GEMINI™

Overview

The RGS150 Series is a 150W integrated 2U rackmount power system that incorporates system power, lock power and various combinations of Software House controllers.

RGS enclosures provide mounting for one ISTAR ULTRA or ULTRA SE ACM and multiple LifeSafety Power FlexPower® devices in an access control system capable of controlling eight doors as a standalone or multiple doors when interconnected. LSP power modules are provided based on RGS model number and SWH controllers are provided by the integrator based on the job requirements.

Available options include single (12V 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 output is protected against electrical surges caused by lightning or transients on the external wiring (SurgeShield™) and each control output is individually selectable for available DC voltages, and 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.

The unit is intended for mounting within a standard four post EIA 19 inch electronics rack with a maximum depth of 36 inches.



RGS150 B - D8 N Z - E

- GEMINI™ RACKMOUNT for Software House
- POWER (150 WATTS)
- SECONDARY VOLTAGE
- DISTRIBUTION OUTPUTS
  - C8 - 8 lock control M8 - 8 managed
  - D8 - 8 auxiliary
  - *C8P, D8P, M8P = class II*
- NETWORK
- WIRE MGMT
- 230 VAC

Rackmount Features

- Integrated access system with lock and system power distribution
- Compartmentalized architecture for maximum reliability
- Rack drawer slide assembly simplifies controller wiring and maintenance
- Comprehensive wire management with tie down points and articulating bracket
- 120 or 230V AC user selectable input supports data center electrical systems

Configuration Options

- Single voltage or 12 and 24VDC dual voltage options cover all access functions
- Power distribution for either direct (D8) buffered (C8) or managed (M8)
- 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 Gemini drawers
- Available companion battery housing for rackmount use (part number RBE)

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 (M8N model)
- Monitor alert external room temperature

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, CE, BIS, NOM, RCM
- **Lifetime Warranty**

Ordering

Model No.	Network	Voltage	Current	Internal Distribution: Bulk	Auxiliary	Control	Managed
RGS150Z		12VDC	12A	2			
RGS150-D8Z				2	8		
RGS150-C8Z				2		8	
RGS150-C8D8Z	Yes			2	8	8	
RGS150-D8M8NZ	Yes			2	8		8
RGS150B-D8Z		12V and 24V	4A and 4A	2	8		
RGS150B-C8Z				2		8	
RGS150B-M8NZ	Yes			2			8
RGS-XZ	Rackdrawer only						

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

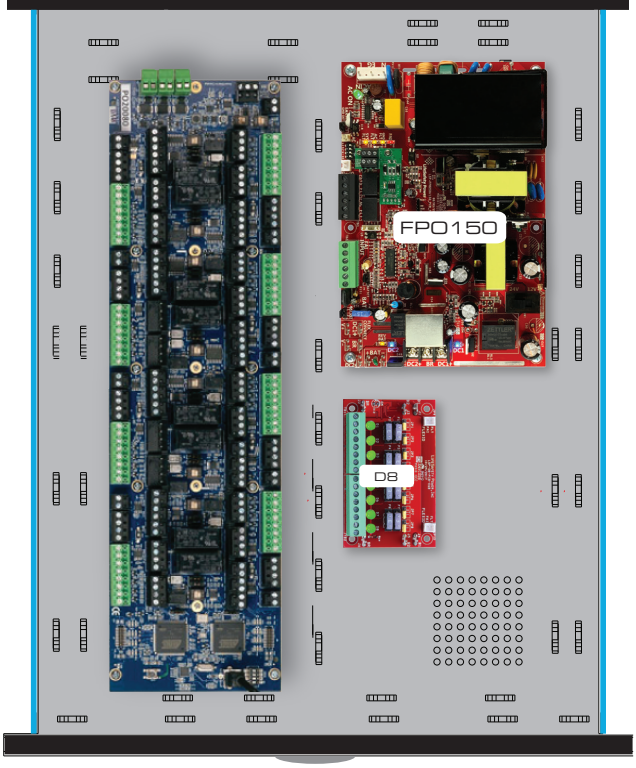
For Class II power limiting add "P" to accessory module in model number, ie C8P, D8P, M8P
For CE 230VAC option, add " / E" suffix to model number, i.e RGS150-C8Z/E

