

Overview

Unified Power Solutions for Mercury integrate system power, lock power and Mercury controllers into one LifeSafety Power wall mount enclosure. Mercury LP or MP Series controllers and multiple LifeSafety Power FlexPower® devices can be mounted in these access control power systems, which are capable of controlling up to 24 doors.

Available options include single (12 or 24V DC) or dual voltage operation (12 and 24V DC), power distribution and control, individual output protection by either fuses or class 2 power limited, buffered lock control, and remote reporting and testing. Each LSP output is protected against electrical surges caused by lightning or transients on the external wiring and each LSP control output is individually selectable for available DC voltages, either fail safe or fail secure operation with fire alarm interface.

Optional network reporting capabilities include operational fault status, power supply output, battery charging voltage, battery charging current, and fire alarm input status. In addition to automated and scheduled status reports, diagnostic servicing and battery load tests can be performed remotely, saving or reducing the cost of on-site servicing.

Product Features

- Labor Saving Design
 - Pre-wired power section
 - Pre-punched knockouts
 - Flexible backplate mounting locations with threaded studs
 - Comprehensive wire management with internal tie down points
- Integrated access system with lock and system power distribution
- 120 or 230V AC user selectable input and integrated AC main switch (E6 enclosures and up)
- [Advanced locking options](#) available for enhanced security on the enclosure

Network Monitoring

- Monitor/alert power supply, battery operation and faults
- Remote test battery run time, low battery and time to service alert
- Monitor/power cycle individual outputs (M8/SD4/SD16 models)
- Monitor alert external rack or room temperature


FLEXPOWER®
 UNIFIED POWER SOLUTIONS


Configuration Options

- Single voltage or 12 and 24VDC dual voltage options cover all access functions
- Power distribution for either direct (D8) controlled (C8), or managed (SD4/SD16/M8)
- Individual output selection for fail safe, fail secure, lock voltage and fire alarm interface (FAI)
- High capacity battery charge capability
- Automotive fuses for ease of service and replaceability

Fire Alarm Interface

- Latching or non-latching
- Normally Open, Normally Closed
- Voltage or polarity reversal activation

Comprehensive Fault Detection and Reporting

- May be connected into access controller or used standalone
- Form C contact transfer for AC Loss or brownout
- Form C contact transfer for abnormal system operation

Agency Listings

- UL, CUL, CE*, RoHS

Lifetime Warranty

Specifications

Input Power	Input 120/230 VAC 50/60 Hz 83 Watts (FPO75) 170 Watts (FPO150) 287 Watts (FPO250) Thermal overload protection / Short circuit protection		
Output Power	FPO75 75 Watts: FPO150 150 Watts: FPO250 250 Watts:	6 amps at 12 VDC or 3 amps at 24VDC 12 amps at 12 VDC or 6 amps at 24 VDC 20 amps at 12 VDC or 10 amps at 24 VDC	
Internal Power Distribution	D8/D8P eight auxiliary outputs: C8/C8P eight control outputs: M8/M8P eight managed lock outputs: SD4/SD4P four managed auxiliary outputs: SD16 sixteen managed auxiliary outputs: Individually selectable outputs on dual voltage systems D8 fused at 3A/ea, D8P Class II Power limited at 2.5A/ea C8 fused at 3A/ea, C8P Class II Power limited at 2.5A/ea M8 fused at 3A/ea, M8P Class II Power limited at 2.5A/ea SD4 fused at 3A/ea, SD4P Class II Power limited at 2.5A/ea SD16 Class II Power limited at 1A/ea		
Network Connectivity for Managed Power	NLC 32 managed modules via RS485 and 31 NXBs via OSDP NXB 32 managed modules via RS485		
Supervision	LED: AC input, DC1, and DC2 output, System Fault, AC Fault, Ground Fault, Reverse Battery Low battery and battery presence supervision (form C contacts) AC fail supervision (form C contacts)		
External Indicators	AC on		
Battery Charging	Independent built-in charger for sealed lead acid or gel type batteries Microprocessor 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		
Regulatory Compliance	CE*, UL294, UL603, UL1076, UL2610, ULC S318, ULC S319 /E Models are CE Compliant		
Access Panel Mounting	Accommodates one to twelve LP or MP series boards, depending on configuration		
BTU Rating	FPO75: 33BTU/hr, FPO150: 66BTU/Hr, FPO250: 109BTU/Hr		
Operating Temperature	Ambient Temperature Ambient Humidity Storage Temperature	0°C to 49°C (32°F to 120°F) 93% at 32°C (90°F) maximum -30°C to 70°C (-22°F to 158°F)	
Physical Dimensions	E1 Size: 14"H x 12"W x 4.5"D (36 x 30 x 11 cm) Weight 9 lbs. (4.1 kg) E2 Size: 20"H x 16"W x 4.5"D (51 x 41 x 11 cm) Weight 14 lbs. (6.4 kg) E4 Size: 24"H x 20"W x 6.5"D (61 x 51 x 17 cm) Weight 26 lbs. (11.8 kg) E6 Size: 30"H x 23"W x 6.5"D (76 x 58 x 17 cm) Weight 38 lbs. (17.2 kg) E8 Size: 36"H x 30"W x 6.5"D (91 x 76 x 17 cm) Weight 53 lbs. (24 kg) E12 Size: 48"H x 36"W x 8"D (122 x 91 x 20 cm) Weight 100 lbs. (43.4 kg) EXT4 Size: 8.5"H x 20"W x 6.5"D (21.6 x 50.8 x 16.5 cm) Weight 13 lbs. (5.9 kg) EXS4 Size: 24"H x 8.5"W x 7.4"D (61 x 21.6 x 18.7 cm) Weight 18 lbs. (8.2 kg) EXT8 Size: 8.5"H x 30"W x 6.5"D (21.6 x 76.2 x 16.5 cm) Weight 18 lbs. (8.2 kg) EXS8 Size: 36"H x 8.5"W x 7.4"D (91.4 x 21.6 x 18.7 cm) Weight 26 lbs. (11.8 kg)		

