

### Overview

These ProWire Unified Power wall mount models are 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 twenty four access control inputs capable of voltage or dry contact activation, and twenty four 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 forty auxiliary outputs. In dual voltage systems, each output is configurable for 12 or 24VDC operation. Fully managed models replace some or all D8 modules with M8 modules.

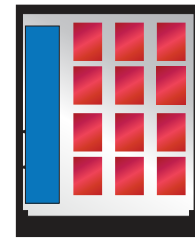
ProWire Unified Power enclosures are painted steel with removable backplate, lock, keys and tamper switch and come 100% factory tested – ready for final panel installation and field wire termination.



### Product Features

- Guarantees uniform installations across an enterprise
- 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 outputs
- UL294, ULC S319 joint LSP / Mercury integrated listing

### E12 Backplate Pattern



### Model Nomenclature

#### Power Supplies

**FPO250/250**

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

#### Accessory Boards & Enclosure

**3C8 5D8P E12M**

Enclosure  
Accessory qty

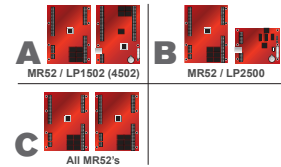
Accessory modules: C8, D8, M8 (FUSED) | C8P, D8P, M8P (PTC)

#### Wiring Option

**P24-A**

P Panduit 24DR  
T Tie Wrap 24DR

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



| *Model Number | Model Wiring Options |       |       |       |       |       | System Type | Available Outputs |
|---------------|----------------------|-------|-------|-------|-------|-------|-------------|-------------------|
|               | T24-A                | T24-B | T24-C | P24-A | P24-B | P24-C |             |                   |

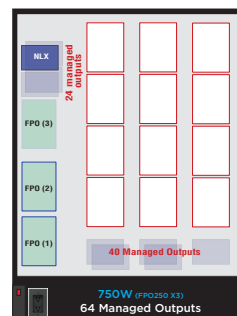
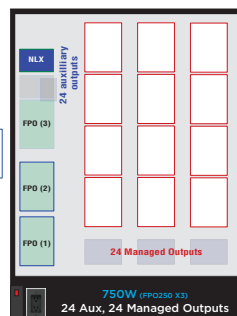
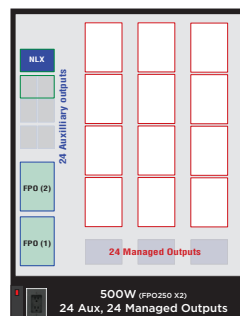
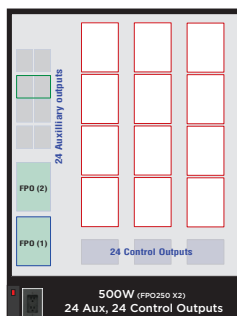
#### Dual voltage - 500W

|                                  |       |       |       |       |       |       |                             |                                  |
|----------------------------------|-------|-------|-------|-------|-------|-------|-----------------------------|----------------------------------|
| FPO250/250-3C85D8PE12M/P24-A     | T24-A | T24-B | T24-C | P24-A | P24-B | P24-C | Standard                    | 24 auxiliary, 24 lock outputs    |
| FPO250/250-5D8P3M8NLXE12M/P24-A  | T24-A | T24-B | T24-C | P24-A | P24-B | P24-C | Managed Locks               | 24 auxiliary, 24 managed outputs |
| FPO250/250-3D8P5M8PNLXE12M/P24-A | T24-A | T24-B | T24-C | P24-A | P24-B | P24-C | Managed Locks, Mercury      | 24 auxiliary, 24 managed outputs |
| FPO250/250-8M8PNLXE12M/P24-A     | T24-A | T24-B | T24-C | P24-A | P24-B | P24-C | Managed Locks, Mercury, Aux | 48 managed outputs               |


