LiteGear®

FREQUENTLY ASKED QUESTIONS FOR THE LG250SI

Why did Dual-Lite introduce the LG250SI model of the LiteGear inverter?
The LiteGear LG250SI model is an upgrade from the older LG2SI model in that it features a true sine wave output instead of a square wave output. A sine wave output inverter is inherently less susceptible to being overloaded by detrimental inrush currents associated with LED drivers. Being more tolerant to inrush current, the LG250SI can typically be loaded with as much as 33% more LED wattage than the LG2SI model.

How much load can be backed up by the LG250SI?
The LiteGear LG250SI can back up various types of electrical loads, both lighting and non-lighting. The amount of total load that the LG250SI can support is dependent upon the load type, quantity, wattage and/or voltage and peak current. The maximum rated load is 250VA; however, to account for load-dependent power factors and NEC based safety factors, please refer to Dual-Lite's Inverter Sizing / Selection Tool found in the ARC (http://www.duallite.com/resources/arc/inverter_selection/), for the most accurate sizing information based on your specific application.

What types of system faults are detected during self-test operations of the LG250SI?
The LiteGear LG250SI will test for and indicate operating faults with the battery, the battery charger and the connected lamps/loads. It utilizes a blinking red LED located on the display panel to identify the type of failure.

Are battery discharge tests performed per UL 924, Sec. 30.2?
Yes, after normal utility power has been supplied for at least 48 hours, an automatic, 30-second long, battery discharge test, with a randomized start time, will be performed every 30 days. Similarly, a 30-minute long discharge test will be performed every 180 days, and a 90-minute test performed every 365 days.

Can a manual battery discharge test be performed?
Yes, at any time you can perform a manual 30-second long, battery discharge test by pressing the test button, located on the display panel, one time. Press it 2 times (within 2 seconds) for a 30-minute long test, and 3 times for a 90- minute test.

Will the LG250SI offer dual-voltage (120VAC and 277VAC) inputs?
Yes, the 250VA rated LG250SI model features a dual 120VAC / 277VAC input. Selection of either 120V input voltage or 277V input voltage is made via field wiring.

What is the maximum wiring distance allowed between the lighting load and the LG250SI?
Use of 10 - 12 AWG cable will allow wiring distances up to 1000 feet between this inverter and the lighting load.

Will the LG250SI work with HID lamps?
No, the LG250SI is still rated as an IPS — an interruptible power supply, like the LG2SI model. This means that it does not maintain any kind of line synchronization to sustain HID type loads when transferring between normal power and emergency power. This power interruption will cause HID type luminaires to "wink-out." Afterward, they could take 10-15 minutes to undergo a restrike process to achieve full brightness. For backing up HID lamps, Dual-Lite recommends the use of its Synchron UPS (uninterruptible power supply) inverters.

Why is there only a surface mount version of the LG250SI?
The LG250SI model is heavier than the smaller 125VA LiteGear models. Recessed versions would have been larger and more difficult to properly mount, and since the wiring distance can be up to 1000 feet, the LG250SI can be conveniently surface mounted in virtually any electrical/mechanical room in the facility. Dual-Lite is also offering a remote test switch (RTSLP) as an accessory for the LG250SI, so that it will be possible to test the inverter while being able to directly observe the luminaires being tested.

Are colors other than white available?
While white is the only color available at the present time, all LiteGear inverters continue to be field paintable.

Will there be any replacement parts available for the LG250SI?
Yes, replacement batteries will be stocked and available for the LG250SI. Each LG250SI unit will require (4) of battery P/N 93068301.

The Dual-Lite team appreciates your support.
Feel free to contact us if you have additional questions.
Good Luck and Good Selling!

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0604082_DL_LG250SI_FAQ 04/18