

Overview

These ProWire Unified Power wall mount models are single and dual voltage access power systems, precision wired for MERCURY controllers. ProWire enables the specification and installation of **standardized access power equipment** across an enterprise for uniform operation, maintenance and servicing.

The C8 or M8 control modules provide (16) sixteen access control inputs capable of voltage or dry contact activation, and (16) sixteen outputs programmable for failsafe / failsecure operation at either 12 or 24 VDC and controlled by the power supply fire alarm interface. The D8 modules provide (16) sixteen auxiliary outputs. In dual voltage systems, each output is configurable for 12 or 24VDC operation.

ProWire Unified Power enclosures are painted steel with removable backplate, lock, keys and tamper switch and come 100% factory tested – ready for final panel installation and field wire termination.

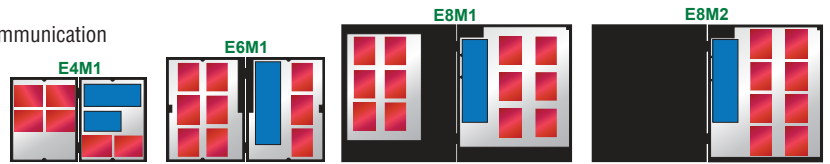


FPO150/250-3D8P2M8N4E6M1/P16-A
 Managed Power System
 E6M1 enclosure, A-Wired Panduit

Product Features

- Pre-installed wire harness for panel power, lock control, faults and tamper switch
- Point to point wiring; labeled, color coded, twisted pair, shielded communication
- Tie wrap or wire duct cable management options
- Managed systems monitor power, batteries and sixteen outputs
- UL294, ULC S319 joint LSP / Mercury integrated listing

Enclosure Styles



Model Nomenclature

Power Supplies

FPO250/250

Power rating
 FPO150 12A/12V 150W system power
 FPO250 10A/24V 250W lock power

Accessory Boards & Enclosure

2C8 3D8P E8M2

Enclosure
 Accessory qty

Accessory modules: C8, D8, M8 (FUSED) | C8P, D8P, M8P (PTC)

Wiring Option

P16-A

P Panduit 16DR
 T Tie Wrap 16DR

- A MR52 / LP1502 (4502)
- B MR52 / LP2500
- C Twelve (12) MR52



*Model Number	Model Wiring Options						System Type	Distributed Outputs	Enclosure / Cable Mgmt
	T16-A	T16-B	T16-C	P16-A	P16-B	P16-C		Auxiliary and Control	H x W x D (inches)

Dual Voltage - 12A/12V and 10A/24V

FPO150/250-2C83D8PE4M1/P16-A	T16-A	T16-B	T16-C				Standard	16 auxiliary, 16 lock control	E4M1 24 x 20 x 6.5 Tie Wrap
FPO150/250-3D8P2M8N4E4M1/P16-A	T16-A	T16-B	T16-C				Networked	16 auxiliary, 16 managed	
FPO150/250-2C83D8PE6M1/P16-A	T16-A	T16-B	T16-C	P16-A	P16-B	P16-C	Standard	16 auxiliary, 16 lock control	E6M1 30 x 23 x 6.5 Tie Wrap / Panduit
FPO150/250-3D8P2M8N4E6M1/P16-A	T16-A	T16-B	T16-C	P16-A	P16-B	P16-C	Networked	16 auxiliary, 16 managed	
FPO150/250-2C83D8PE8M1/P16-A	T16-A	T16-B	T16-C	P16-A	P16-B	P16-C	Standard	16 auxiliary, 16 lock control	E8M1 36 x 30 x 6.5 Tie Wrap / Panduit
FPO150/250-3D8P2M8N4E8M1/P16-A	T16-A	T16-B	T16-C	P16-A	P16-B	P16-C	Networked	16 auxiliary, 16 managed	
FPO150/250-2C83D8PE8M2/P16-A	T16-A	T16-B	T16-C	P16-A	P16-B	P16-C	Standard	16 auxiliary, 16 lock control	E8M2 36 x 30 x 6.5 Tie Wrap / Panduit
FPO150/250-3D8P2M8N4E8M2/P16-A	T16-A	T16-B	T16-C	P16-A	P16-B	P16-C	Networked	16 auxiliary, 16 managed	

Single Voltage - 20A/12V (10A/24V)

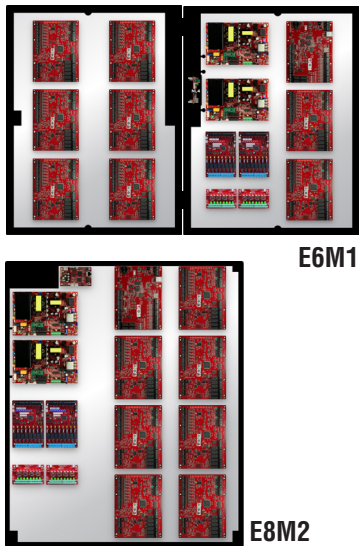
FPO250-2C83D8PE4M1/P16-A	T16-A	T16-B	T16-C				Standard	16 auxiliary, 16 lock control	E4M1 24 x 20 x 6.5 Tie Wrap
FPO250-3D8P2M8N4E4M1/P16-A	T16-A	T16-B	T16-C				Networked	16 auxiliary, 16 managed	
FPO250-2C83D8PE6M1/P16-A	T16-A	T16-B	T16-C	P16-A	P16-B	P16-C	Standard	16 auxiliary, 16 lock control	E6M1 30 x 23 x 6.5 Tie Wrap / Panduit
FPO250-3D8P2M8N4E6M1/P16-A	T16-A	T16-B	T16-C	P16-A	P16-B	P16-C	Networked	16 auxiliary, 16 managed	
FPO250-2C83D8PE8M1/P16-A	T16-A	T16-B	T16-C	P16-A	P16-B	P16-C	Standard	16 auxiliary, 16 lock control	E8M1 36 x 30 x 6.5 Tie Wrap / Panduit
FPO250-3D8P2M8N4E8M1/P16-A	T16-A	T16-B	T16-C	P16-A	P16-B	P16-C	Networked	16 auxiliary, 16 managed	
FPO250-2C83D8PE8M2/P16-A	T16-A	T16-B	T16-C	P16-A	P16-B	P16-C	Standard	16 auxiliary, 16 lock control	E8M2 36 x 30 x 6.5 Tie Wrap / Panduit
FPO250-3D8P2M8N4E8M2/P16-A	T16-A	T16-B	T16-C	P16-A	P16-B	P16-C	Networked	16 auxiliary, 16 managed	

