



## Overview

Solving the industry problem of how to use the popular Mercury Security® access control products in a 19 inch rack environment, the **GEMINI™ RGM Series** is a UL listed rackmount system designed to provide both operating power and a mechanical housing for Mercury Security access control components. The unit is intended for mounting within a standard four post EIA 19 inch electronics rack with a maximum depth of 36 inches.

RGM enclosures provide mounting for two Mercury and multiple LifeSafety Power FlexPower® devices in an access control system capable of controlling four doors as a standalone or multiple doors when interconnected. The LSP equipment is provided as part of the RGM enclosure, Mercury equipment is provided by the integrator based on the job requirements.

Available options include 120 or 230VAC input, 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 limiting, 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, and either failsafe or failsecure operation with fire alarm interface.

Network reporting capabilities include: operational fault status; power supply output; battery charging voltage; battery charging current, fire alarm input and status of each individual output. 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.

## RGM Features

- UL Listed with Mercury controllers as a complete four door system
- Compartmentalized four door power architecture for maximum reliability
- Rack drawer slide assembly simplifies Mercury wiring and maintenance
- EP1502 status LED on front panel
- 120 or 230V AC user selectable input supports data center electrical systems
- Comprehensive wire management with tie down points & "Z" articulating arm

## Network Monitoring and Reports

- Power supply operation and faults
- Battery run time, low battery, time to service
- Voltage and current of individual outputs with remote reset
- External room temperature

## Configuration Options

- 12V/24VDC single or dual voltage options cover all access functions
- Power distribution for either direct (D8P) or buffered (C4P) lock control
- Individual output selection for failsafe, failsecure, lock voltage and fire alarm interface
- High capacity battery charge capability
- Automotive fuses for ease of service and replaceability
- Easy door expansion with multiple RGM models
- Available companion battery housing for rackmount use (part number: RBE)

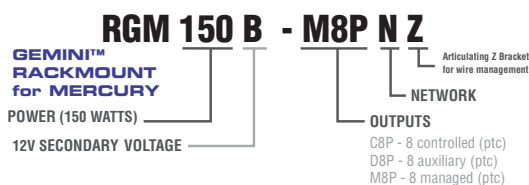
## Fire Alarm Interface

- 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 Mercury controllers or used standalone
- Form C contact transfer for AC Loss or brownout
- Form C contact transfer for abnormal system operation

## Lifetime Warranty



## Ordering

*Model No.	Network	Voltage	Current	Internal Distribution			
				Bulk	Auxiliary	Control	Managed
RGM150-D8PZ		12V or 24V	12A/12V or 6A/24V	2	8		
RGM150-C8PZ				2		8	
RGM150-M8PNZ	Yes			2			8
RGM150B-D8PZ		12V and 24V	4A/12V and 4A/24V	2	8		
RGM150B-C8PZ				2		8	
RGM150B-M8PNZ	Yes			2			8

Single voltage - factory set to 12VDC

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

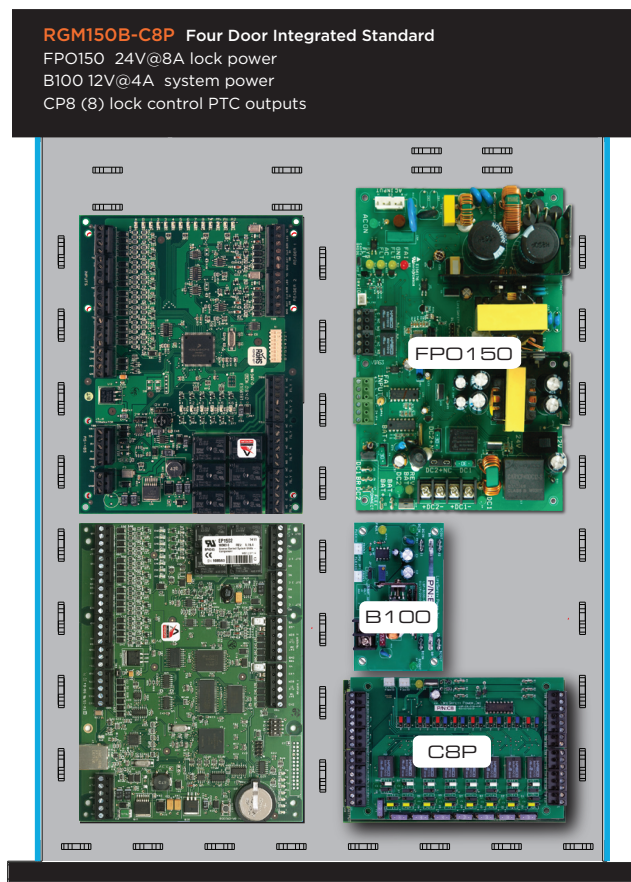
Networking - monitors power supply, battery set and relay control outputs