Specifications

Input Power	Input 120/230 VAC 50/60 Hz | 170 Watts Thermal overload protection / Short circuit protection
Output Power	RGS150 150 Watts: 12 amps at 12 VDC RGS150B 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 draw is less, lock power can be more)*
Internal Power Distribution	D8/D8P eight auxiliary outputs: D8 fused at 3A/ea, D8P Class II Power limited at 2.5A/ea C8/C8P eight control outputs: C8 fused at 3A/ea, C8P Class II Power limited at 2.5A/ea – *Individually selectable outputs on dual voltage systems*
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 master on/off switch
Battery Charging	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
Regulatory Compliance	UL294 6th Edition, UL603, UL1076, ULC S318, ULC S319, CE
Access Panel Mounting	Slot for mounting either one (1) iSTAR ULTRA or SE ACM or up to four (4) I/O boards
BTU Rating	RGS150, RGS150B 66BTU/Hr
Physical Dimensions	2U rack mount (19.00"W x 3.50"H x 20.50"D) with wire management articulating arm | Weight 27 lbs.

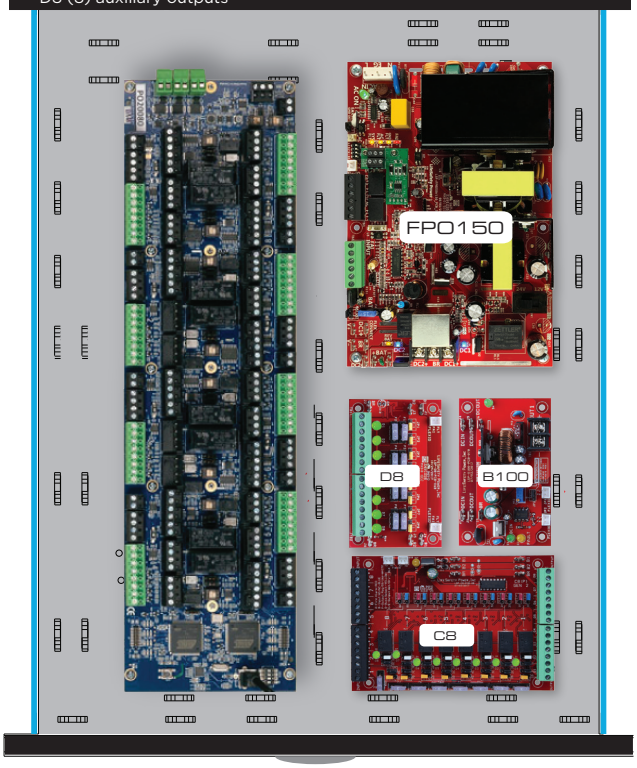
Drawer layout example of 8 door single voltage

RGS150-D8 Eight Door Single Voltage
FPO150 12V@12A power
D8 (8) auxiliary outputs



Drawer layout example of 8 door dual voltage

RGS150B-C8D8 Eight Door Dual Voltage
FPO150 24V@4A lock power
B100 12V@4A
C8 (8) lock outputs
D8 (8) auxiliary outputs



INTERNAL POWER DISTRIBUTION options

D8 - DISTRIBUTED POWER TO ACCESS CONTROLLER

Eight individually protected power outputs

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

Visual Indicators

- *DC Presence: Green LED per output*

Removable terminals

- *Accepts #12 to #24 AWG*

C8 - CONTROL OUTPUTS FOR LOCKS

8 access control trip inputs

8 individually protected lock control outputs

- *C8 Fused at 3A per output*
- *C8P Class 2 power limited at 2.5A 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*