#### Dual voltage - 750W

|                                      |       |       |       |       |       |       |                             |                                  |
|--------------------------------------|-------|-------|-------|-------|-------|-------|-----------------------------|----------------------------------|
| FPO250/250/250-3C85D8PE12M/P24-A     | T24-A | T24-B | T24-C | P24-A | P24-B | P24-C | Standard                    | 24 auxiliary, 24 lock outputs    |
| FPO250/250/250-5D8P3M8NLXE12M/P24-A  | T24-A | T24-B | T24-C | P24-A | P24-B | P24-C | Managed Locks               | 24 auxiliary, 24 managed outputs |
| FPO250/250/250-3D8P5M8PNLXE12M/P24-A | T24-A | T24-B | T24-C | P24-A | P24-B | P24-C | Managed Locks, Mercury      | 24 auxiliary, 24 managed outputs |
| FPO250/250/250-8M8PNLXE12M/P24-A     | T24-A | T24-B | T24-C | P24-A | P24-B | P24-C | Managed Locks, Mercury, Aux | 48 managed outputs               |

\*Model wiring option "P24-A" calls out A wired Panduit. Modify model number to order other options, i.e., FPO250/250-3C85D8PE12M/T24-C (C wired tie wrap)



**System Specifications**

|                              |   |  |
|------------------------------|---|--|
| <b>Power Supplies</b>        | <b>FPO250/250</b>   | 500W total: 20A/12V and 10A/24V  |
|                              | <b>FPO250/250/250</b>   | 750W total: 20A/12V and 20A/24V  |
|                              |   | Input 120/230VAC 50/60Hz   FPO250/250 564 Watts (4.70A)   FPO250/250/250 846 Watts (7.05A)<br>Overload and short circuit protection<br>Over temperature protection<br>Polarized AC power supply disconnect |
| <b>Battery Charging</b>      | Independent built-in charger for sealed lead-acid or gel type batteries<br>Microprocessor dual rate charging of 12 or 24V battery sets<br>Automatic switchover to standby battery when AC fails<br>Zero voltage drop when switched over to battery backup |  |
| <b>Supervision</b>           | AC Fault (form "C" contacts)<br>System Fault (form "C" contacts)<br>System Fault conditions: Low or no battery   short to earth ground   power supply failure   |  |
| <b>Distribution Modules</b>  | <b>D8P</b>  | Auxiliary outputs, class 2 power limited at 2.5A per output  |
|                              | <b>C8</b>   | Relay lock control outputs, fused at 3A per output   |
|                              | <b>M8</b>   | Relay managed outputs, fused at 3A per output  |
|                              | <b>M8P</b>  | Relay managed outputs, class 2 power limited at 2.5A per output  |
| <b>Network Management</b>    | <b>NLX</b>  | Monitors and reports power supply, battery and managed outputs.  |
| <b>Enclosure</b>             | <b>E12M</b>   | Size: 48.00H x 36.00W x 8.00D in. (122.00 x 91.00 x 20.30 cm)   Weight: 130 lbs.   |
| <b>Wiring Suffix</b>         | <b>T24-A   P24-A</b>  | T = Tie Wrap P = Panduit 24 = Door count A = MR52 / EP1502   |
|                              | <b>T24-B   P24-B</b>  | T = Tie Wrap P = Panduit 24 = Door count B = MR52 / EP2500   |
|                              | <b>T24-C   P24-C</b>  | T = Tie Wrap P = Panduit 24 = Door count C = All MR52s   |
|                              |   |   |
| <b>Regulatory Compliance</b> | <b>USA/Canada</b>   | UL294, UL1076   ULC S319   CSA C22.2 #107.1   FCC Part 15   CSFM   |
|                              | <b>International</b>  | CE: IEC 62368-1:2014, EN55032:2015, EN61000-3-2:2014, EN61000-3-3:2013, EN55024:2010 +A1:2015<br>India BIS IS13252(Part1):2010   Mexico NOM 001:2018   |