For CE 230VAC option, add " / E" suffix to model number, i.e RGM150-D8PZ/E

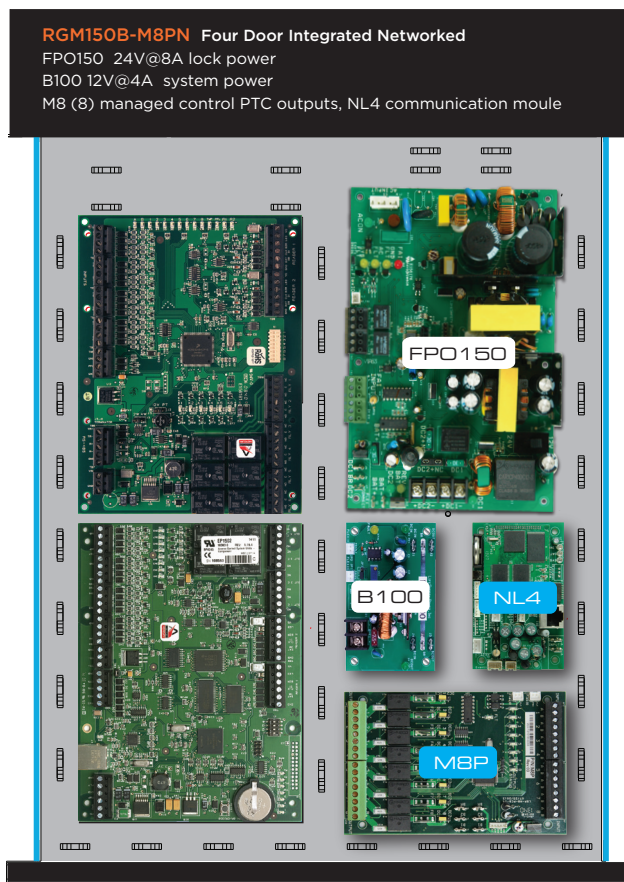
## Specifications

<b>Input Power</b>	Input 120/230 VAC 50/60 Hz   170 Watts Thermal overload protection / Short circuit protection
<b>Output Power</b>	RGM150 150 Watts: 12 amps at 12 VDC or 6 amps at 24 VDC (factory default setting is 12VDC) RGM150B 150 Watts: 4 amps at 12 VDC and 4 amps at 24 VDC (factory set to 24VDC and 12VDC) (allows 2A per controller and 0.50A per lock. If controller draws is less, lock power can be more)
<b>Internal Power Distribution</b>	D8/D8P eight auxiliary outputs: D8 fused at 3A/ea, D8P Class II Power limited at 2.5A/ea C4/C4P four control outputs: C4 fused at 3A/ea, C4P Class II Power limited at 2.5A/ea M8/M8P eight managed outputs: M8 fused at 3A/ea, M8P Class II Power limited at 2.5A/ea – Individually selectable outputs on dual voltage systems
<b>Supervision</b>	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
<b>External Indicators</b>	AC on master on/off switch   Front Panel Mercury Security Status LEDs
<b>Battery Charging</b>	Maximum charge current 2.0 amp   Maximum battery capacity 80Ah Independent built-in charger for sealed lead acid or gel type batteries Microprocessor dual rate 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
<b>Regulatory Compliance</b>	CE UL294 6th Edition, UL603, UL1076, ULC S318, ULC S319 (Mix and match Mercury and LSP modules together)
<b>Access Panel Mounting</b>	Two slots for EP1502, EP2500, MR52
<b>BTU Rating</b>	RGM150, RGM150B 66BTU/Hr
<b>Physical Dimensions</b>	2U rack mount (19.00"W x 3.50"H x 20.50"D)   Weight 24 lbs.   Z bracket wire management articulating arm

