



# LG375/600 Series

SINGLE-PHASE CENTRAL LIGHTING INVERTER

DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_

TYPE: \_\_\_\_\_ PROJECT: \_\_\_\_\_

CATALOG #: \_\_\_\_\_



## FEATURES

- AC output provides full lumen output for emergency lighting loads
- Compatible with LED, fluorescent and incandescent lamps
- Pure sine wave output mitigates LED inrush current
- For normally-on, normally-off and switched and dimmed loads
- 90-minute emergency operation
- Input/Output VAC : 120/120 or 277/277
- 375 - 600 VA/W maximum capacity
- UL 924 Listed, CEC Title 20 Compliant
- Self-testing/diagnostics and Adjustable Output w/ 4 Output Circuits available



LG600

LG375



**LISTED**  
**56B5**

EMERGENCY  
LIGHTING  
EQUIPMENT

## SPECIFICATIONS

### APPLICATION

- Designed for indoor installation in commercial or industrial applications.
- Emergency AC power is supplied to lighting fixtures equipped with incandescent, linear fluorescent, compact fluorescent or LED lamps
- The lighting load can be installed at a distance of up to 1,000 feet from the LiteGear® central lighting inverter
- Observe all required AC conductor sizing requirements
- When using LED lamps, consider LED in-rush current in load calculations

### OPERATION

- When normal utility supplied power is interrupted, the LiteGear® Series unit will automatically transfer to emergency mode in less than 2-seconds and begin supplying inverted, battery-derived pure sine wave output power to the load for 90 minutes
- The unit is capable of operating normally on, normally off, switched or dimmed loads
- A low voltage battery disconnect circuit will prevent “deep discharge” damage to the battery
- The charging circuit will bring the batteries to full recharge within UL time standards
- A “brownout” circuit will automatically transfer the unit to emergency power if the utility voltage falls to a pre-determined “low line” limit

### CONSTRUCTION

- The LiteGear® enclosure and cover are constructed of heavy-duty, steel with a white powder-coat paint finish.

### COMPLIANCES

- UL 924 (Emergency Lighting)
- Suitable for Damp Location
- Life Safety Code (NFPA 101)
- National Electrical Code (NFPA 70)
- State and Local Code compliant
- CEC Title 20 Compliant

### WARRANTY

- Unit and Electronics: 3 years full\*
- **Self-Test Model Unit and Electronics:** 5 years full\*
- **SLA Lead Calcium Battery:** 3 years full, 7 years pro-rata

\* excludes fuses

KEY DATA	
Input/Output (VAC)	120/120 or 277/277
Wattage Range	375/600W
Input Current Range (Amps)	1.5-5.5



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## ORDERING GUIDE

Example: LG375SI-AO-CB

CATALOG #

LG				Options	
Model	Capacity	Mounting	Self-Diagnostics		
LG Litegear® Central Lighting Inverter	375 375VA/W 600 600VA/W	S Surface Wall	Blank None I Self Testing/Diagnostics		Blank None AO Adjustable Output (4 - levels) with 4 output circuits CB Two (2) 10A Output Circuit Breakers

## SPECIFICATIONS

### ELECTRONICS

**Input/Output:** 120/120VAC or 277/277VAC, 60 Hz

**Input/Output Connections:** Terminal block

**Operating Temperature Range:** 20°C to 30°C (68°F to 86°F)

**AC Lockout:** Prevents battery discharge following installation when branch circuit AC power is not present.

**Low Voltage Battery Disconnect:** Protects the battery from damaging "deep discharge" conditions during prolonged power failures.

**Brownout Protection:** Automatically transfers to emergency power when utility voltage drops to a point that would cause fluorescent lamps to extinguish.

Overload and Short Circuit Protection provided.

**Test Means:** Manual "TEST" button.

### LED Indicators:

LG375/LG600: "AC-ON" (red), "Charging-ON" (green), "Inverter On" (amber)  
 LG375SI/LG600SI: "Normal Mode" (green steady), "Test Mode" (green blink), "High Charge" (red/green blink), "Inverter ON" (amber).

