

Overview

Gemini Rackmount Unified Power Solutions for Mercury integrate system power, lock power and Mercury controllers into one LifeSafety Power(LSP) rackmount enclosure. 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 8 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 test. Each LSP output is protected against electrical surges caused by lightning or transients on the external wiring (SurgeShield) and each LSP control output is individually selectable for available DC voltages, either failsafe or failsecure 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 rear Knockouts
 - Flexible backplate mounting locations with threaded studs
 - Comprehensive wire management with internal tie down points
- Standard 19" rack drawer design with slides to simplify installation and maintenance.
- Integrated access system with lock and system power distribution
- 120 or 230V AC user selectable input and integrated AC main switch

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
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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 (M8/SD4/SD16)
- Individual output selection for failsafe, failsecure, 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 | Remote reset capability
- 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, RoHS

Lifetime Warranty

Specifications

Input Power	Input 120/230 VAC 50/60 Hz 83 Watts (FPO75) 170 Watts (FPO150) 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: D8 fused at 3A/ea, D8P Class II Power limited at 2.5A/ea C8/C8P four control outputs: C8 fused at 3A/ea, C8P Class II Power limited at 2.5A/ea M8/M8P eight managed lock outputs: M8 fused at 3A/ea, M8P Class II Power limited at 2.5A/ea SD4/SD4P four managed auxiliary outputs: SD4 fused at 3A/ea, SD4P Class II Power limited at 2.5A/ea SD16 sixteen managed auxiliary outputs: SD16 Class II Power limited at 1A/ea Individually selectable outputs on dual voltage systems		
Network Connectivity for Managed Power	NL4 four SPI Connections NLX eight SPI Connections; 16 RS485 Connections		
Supervision	AC input, DC1, and DC2 output Low battery and battery presence supervision (form C contacts) AC fail supervision (form C contacts) System Fault, AC Fault, Ground Fault, Reverse Battery		
External Indicators	AC on (rear switch), Mercury status LEDs (front panel)		
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	UL294 6th Edition, UL603, UL1076, ULC S318, ULC S319		
Access Panel Mounting	Accommodates one to four LP or MP series boards, depending on configuration		
BTU Rating	FPO75: 33BTU/hr, FPO150: 66BTU/Hr		
Operating Temperature	ALL MODELS Ambient Temperature 0°C to 49°C (32°F to 120°F) Ambient Humidity 93% at 32°C (90°F) maximum Storage Temperature -30°C to 70°C (-22°F to 158°F)		
Physical Dimensions	RG Size: 3.5"H x 19"W x 20.5"D (8.89 x 48.26 x 52.07 cm) RGX Size: 3.5"H x 19"W x 36.5"D (8.89 x 48.26 x 92.71 cm) Requires minimum 40" rack depth		

Ordering

Doors	Model No.	Network	Voltage (VDC)	Current	Internal Distribution			Dimensions
					Bulk	Auxiliary	Lock	
2-4	RGM75-C4D8PZ	No	12 or 24V	6A/12V or 3A/24V	2	8	4	3.5" x 19" x 20.5"
	RGM75-M8PNZ	Yes			2	0	8 MGD	
	RGM75B-C4D8PZ	No	12 and 24V	2A/12V and 2A/24V	3	8	4	
	RGM75B-M8PNZ	Yes			3	0	8 MGD	
6-8	RGXM150-D8PM8N	No	12 or 2V	12A/12V or 6A/24V	2	8	8	3.5" x 19" x 36.5"
	RGXS75/150-D8M8N	Yes			2	8	8 MGD	
	RGXM150-M8NL42SD4	Yes			2	8 MGD	8 MGD	
	RGXM150B-C8D8P	No	12 and 24V	4A/12V and 4A/24V	3	8	8	
	RGXM150B-D8PM8N	Yes			3	8	8 MGD	
	RGXM150B-M8NL42SD4	Yes			3	8MGD	8 MGD	

MGD—Managed Outputs

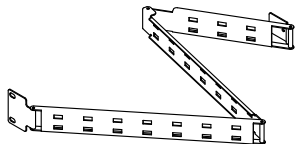
Single voltage—factory set to 12VDC

Dual voltage—outputs can be individually set for 12V or 24VDC

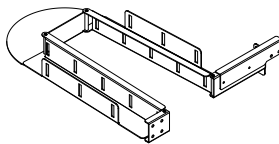
Networking—monitors power supply, battery set and relay control outputs

Wire Management

Z-brackets are used for wire management with RGM systems. The following options are available.