Drawer layout example of 4 door dual voltage



Drawer layout example of 4 door dual voltage managed system



**INTERNAL POWER DISTRIBUTION options****DISTRIBUTED POWER TO MERCURY RGM150-D8P (D8)****Eight individually protected power outputs**

- D8P Class 2 power limited at 2.5A per output
- D8 Fused at 3A per output

**Visual Indicators**

- DC Presence: Green LED per output

**Removable terminals**

- Accepts #12 to #24 AWG

**CONTROL OUTPUTS FOR LOCKS RGM150B-C4P (C4)****4 access control trip inputs****4 individually protected lock control outputs**

- C4P Class 2 power limited at 2.5A per output
- C4 Fused at 3A per output

**Each input may be programmed to respond to:**

- Application of voltage between 9 and 33VDC
- Removal of voltage between 9 and 33VDC
- Normally open dry contact transition
- Normally closed dry contact transition

**Each output may be programmed for the following modes:**

- Voltage output from power supply one
- Voltage output from power supply two
- Fail-safe, Fail-secure
- Fire alarm over ride for egress lock control

**Visual Indicators**

- DC Presence: Green LED per output
- Fault Condition: Yellow fault LED

**Removable terminals**

- Accepts #12 to #24 AWG

**MANAGED OUTPUTS FOR LOCKS & MERCURY RGM150B-M8P (M8)****8 access control trip inputs****8 individually protected managed control outputs**

- M8P Class 2 power limited at 2.5A per output
- M8 Fused at 3A per output

**Each input may be programmed to respond to:**

- Application of voltage between 9 and 33VDC
- Removal of voltage between 9 and 33VDC
- Normally open dry contact transition
- Normally closed dry contact transition
- Activation or deactivation through software

**Each output may be programmed for the following modes:**

- Voltage output from power supply one
- Voltage output from power supply two
- Fail-safe, Fail-secure
- Fire alarm over ride for egress lock control
- AC loss over ride for egress lock control
- Trigger points based on voltage or current values to send an alert via email or SNMP

**Visual Indicators**

- DC Presence: Green LED per output
- Fault Condition: Yellow fault LED

**Removable terminals**

- Accepts #12 to #24 AWG

**FAULT DETECTION AND REPORTING****DETECTED FAULT CONDITIONS (ALL MODELS)****AC Power**

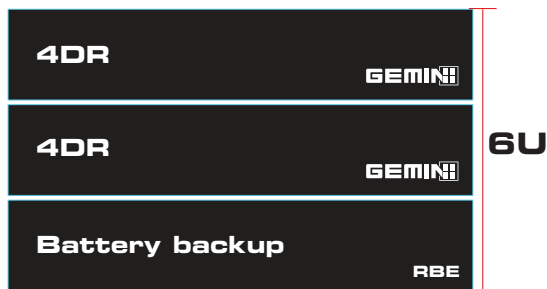
- AC loss, AC low, Master AC power switch

**DC Power and System**

- Abnormal or loss of power supply operation
- Over current, over temperature condition
- DC output high, low
- Battery Presence, Earth Ground (user optional)
- Reversed battery condition, blown fuse or loss of output voltage on selected accessory boards (detected on the power supply)

**EXPANSION | BATTERY BACK-UP****8-16 Doors**

- Stack multiple Gemini rack mounts for higher door counts
- Add RBE battery enclosure for battery back up