FAULT DETECTION AND REPORTING

DETECTED FAULT CONDITIONS (ALL MODELS)

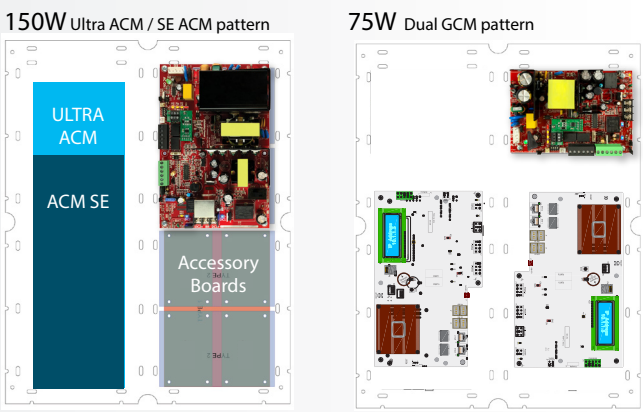
AC Power

- *AC loss, AC low, Master AC power switch*

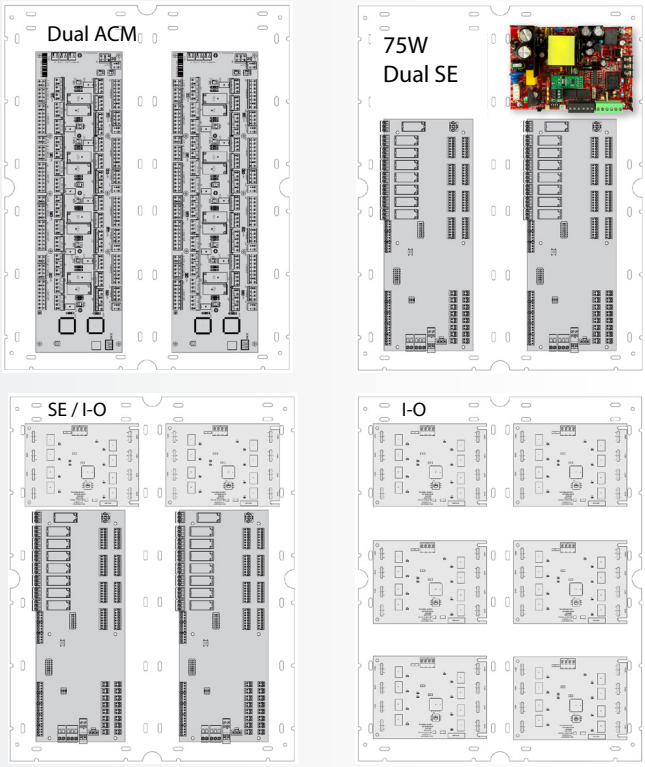
DC Power and System

- *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)*

VERSATILE CONFIGURATION OPTIONS



ISTAR CONTROLLER PATTERNS



*Order model number **RGS-XZ** for bare drawer and backplate*

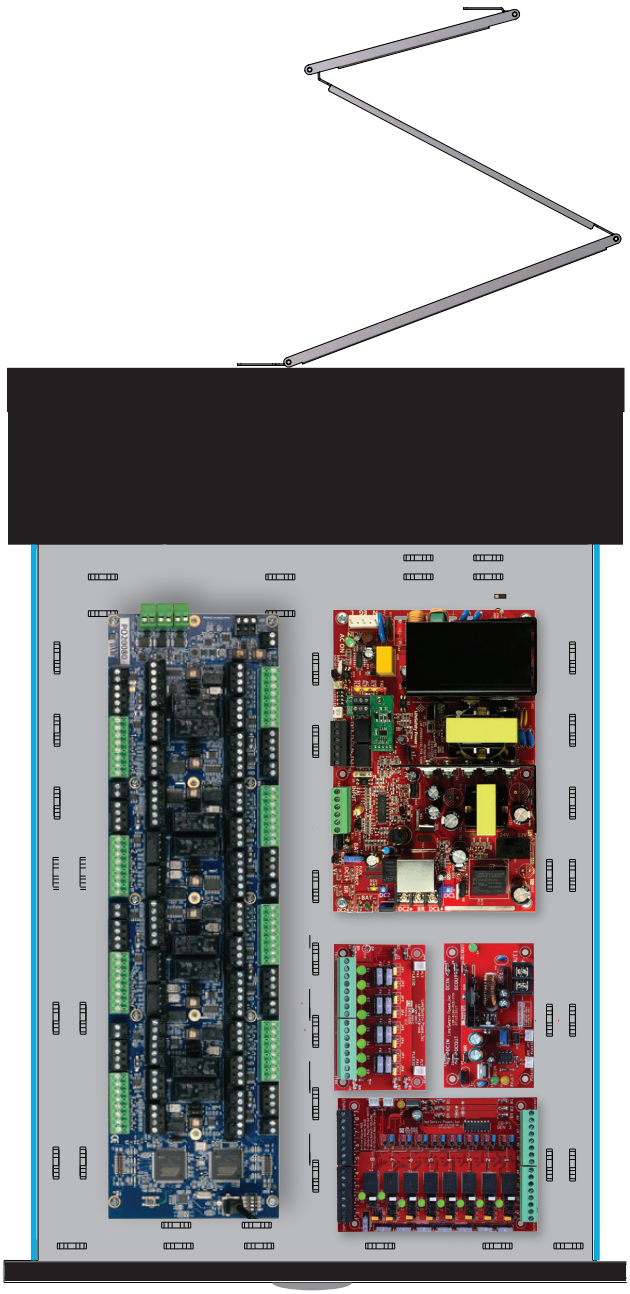
WIRE MANAGEMENT

Wire tie points

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

Cable management articulating arm

- *Bracket with tie wrap points secures access wiring into drawer*



EXPANSION | BATTERY BACK-UP

8-16 Doors

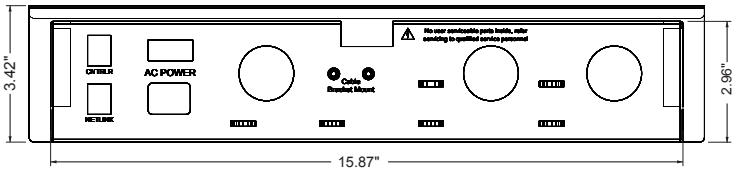
- *Stack multiple Gemini rack mounts for higher door counts*
- *Add RBE battery enclosure for battery back up*

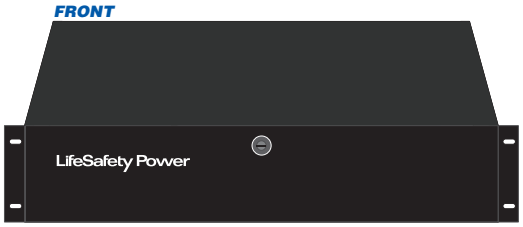


16 door w/ battery back up
(SWH GCM rack separate)