Ordering

Doors	*Model No.	Network	Current and Voltage	Internal Distribution		Dimensions
				Auxiliary	Lock	
1-2	FPO75-B100C4PE1M	No	Dual Voltage 2A@12V and 2A@24V	0	4	14" x 12" x 4.5"
4	FPO75-B100C4D8PE2M	No		8	4	20" x 16" x 4.5"
	FPO75-B100M8PNLCE2M	Yes		0	8 MGD	
8	FPO150-B100C8D8PE4M	No	Dual Voltage 4A@12V and 4A@24V	8	8	24" x 20" x 6.5"
	FPO150-B150D8PM8NLC4M	Yes		8	8 MGD	
	FPO150-B150M8NLC2SD4PE4M	Yes		8 MGD	8 MGD	
	FPO150-B100C8D8PE6M	No		8	8	30" x 23" x 6.5"
	FPO150-B150D8PM8NLC6M	Yes		8	8	
	FPO150-B150M8NLC2SD4PE6M	Yes		8 MGD	8 MGD	
16	FPO150/250-2C82D8PE4M1	No	Dual Voltage 12A@12V and 10A@24V	16	16	24" x 20" x 6.5"
	FPO150/250-2D8P2M8NLC4M1	Yes		16	16 MGD	
	FPO150/250-2M8NLCSD16E4M1	Yes		16 MGD	16 MGD	
	FPO150/250-2C82D8PE6M1	No		16	16	30" x 23" x 6.5"
	FPO150/250-2D8P2M8NLC6M1	Yes		16	16 MGD	
	FPO150/250-2M8NLCSD16E6M1	Yes		16 MGD	16 MGD	
	FPO150/250-2C82D8PE8M2	No		16	16	36" x 30" x 6.5"
	FPO150/250-2D8P2M8NLC8M2	Yes		16	16 MGD	
	FPO150/250-2M8NLCSD16E8M2	Yes		16 MGD	16 MGD	
24	FPO250/250-3C83D8PE12M	No	Dual Voltage 20A@12V and 10A@24V	24	24	48" x 36" x 8"
	FPO250/250-3D8P3M8NLC12M	Yes		24	24 MGD	
	FPO250/250-3M8NLC2SD16E12M	Yes		32 MGD	24 MGD	

MGD—Managed Outputs Single voltage—factory set to 12VDC Dual voltage—outputs can be individually set for 12V or 24VDC

Networking—enables Managed Power for remote system management and troubleshooting

*For CE 230VAC option, add "/E" suffix to model number, i.e FPO75-B100C4PE1M/E

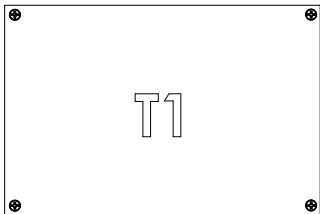
FlexPower and Mercury Configurable Footprint

Unified Power Systems allow for multiple configurations of FlexPower modules and Mercury modules. These diagrams represent the maximum capacity of the average system footprint.

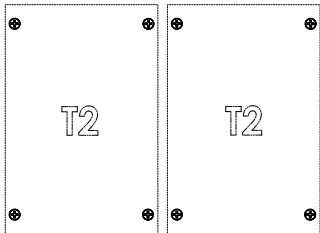
FlexPower Key

LifeSafety Power FlexPower modules come in three sizes: T1, T2, T3. The footprint for the largest module (T1) could alternatively accommodate two medium modules (T2) or four small modules (T3).

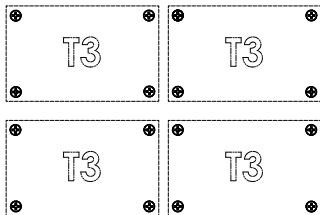
The medium size footprint (T2) could alternatively accommodate two small modules (T3).