### BATTERY

Maintenance-free, SLA lead calcium with 10 year rated life.

### OPTIONAL SELF-TEST/SELF DIAGNOSTICS

Provides visual indication for battery, charger and load faults. Conducts automatic 30-second battery discharge test every 30 days, a 30-minute test every 6 months, and a 90-minute test once a year. Test switch allows for manual initiation of a 30-second, a 30-minute or a 90-minute system test

### OPTIONAL ADJUSTABLE OUTPUT

Allows dimmable LED fixtures with 0-10V drivers to be connected to and powered by the LiteGear inverter during power outages. In emergency mode, four independent output circuits disconnect the load side of the local dimmer control, and connect the selected loads to the LiteGear output(s). All four emergency circuits are user-programmable to operate the connected fixtures at approximately 25%, 50%, 75% or 100% of nominal output during power outages.

#### -AO Option Input / Output Connections

	# of Inputs	# of Outputs
Line Voltage Switch	4	4
0-10V Dimming	4	4

## OUTPUT LOADING

	LG375S	LG375SI	LG600S	LG600SI
Power Rating (VA - W)	375/375		600/600	
Power Factor Range	0.88 lead to 0.88 lag			
Weight (lb) with batteries	113		172	
Maximum Input Current (A)	120 VAC : 3.4 A 277 VAC : 1.5 A		120 VAC : 5.5 A 277 VAC : 2.4 A	
System DC Voltage	60		96	
Recharge Time (Hr)	96		96	

Output of all (4) dimming circuits (Volts)	Maximum Load (Watts)							
	2.5		5.0		7.5		10.0	
	Norm Mode	Emerg Mode	Norm Mode	Emerg Mode	Norm Mode	Emerg Mode	Norm Mode	Emerg Mode
Model	Norm Mode	Emerg Mode	Norm Mode	Emerg Mode	Norm Mode	Emerg Mode	Norm Mode	Emerg Mode
LG375S-AO	1350	375	675	375	450	375	375	375
LG375SI-AO	1350	375	675	375	450	375	375	375
LG375S-AO-CB	1350	375	675	375	450	375	375	375
LG375SI-AO-CB	1350	375	675	375	450	375	375	375
LG600S-AO	2160	600	1080	600	720	600	600	600
LG600SI-AO	2160	600	1080	600	720	600	600	600
LG600S-AO-CB	2160	600	1080	600	720	600	600	600
LG600SI-AO-CB	2160	600	1080	600	720	600	600	600



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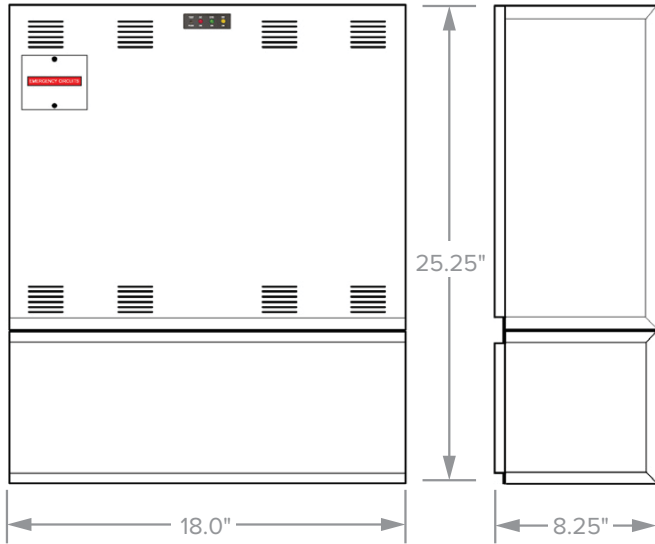
DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_

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## DIMENSIONS

LG600



LG375