**Standard and Managed Examples**

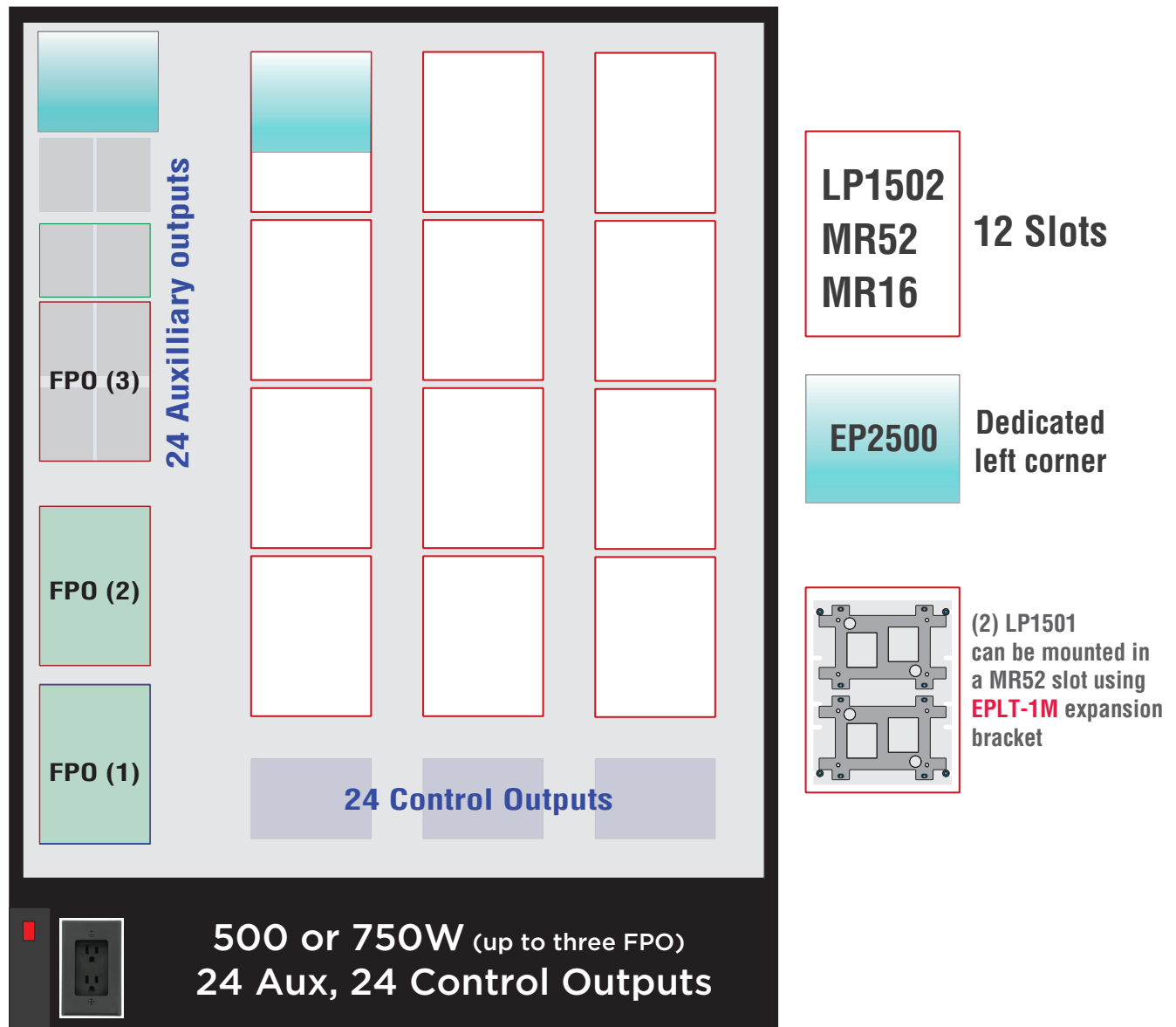


## E12M Mercury Mounting Guide

| Mercury          | Slots | Area  |
|------------------|-------|-------|
| MR52 / LPxx      | 12    | 6 x 8 |
| MR16in / MR16out | 12    | 6 x 8 |
| EP2500 / MUX8    | 13    | 6 x 5 |

