



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.

Dual M8 managed lock control modules provide sixteen access control inputs capable of voltage or dry contact activation, and sixteen outputs programmable for failsafe / failsecure operation at either 12 or 24 VDC and controlled by the integrated fire alarm interface circuit on the FPO. Dual D8P modules provide sixteen class II auxiliary outputs rated at 2.5A per output and each output configurable for 12 or 24VDC operation. The NL4 network module monitors, controls, and reports system power and battery status over a local or wide area network.

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**
 - 16 auxiliary, power limited at 2.5A each
 - Sixteen smart 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
- ◆ **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 studs - 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

Ordering

FP0150/250-2D8P2M8NL4E4M1

Description

400W (12V & 24V) 16 managed/aux outputs, ntwrk

Specifications

Input Power	Input 120/230 VAC 50/60 Hz 452 Watts Overload and short circuit protection Over temperature protection Polarized AC power supply disconnect
Output Power	FPO150: 12V/12A or 24V/6A 150 Watts FPO250: 12V/20A or 24V/10A 250 Watts Outputs: Continuous (DC1) Resettable (DC2) 16 managed lock outputs, fused at 3A each 16 auxiliary outputs, class 2 power limited at 2.5A each 120 mV output voltage ripple System Efficiency: 87% System BTU Rating: 175 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 M8: DC input / output and Fault D8P: DC outputs
Regulatory Compliance	UL294, UL603, UL1076, ULC S318, ULC S319
Mercury/LSP	CSA C22.2 #107.1, CSA 22.2 #60950
Joint Listing	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, LP2500, MR50, MR51e, MR52, MR16, LNL-500, 1100, 1200, 1300, 1320, 2000, 2210, 2220, 3300



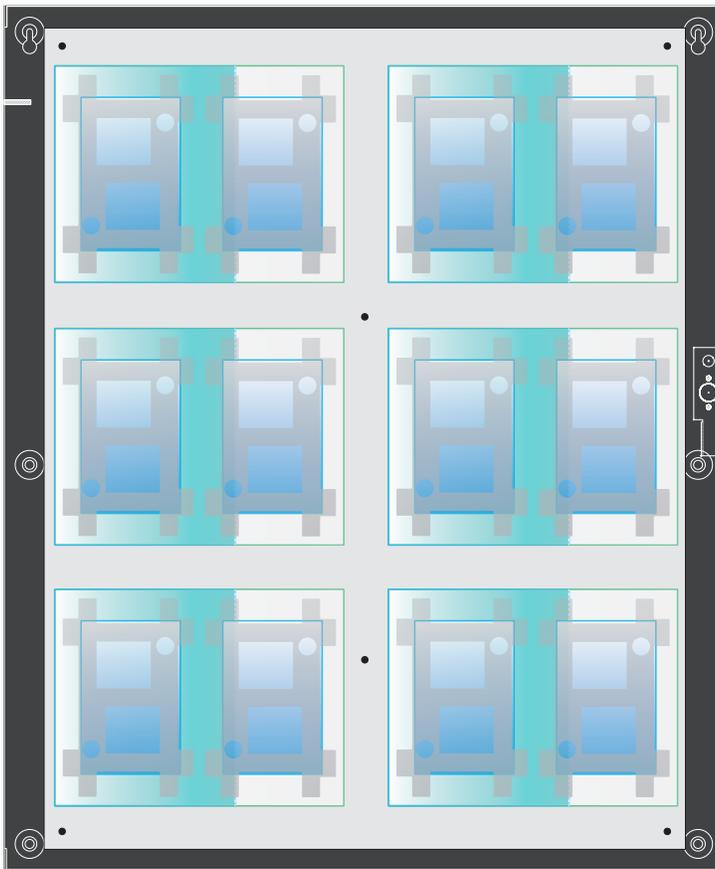
Universal Mercury Mounting Pattern

E4M

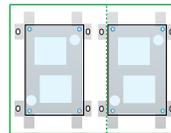
Mercury	Slots w/Power	Slots all Mercury
MR52 / LPxx	4	6
MR16in / MR16out	4	6
LP2500 / MUX8	4	6
LP1501 / MR51e	8	12
MR50	8	12

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

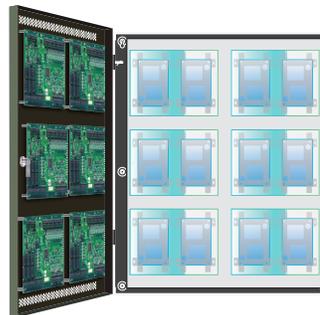


UNIVERSAL MERCURY PATTERN
all boards each slot

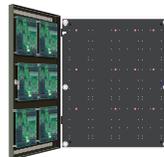


- (1) MR52 / LP1502
- (1) LP2500
- (2) LP1501 / Mr51E
- (2) MR50

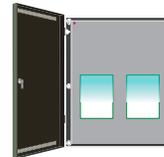
E4M1 EXPANDS SIX MR52 TO DOOR



E4M2 ON DOOR ONLY



E4M2 TWO VERTICAL



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Specifications subject to change without notice.

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