



LG750/950/1150 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, switched and dimmed loads
- 90-minute emergency operation
- Input/Output VAC : 120/120 or 277/277
- 750–1150 VA/W maximum capacity
- UL 924 Listed, CEC Title 20 Compliant
- Self-testing/diagnostics and Adjustable Output with 4 Output Circuits available



LiteGear®



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	750/950/1150W
Input Current Range (Amps)	3.26–10.2



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ORDERING GUIDE

Example: LG950SI-CB

CATALOG # _____

LG				Options	
Model	Capacity	Mounting	Self-Diagnostics		
LG Litegear® Central Lighting Inverter	750 750VA/W	S Surface Wall	Blank	None	
	950 950VA/W		I	Self Testing/Diagnostics	
	1150 1150VA/W				
Options					
Blank None					
AO Adjustable Output (4 - levels) with 4 output circuits ^{1,2}					
CB Six (6) 10A Output Circuit Breakers					

- Notes:
- Maximum loading of each circuit must be 1,035 watts or less.
 - 15A branch circuit max.

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: LG750S/950S/1150S: "AC-ON" (red), "Charging-ON" (green), "Inverter On" (amber)
 LG750SI/LG950SI/LG1150SI: "Normal Mode" (green steady), "Test Mode" (green blink), "High Charge" (red/green blink), "Inverter ON" (amber).

BATTERY

Maintenance-free, SLA lead calcium with 7 year rated life.

	LG750S	LG750SI	LG950S	LG950SI	LG1150S	LG1150SI
Power Rating (VA - W)	750/750		950/950		1150/1150	
Power Factor Range	0.88 lead to 0.88 lag					
Weight (lb) with batteries	190		222		254	
Maximum Input Current (A)	120 VAC : 7.53 A 277 VAC : 3.26 A		120 VAC : 8.45 A 277 VAC : 3.66 A		120 VAC : 10.2 A 277 VAC : 4.42 A	
System DC Voltage	48		60		72	
Recharge Time (Hr)	96					

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

Output of all (4) dimming circuits (Volts)	Maximum Load (Watts)							
	2.5		5.0		7.5		10.0	
Model	Norm Mode	Emerg Mode	Norm Mode	Emerg Mode	Norm Mode	Emerg Mode	Norm Mode	Emerg Mode
LG750S-AO	2700	750	1350	750	900	750	750	750
LG750SI-AO	2700	750	1350	750	900	750	750	750
LG750S-AO-CB	2700	750	1350	750	900	750	750	750
LG750SI-AO-CB	2700	750	1350	750	900	750	750	750
LG950S-AO	3420	950	1710	950	1140	950	950	950
LG950SI-AO	3420	950	1710	950	1140	950	950	950
LG950S-AO-CB	3420	950	1710	950	1140	950	950	950
LG950SI-AO-CB	3420	950	1710	950	1140	950	950	950
LG1150S-AO	4140	1150	2070	1150	1380	1150	1150	1150
LG1150SI-AO	4140	1150	2070	1150	1380	1150	1150	1150
LG1150S-AO-CB	4140	1150	2070	1150	1380	1150	1150	1150
LG1150SI-AO-CB	4140	1150	2070	1150	1380	1150	1150	1150



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DIMENSIONS