*Model wiring option "P16-A" calls out A wired Panduit. Modify model number to order other options, i.e., FPO150/250-2C83D8PE8M2/T16-C (C wired tie wrap)

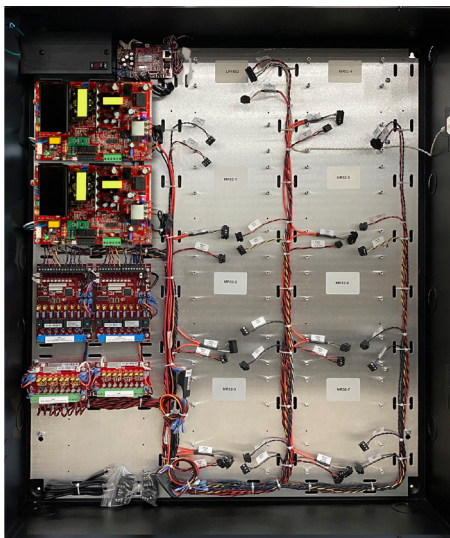
System Specifications

Power Supplies	FP0150	Power supply board 12A/12V, 150W
	FP0250	Power supply board 10A/24V, 250W
		Input 120/230VAC 50/60Hz Single voltage 142 Watts (1.42A) Dual voltage 452 Watts (3.77A) Overload and short circuit protection Over temperature protection Polarized AC power supply disconnect
Battery Charging	Independent built-in charger for sealed lead-acid or gel type batteries Microprocessor dual rate charging of 12 or 24V battery sets Automatic switchover to standby battery when AC fails Zero voltage drop when switched over to battery backup	
Supervision	AC Fault (form "C" contacts) System Fault (form "C" contacts) System Fault conditions: Low or no battery short to earth ground power supply failure	
Distribution Modules	D8P (X3)	16 auxiliary outputs, class 2 power limited at 2.5A per output (third D8P dedicated power to Mercury controllers)
	C8 (X2)	16 relay lock control outputs, fused at 3A per output
	M8 (X2)	16 relay managed outputs, fused at 3A per output
Network Management	NL4	Four port module. Monitors and reports power supply status. Tests and reports battery health status.
	M8 (X2)	Monitors sixteen (16) individual outputs. Remote reset each output. Set window thresholds for voltage & current.
Enclosures	E4M1	Size: 24.00H x 20.00W x 6.50D in. (61.00 x 50.00 x 16.51 cm) Weight: 28 lbs.
	E6M1	Size: 30.00H x 23.00W x 6.50D in. (76.20 x 58.12 x 16.51 cm) Weight: 47 lbs.
	E8M1	Size: 36.00H x 30.00W x 6.50D in. (91.44 x 76.20 x 16.51 cm) Weight: 70 lbs.
	E8M2	Size: 36.00H x 30.00W x 6.50D in. (91.44 x 76.20 x 16.51 cm) Weight: 73 lbs.
Wiring Suffix	T16-A P16-A	T = Tie Wrap P = Panduit 16 = Door count A = MR52 / EP1502
	T16-B P16-B	T = Tie Wrap P = Panduit 16 = Door count B = MR52 / EP2500
	T16-C P16-C	T = Tie Wrap P = Panduit 16 = Door count C = All MR52s
Regulatory Compliance	USA/Canada	UL294, UL1076 ULC S319 CSA C22.2 #107.1 FCC Part 15 CSFM
	International	CE: IEC 62368-1:2014, EN55032:2015, EN61000-3-2:2014, EN61000-3-3:2013, EN55024:2010 +A1:2015 India BIS IS13252(Part1):2010 Mexico NOM 001:2018

Board Locations / Wiring Examples



E8M2 Tie wrap



E8M2 Panduit



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LifeSafety Power warrants to the original purchaser only that all products will be free from defects in material or workmanship at time of shipment. This warranty is non-transferable. Our obligation under this warranty is limited to repair or replacement, at the sole discretion of LifeSafety Power, of products that are defective in material or workmanship at the time of shipment provided they were used within the specified ratings and installed in accordance with accepted engineering practices. Products in the Unified Wired Systems Classification will be wired to the LifeSafety Power description of operation unless otherwise stated. At the time of installation it is the obligation of the purchaser or final installer to verify that all wired terminations provide the desired operation. In no event shall LifeSafety Power be responsible for any special, incidental or consequential damages even if LifeSafety Power has been advised of the possibility of such damages. Customer hereby agrees to indemnify LifeSafety Power for and hold LifeSafety Power harmless from and against any and all loss, cost or expense (including reasonable attorneys' fees) directly or indirectly related to any claim with respect to Unified Wired™ systems classification products except to the extent any such claim shall result from the gross negligence or willful misconduct of LifeSafety Power.