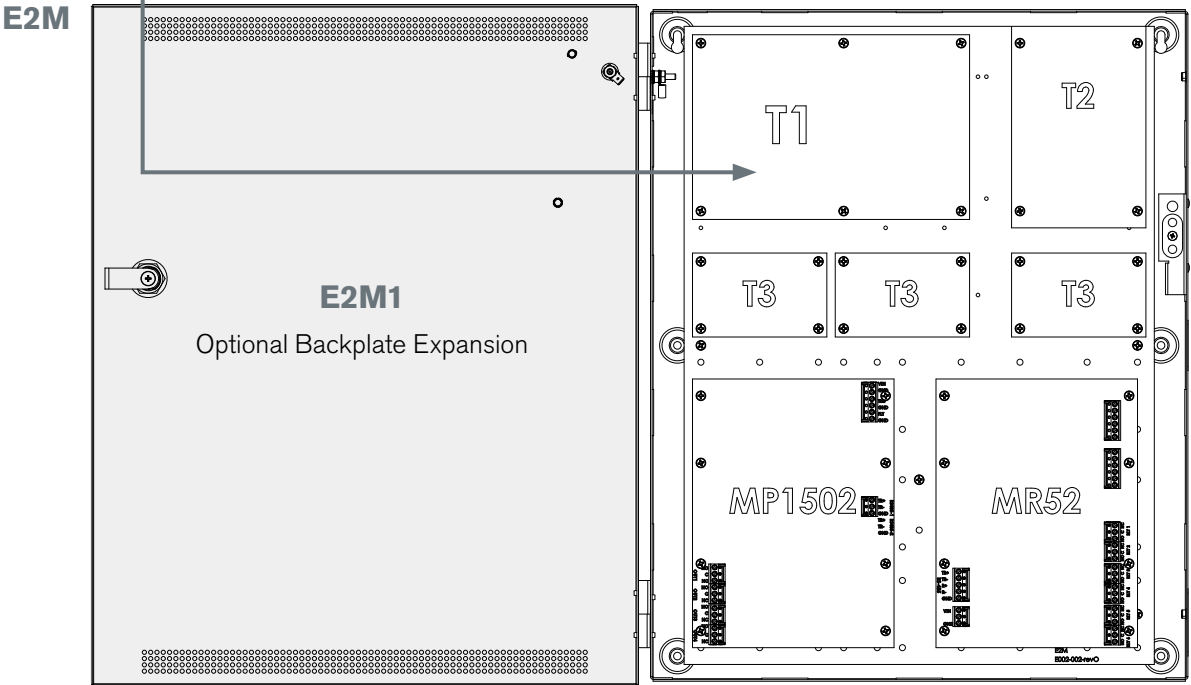
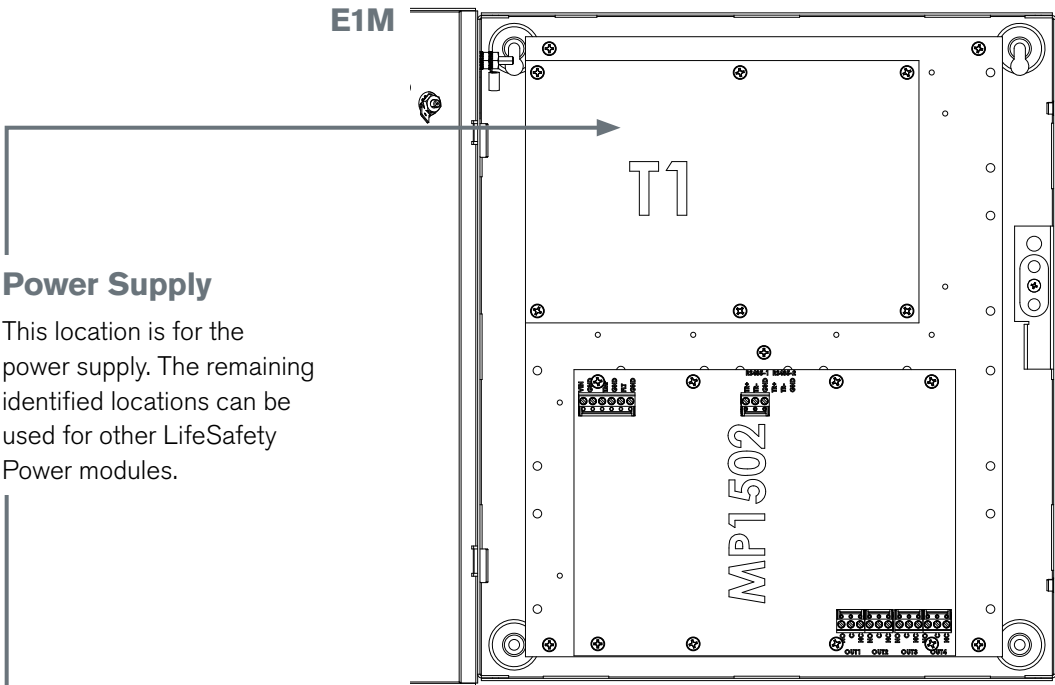
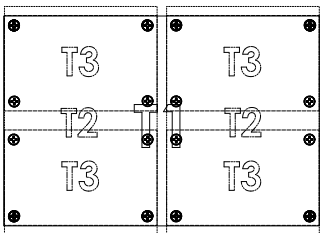
8.25" x 5.5" x 2.5"



