

Overview

Gemini Rackmount Unified Power Solutions for Software House (SWH) integrate system power, lock power and SWH controllers into one LifeSafety Power (LSP) rackmount enclosure. iStar Ultra or Ultra SE 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.

Enclosure 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

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
- High capacity battery charge capability
- Automotive fuses for ease of service and replaceability


FLEXPOWER
UNIFIED POWER SOLUTIONS

Software House


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

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

Industry Standards

- UL, CUL, RoHS

Lifetime Warranty

Specifications

Input Power	Input 120/230 VAC 50/60 Hz 170 Watts (FPO150) 250 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 four 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	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)		
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 GCM, ACM, or ACM SE series boards, depending on configuration		
BTU Rating	FPO75: 33BTU/hr, FPO150: 66BTU/Hr, FPO250: 175BTU/Hr		
Operating Temperature	ALL MODELS 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	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		

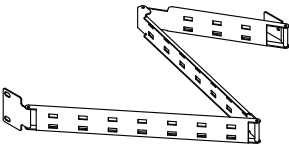
Ordering

Compatible Access Panels	*Model No.	Network	Voltage (VDC)	Current	Internal Distribution			Dimensions
					Bulk	Auxiliary	Lock	
ACM or GCM	RGS150B-C8Z	No	12 and 24	4A/12V & 4A/24V	3	0	8	3.5" x 19" x 20.5"
	RGS150B-M8NZ	Yes			3	0	8 MGD	
ACM and GCM	RGXS75/150-C8D8	No	12 and 24	6A/12V & 6A/24V	4	16	16	3.5" x 19" x 36.5"
	RGXS75/150-D8M8N	Yes			4	16	16	
	RGXS75/150-M8NL4SD16	Yes			4	16	16 MGD	

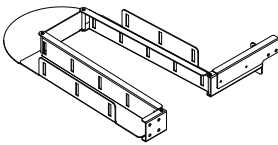
MGD—Managed Outputs Single voltage—factory set to 12VDC Dual voltage—outputs can be individually set for 12V or 24VDC
Networking—monitors power supply, battery set and relay control outputs

Wire Management

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



Z 2-4 Doors

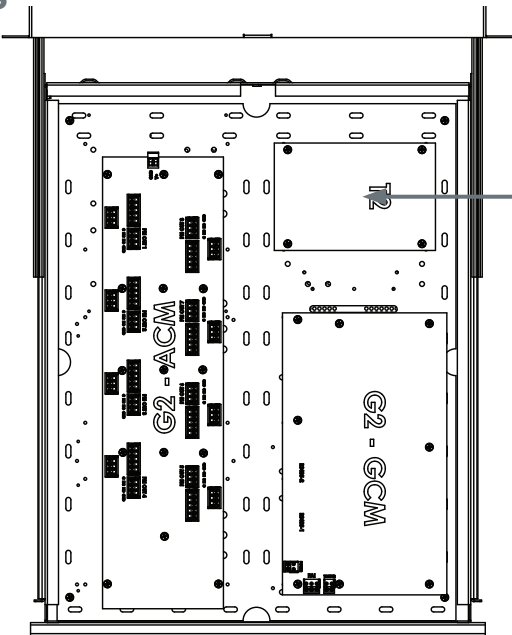


Z1 6-8 Doors

FlexPower and Software House Configurable Footprint

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

RGS



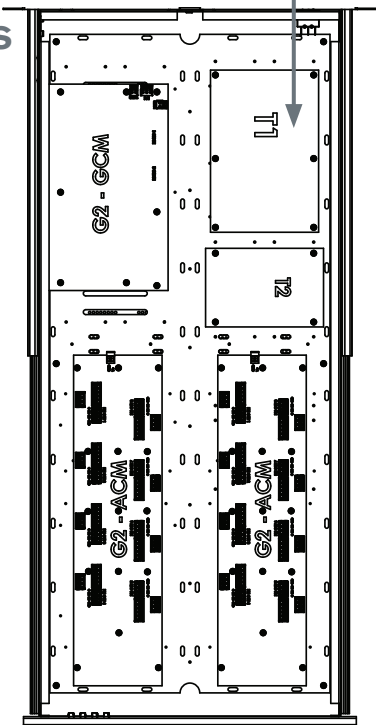
Power Supply

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

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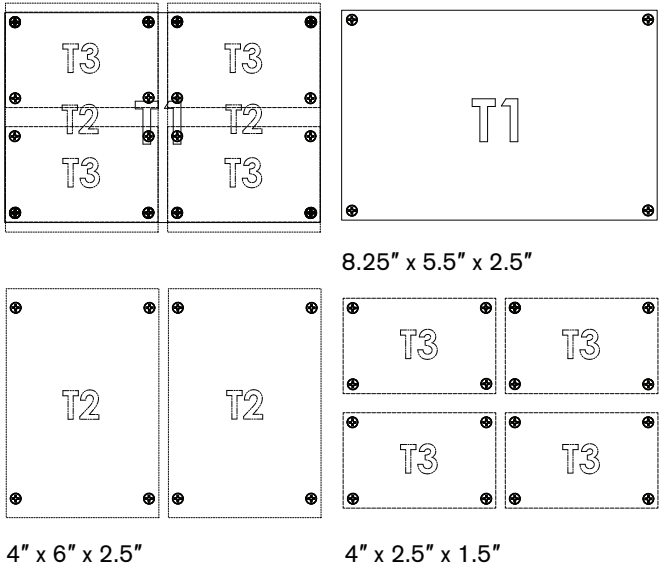
RGXS



FlexPower Key

LifeSafetyPower 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).



Flexible Configuration Options

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



Dimensions