**8 door battery back up**

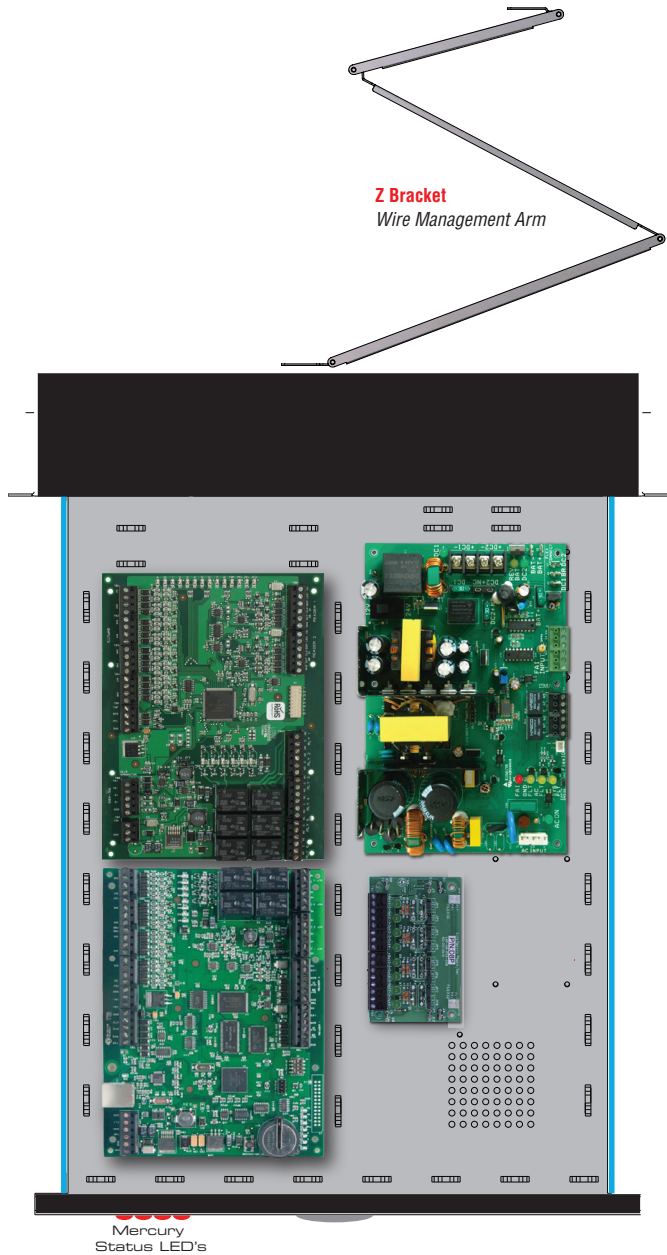
## WIRE MANAGEMENT

### Wire tie points

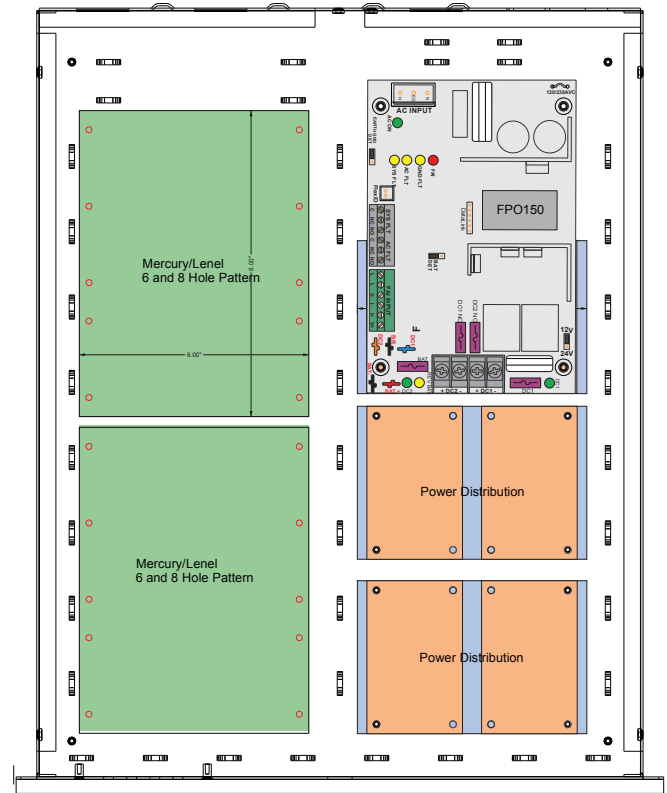
- Drawer tie down points for access wiring
- Back chassis tie down points secures wire bundle