4" x 6" x 2.5"



4" x 2.5" x 1.5"



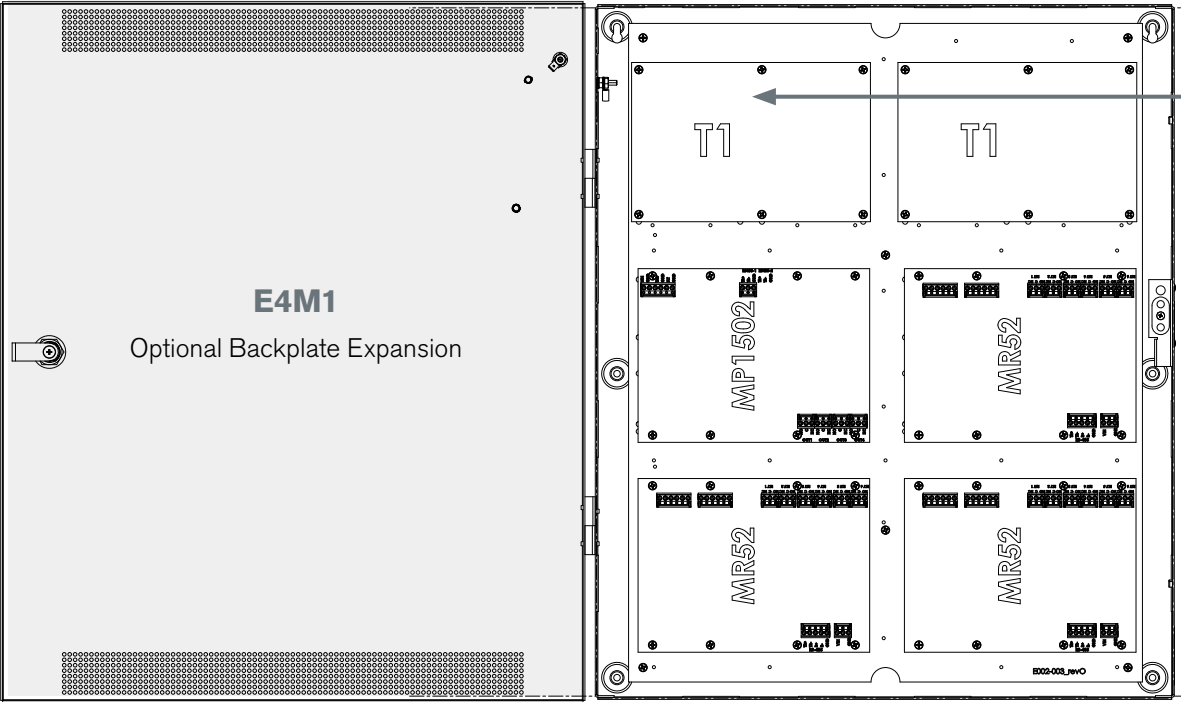
Flexible Configuration Options

To view customization options of the full system, check out our online tools.



FlexPower and Mercury Configurable Footprint (CONTINUED)