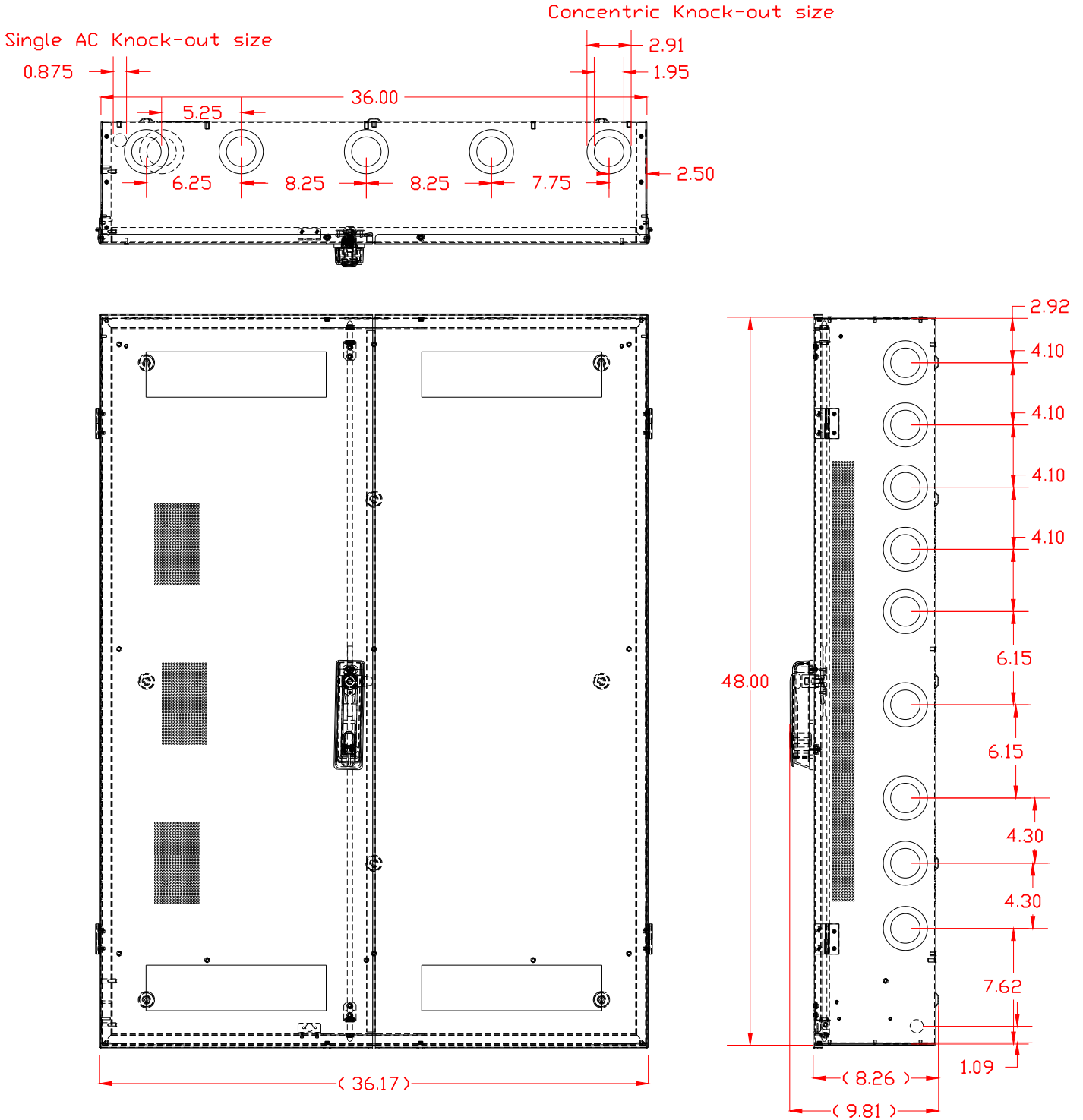
### Enclosure Features

- ♦ **Custom Backplate**
  - Light weight aluminum with AC and battery slots to protect cables
  - LSP pre-wired power modules reduce installation time
  - Vertical Mercury pattern for maximum design flexibility
  - Wide wire management channels for panduit or tie wrap
- ♦ **E12 Enclosure**
  - Protected AC cover with on/off circuit breaker for maintenance safety and AC outlet for service equipment or lighting
  - Pre-drilled mounting holes for field upgrades
  - 8" cabinet depth accommodates large battery sets
  - Removable double doors with "fast disconnect" ground straps and three point locking mechanism
  - Multiple knockouts all four sides



## E12 Enclosure Dimensions (H x W x D)

### 48.00" x 36.00" x 8.00" (122 x 91 x 20.3 cm)



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