

### 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 network managed access power system.

One M8 managed control module provides eight access control inputs capable of voltage or dry contact activation, and eight outputs programmable for failsafe / failsecure operation at either 12 or 24 VDC and controlled by the integrated fire alarm interface circuit on the FPO. All inputs / outputs are software controlled for remote operation. One D8P 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 and 24 VDC outputs
  - On board Fire Alarm Interface
  - Continuous and resettable DC
- ◆ **Distributed outputs**
  - 8 auxiliary - power limited at 2.5A each
  - 8 managed - fused at 3A each
- ◆ **Remote Monitoring & Control**
  - Live voltage / current reporting
  - Remote battery load testing
  - Output power cycling and abnormal operation alert
  - System / AC fault reporting
  - Email and SNMP trap notification
- ◆ **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
  - 4.5" enclosure depth fits battery set
  - Tamper switch, lock, dual key set standard
  - Mounting hardware for access boards included



NetLink can be mounted on top of the B100 to free a Mercury slot



### Ordering

FP0150-B100D8PM8NL4E4M

### Description

150W (12V & 24V) 8 managed/aux outputs, ntrwk

### Specifications

<b>Input Power</b>	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
<b>Output Power</b>	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 managed outputs, fused at 3 Amps per output 120 mV output voltage ripple System Efficiency: 88%   System BTU Rating: 66 BTU/Hr
<b>Battery Charging</b>	Independent built-in 2A charger for sealed lead acid or gel type batteries Microprocessor dual rate charging of 12 or 24 V battery sets Automatic switchover to standby battery when AC fails Zero voltage drop when switched over to battery backup
<b>Supervision</b>	AC Fail (form "C" contacts) System fail (form "C" contacts) may be triggered by low/no battery, short to earth ground and power supply failure
<b>Visual Indicators</b>	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   D8P: DC output M8: DC input / output and Fault
<b>Regulatory Compliance</b>	UL294, UL603, UL1076, ULC S318, ULC S319
<b>Mercury/LSP</b>	CSA C22.2 #107.1, CSA 22.2 #60950
<b>Joint Listing</b>	CSFM / FCC Part 15, Subpart B CE
<b>Enclosure Dimensions</b>	Size: 24.00H x 20.00W x 4.50D in. (61.00 x 51.00 x 11.50 cm)   Weight: 25 lbs
<b>Access Panel Mounting</b>	EP1501, EP1502, EP4502, EP2500, MR50, MR51e, MR52, MR16, LNL-500, 1100, 1200, 1300, 1320, 2000, 2210, 2220, 3300



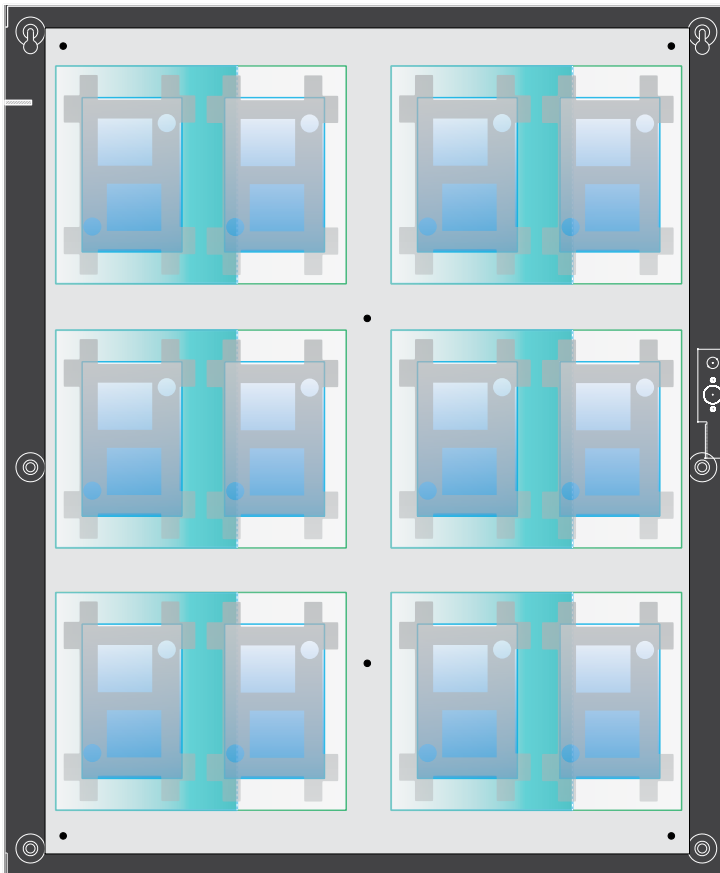
Universal Mercury Mounting Pattern

**E4M**

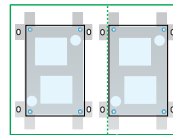
Mercury	Slots w/Power	Slots all Mercury
MR52 / EPxx	4	6
MR16in / MR16out	4	6
EP2500 / MUX8	4	6
EP1501 / MR51e	8	12
MR50	8	12

**E4M1 (adds six MR door panels)**

Mercury	Slots w/Power	Slots all Mercury
MR52 / EPxx	10	12
MR16in / MR16out	10	12
EP2500 / MUX8	4	6
EP1501 / MR51e	8	12
MR50	8	12

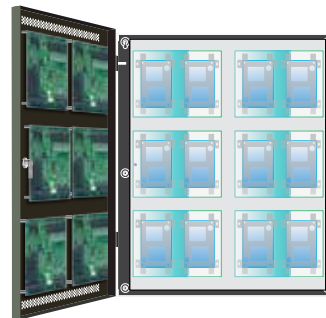


**UNIVERSAL MERCURY PATTERN**  
all boards each slot

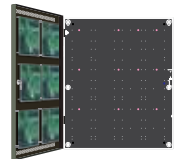


- (1) MR52 / EP1502
- (1) EP2500
- (2) EP1501 / Mr51E
- (2) MR50

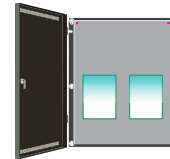
**E4M1 EXPANDS SIX MR52 TO DOOR**



**E4M2 ON DOOR ONLY**



**E4M2 TWO VERTICAL**



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Specifications subject to change without notice.

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