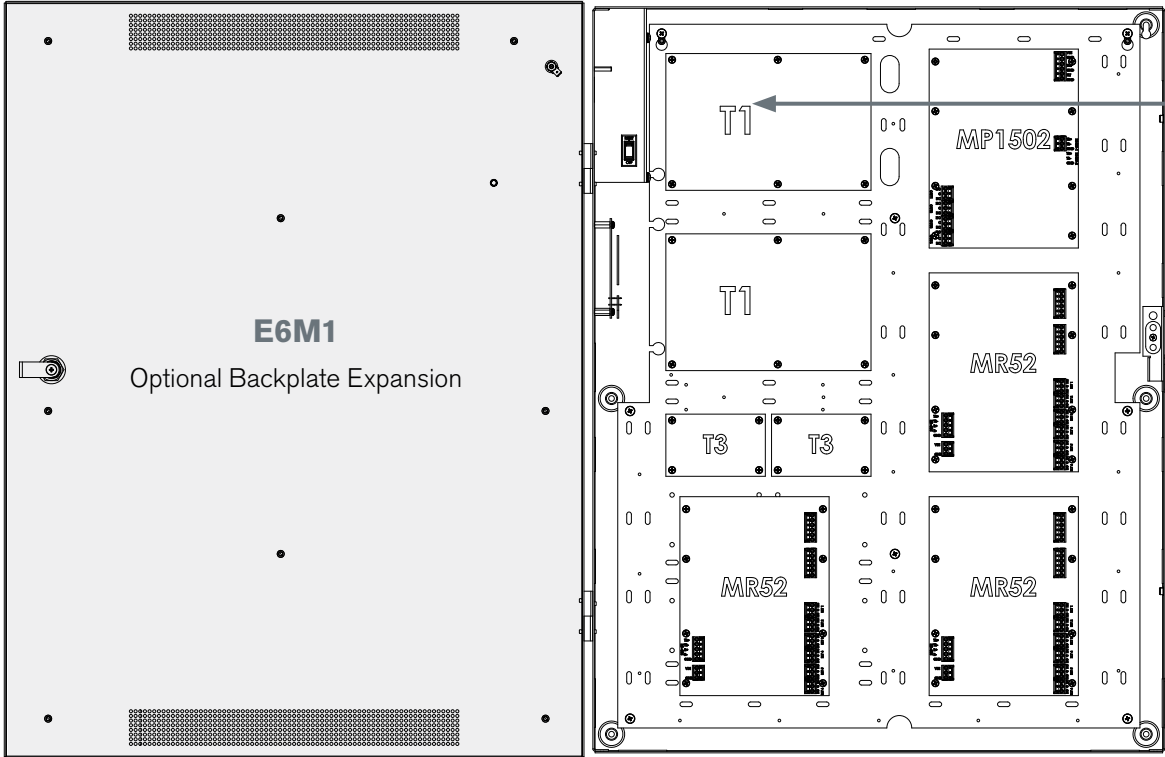
E4M



Power Supply

This location is for the power supply. The remaining identified locations can be used for other LifeSafety Power modules.

E6M



Power Supply

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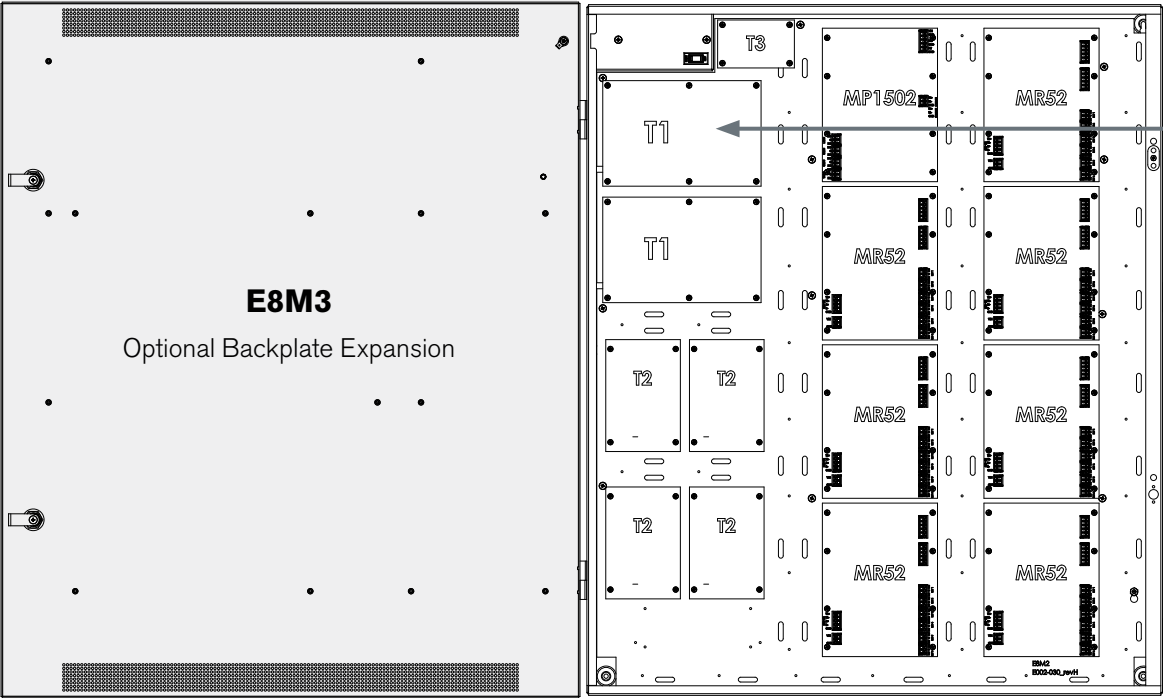
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FlexPower and Mercury Configurable Footprint (CONTINUED)