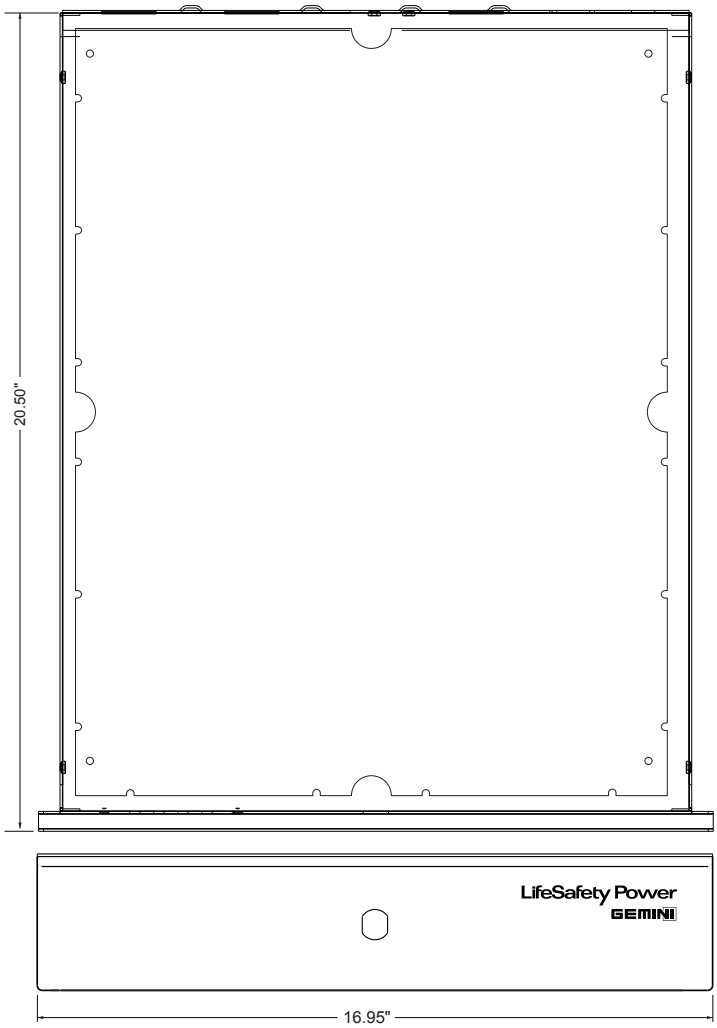
Mechanical

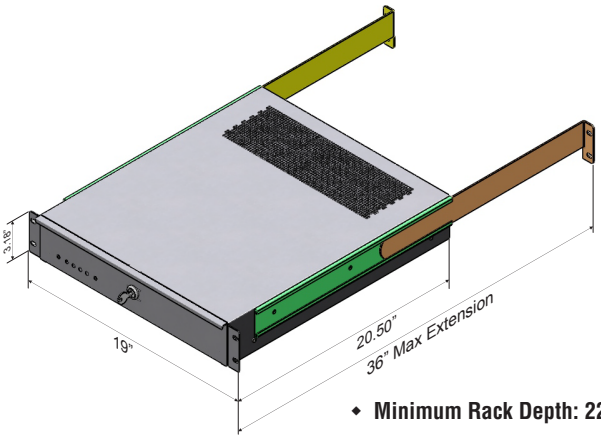
2U rack mount 19.00"W x 3.50"H x 20.50"D
Weight 27 lbs.



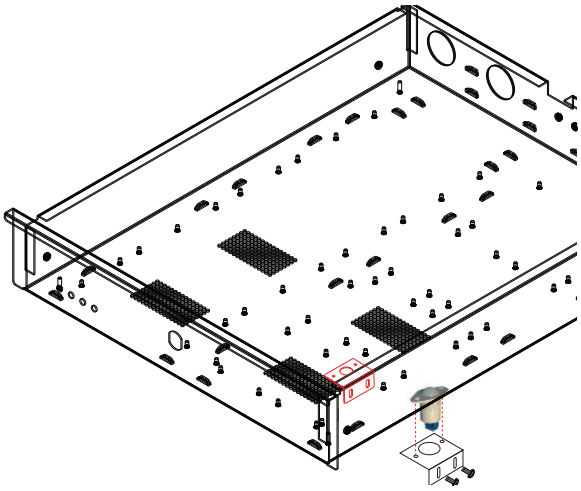








- **Minimum Rack Depth: 22"**



Included Tamper Switch

Part Number	A05-311	Tamper and mounting bracket

lifesafetypower.com

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Specifications subject to change without notice.

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