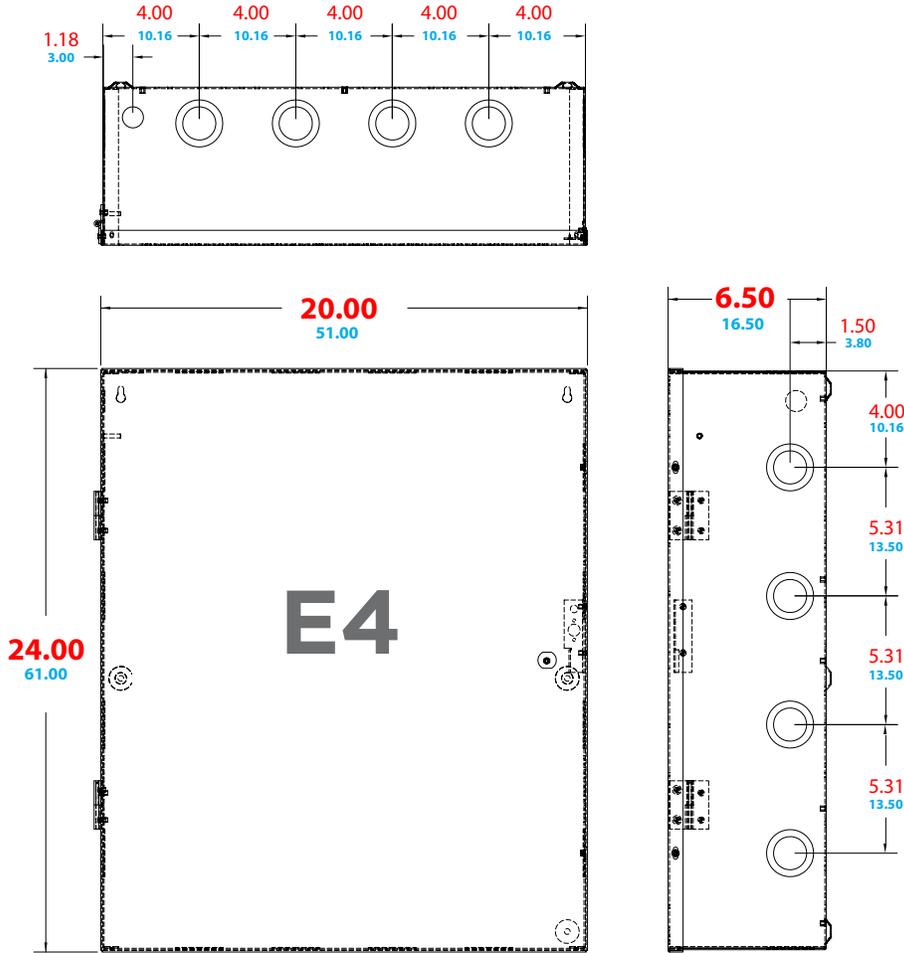**E4M2** ON DOOR ONLY

E4M2 TWO VERTICAL

Enclosure Features

- ◆ **Custom Backplate**
  - LSP power modules across top area
  - Horizontal Mercury mounting fits 8 door systems
  - Wire management channels for panduit or tie wrap

- ◆ **Enclosure**
  - 6.5" cabinet depth accommodates battery sets and Mercury controllers
  - Removable door with "fast disconnect" ground strap
  - Multiple knockouts all four sides
  - Network module mounting holes for field upgrade

E4 Enclosure Dimensions (H x W x D)
24.00" x 20.00" x 6.50" (61 x 51 x 16.5 cm)

1.18
3.00

4.00
10.16

4.00
10.16

4.00
10.16

4.00
10.16

4.00
10.16

20.00
51.00

6.50
16.50

1.50
3.80

4.00
10.16

5.31
13.50

5.31
13.50

5.31
13.50

24.00
61.00

E4

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Specifications subject to change without notice.

P01-584A   06/22

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