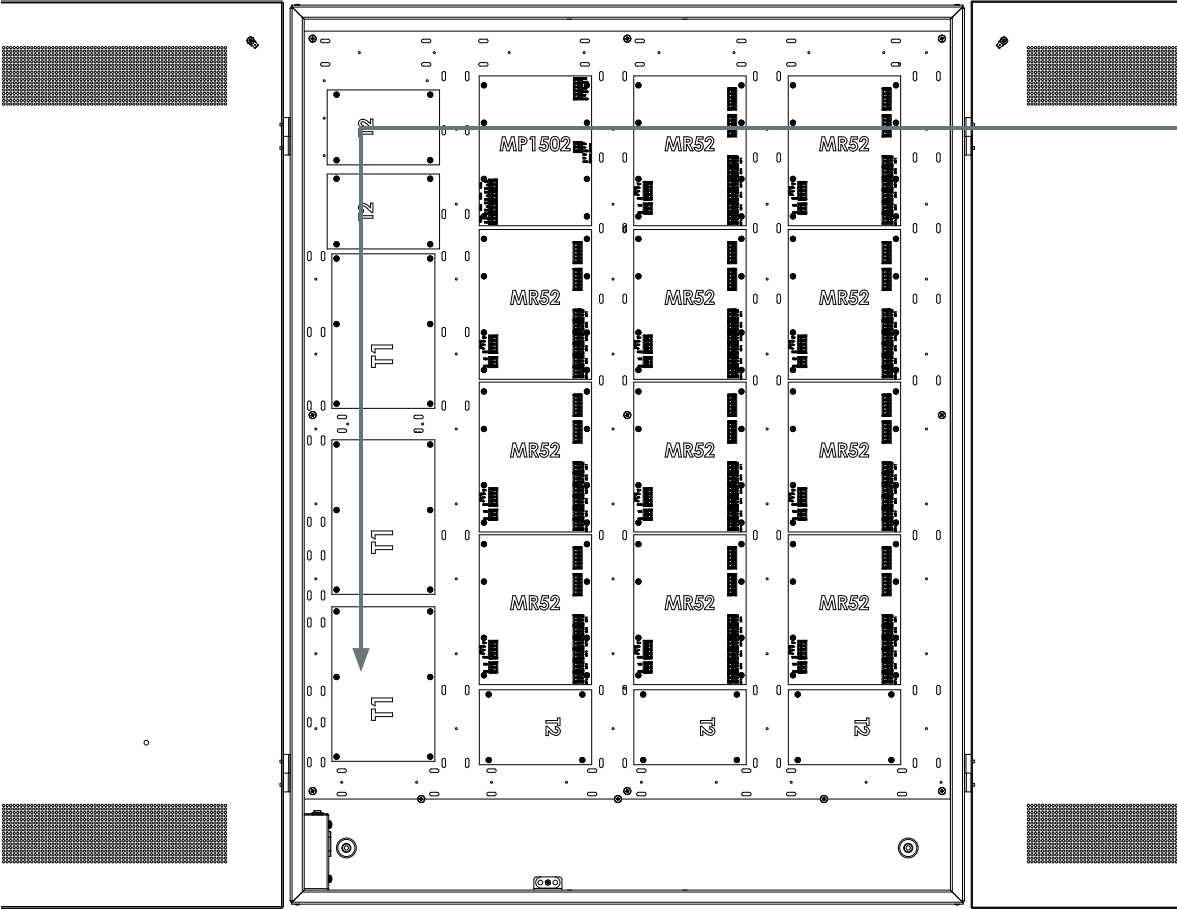
E8M2



Power Supply

This location is for the power supply. The remaining identified locations can be used for other LifeSafetyPower modules.

E12M



Power Supply

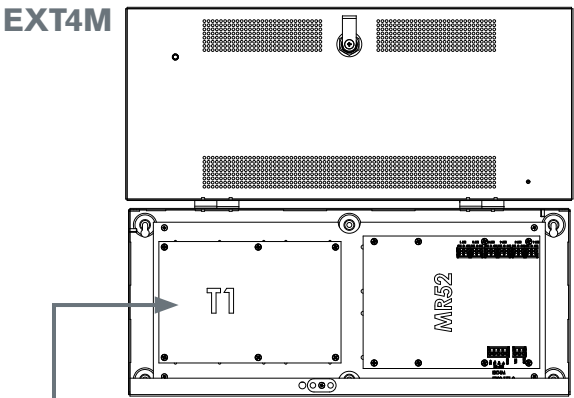
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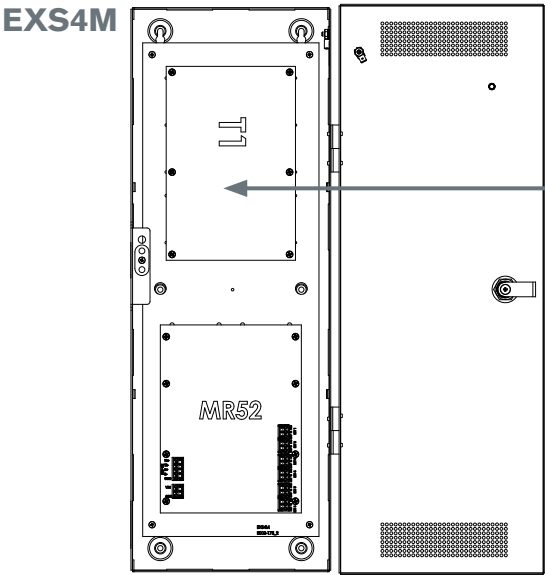


FlexPower and Mercury Configurable Footprint (CONTINUED)