### Articulating arm

- Z bracket with tie wrap points secures access wiring into drawer

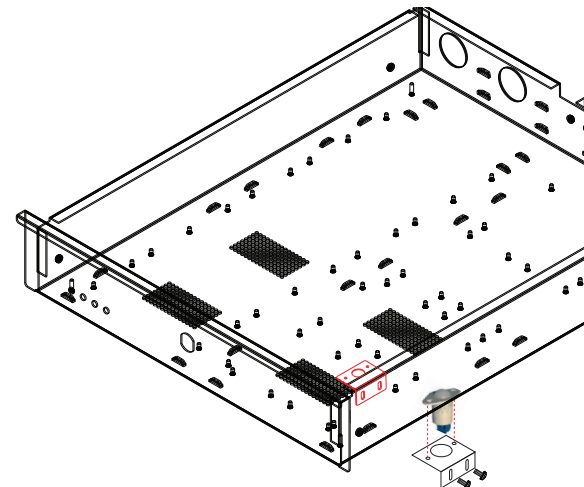
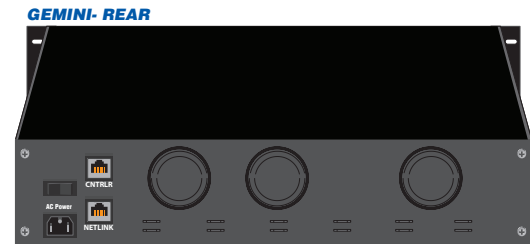
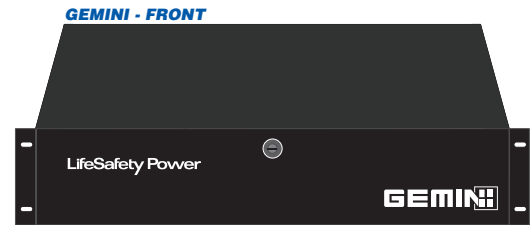
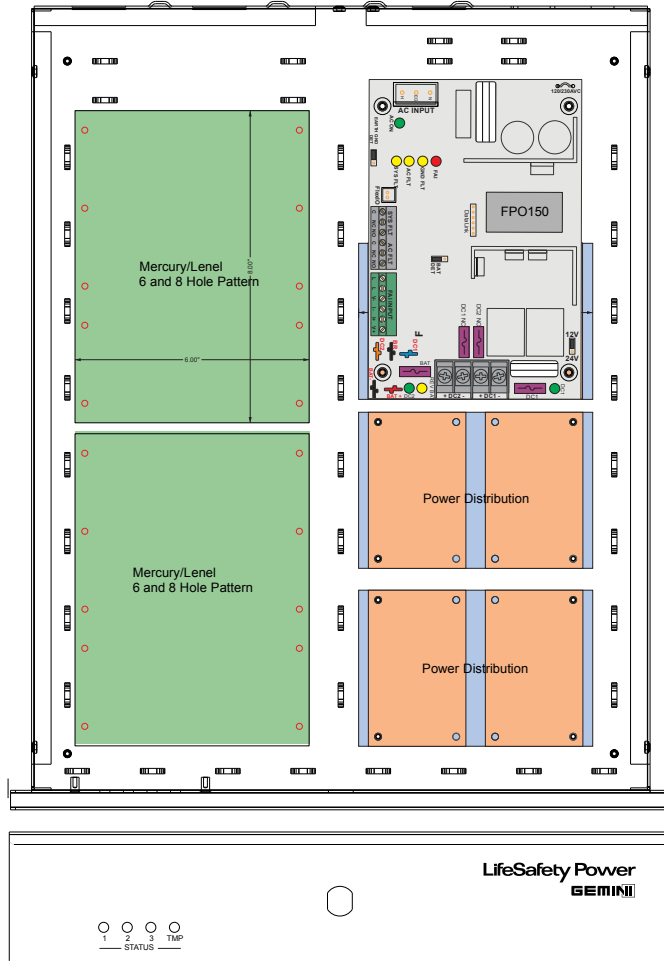
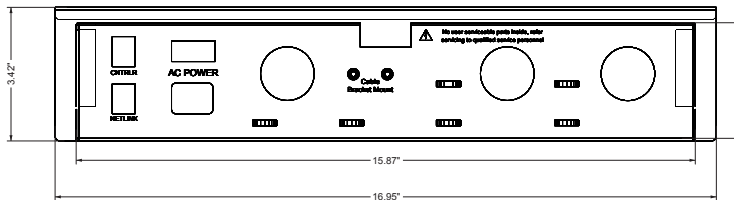


## BACKPLATE CONFIGURATION OPTIONS



## Mechanical

2U rack mount 19.00"W x 3.50"H x 20.50"D  
Weight 27 lbs.



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### Optional Tamper Switch

Part Number	A05-311	Tamper and mounting bracket
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