Z 2-4 Doors

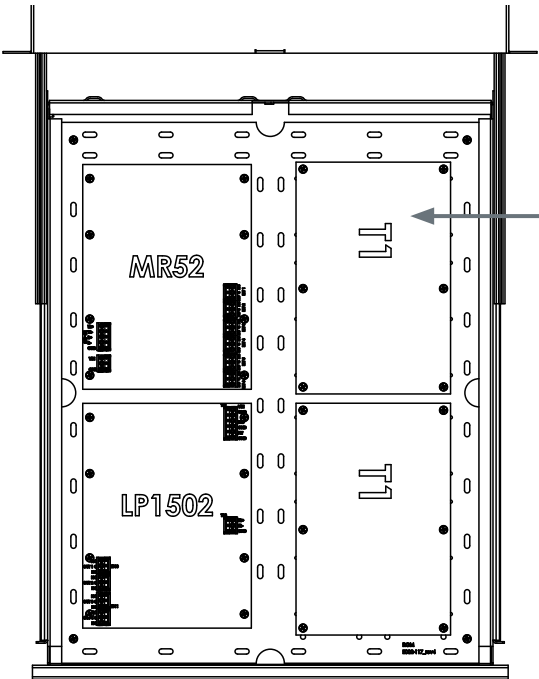


Z1 6-8 Doors

FlexPower and Mercury Configurable Footprint

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

RGM



Power Supply

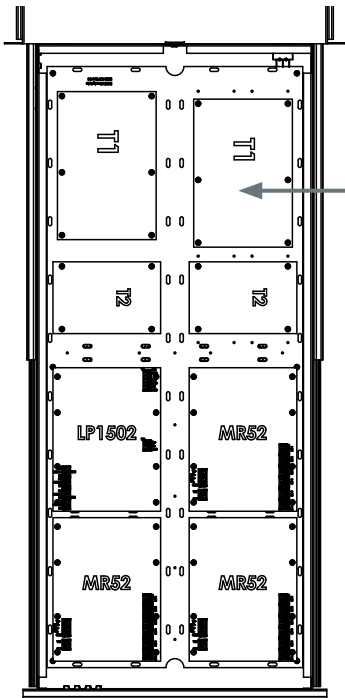
This location is for the power supply. The remaining identified locations can be used for other LifeSafety Power modules.

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).

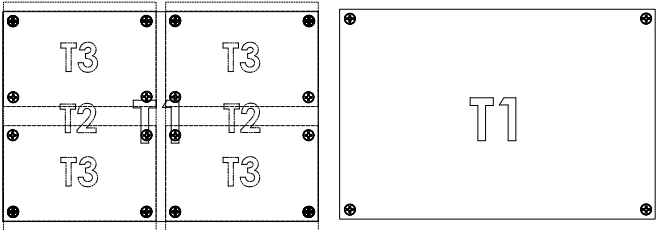
The medium size footprint (T2) could alternatively accommodate two small modules (T3).

RGXM

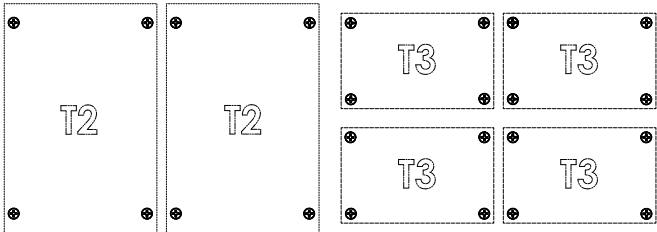


Power Supply

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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 Product Configurator.



Dimensions