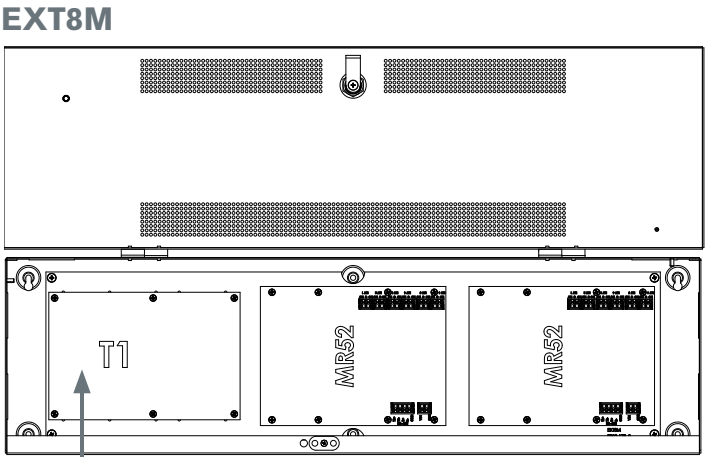
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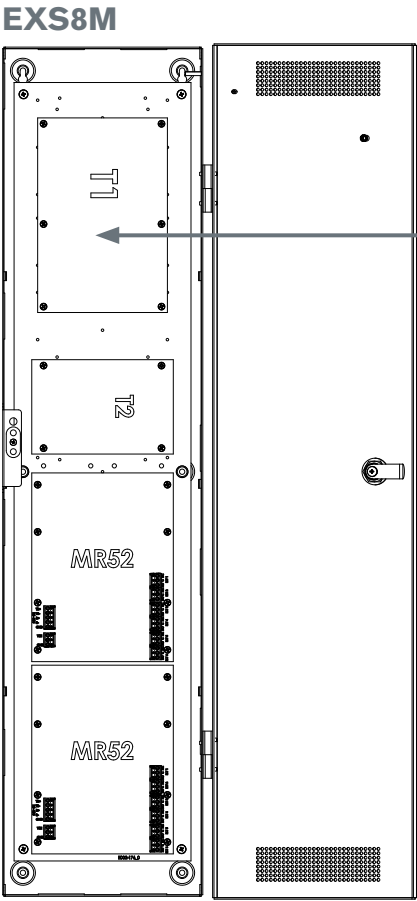
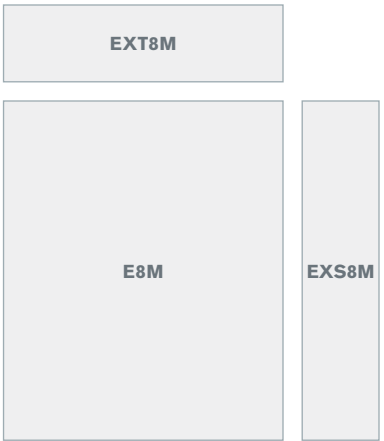
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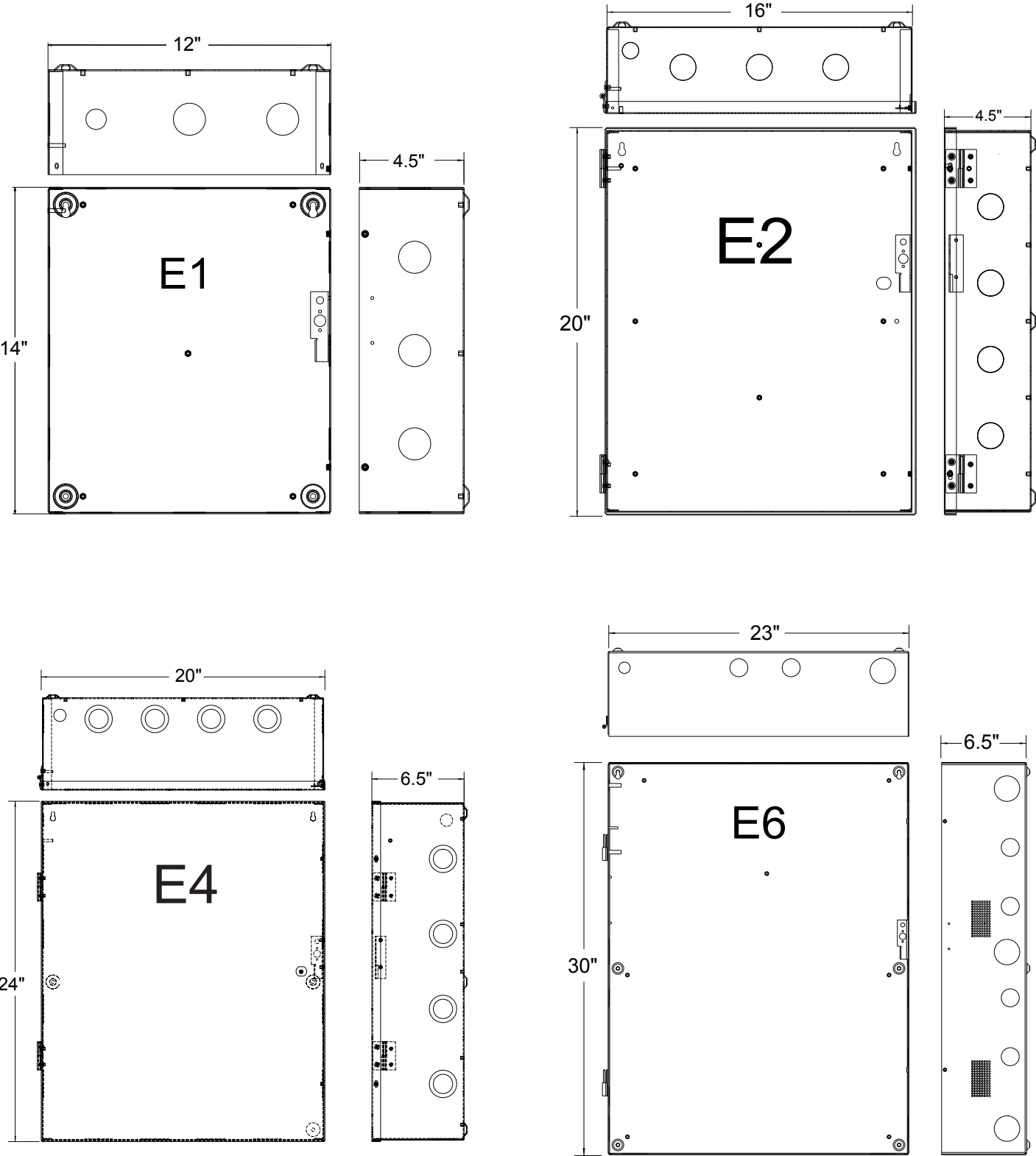
