



LG250 Series

Single-Phase Central Lighting Inverter

Catalog Number	
Comments	Type

FEATURES

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 AC power to the load for 90 minutes. The unit is capable of operating normally on, normally off or switched 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. The 250VA/220W version provides a pure sine wave output.

Construction

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

Compliances

UL 924 (Emergency Lighting)
Life Safety Code (NFPA 101)
National Electrical Code (NFPA 70)
State and Local Code compliant

Warranty

Unit and Electronics: 3 years full*
Spectron® Model Unit and Electronics: 5 years full*
SLA Lead Calcium Battery: 3 years full, 7 years pro-rata

* excludes fuses

Batteries must be connected to an energized charging circuit within 90 days from date of shipment or warranty is void.

ORDERING GUIDE

LG	
Model	Capacity
250S	250VA/220W Sinewave
2SI	250VA/W Squarewave w/ Spectron® Self Test / Diagnostics

LiteGear®



LG250S
250VA Wall Mount
Surface Model

ACCESSORIES (order separately)

RTSLG	Remote Test Switch for LG2SI
RTSLP	Remote Test Switch for LG250S



LG250 Series

Single-Phase Central Lighting Inverter

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: AC and DC protection provided by fuses and automatic shut down.

Test Means: Manual "TEST" button.

LED Indicators: LG2SI: "AC-ON/Charging" (green), "Inverter-ON" (amber). LG250: "AC-ON" (red), "Charging-ON" (green), "Inverter On" (amber)

Battery

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

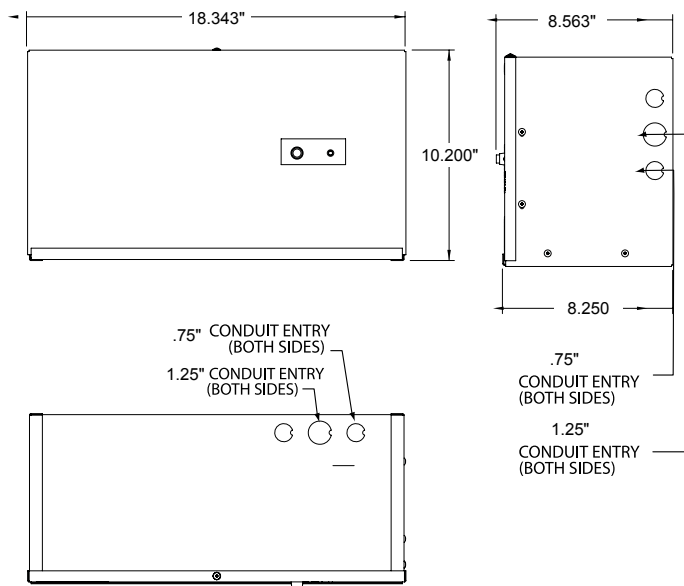
Optional Spectron® Self-Test/Self Diagnostics

Provides visual indication for battery, charger, transfer circuit and load faults. Conducts automatic 1-minute test every 28 days, a 30-minute test every 6 months, and a 60-minute test once a year. Also includes field selectable 15-minute retransfer delay. Test switch allows for initiation of a 1 minute or a 90-minute system test.

	LG250S	LG2SI
Power Rating (VA - W)	250/220	250
Power Factor Range	0.44 lead to 0.44 lag	0.8 lead to 0.7 lag
Form and Fit	Wall Mount Surface	
Weight (lb) with batteries	66	78
Maximum Input Current (A)	120 VAC: 2.4 A 277 VAC: 1.1 A	120 VAC: 2.5 A 277 VAC: 1.1 A
System DC Voltage	48	24
Recharge Time (Hr)	96	72

DIMENSIONS

LG2SI Wall Mount Surface Model



LG250S Wall Mount Surface Model