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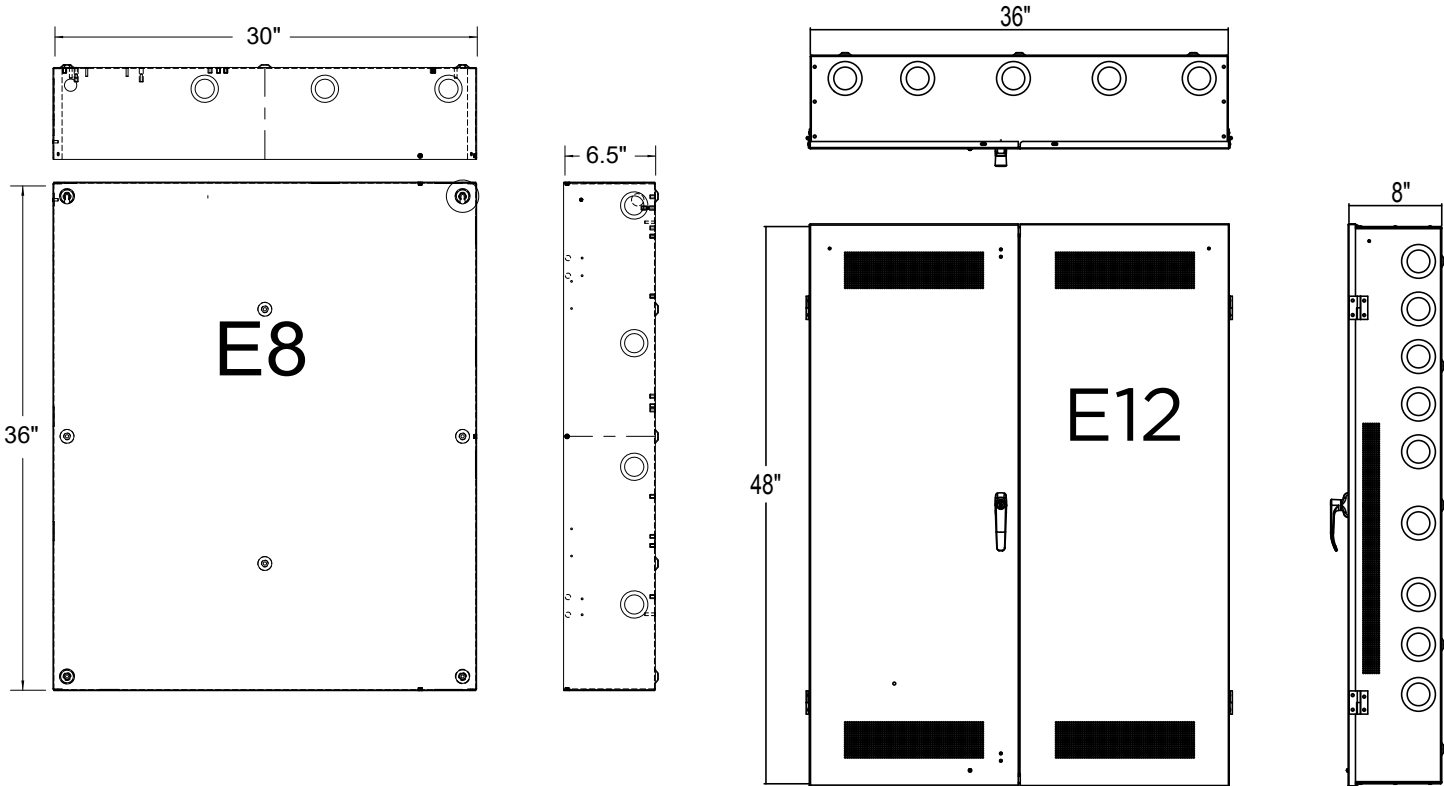
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Dimensions



Dimensions (CONTINUED)



Dimensions (CONTINUED)

