LiteGear®

FREQUENTLY ASKED QUESTIONS FOR THE LG250

Why did Dual-Lite introduce the LG250S model of the LiteGear inverter?
The LiteGear LG250S model is an upgrade from the older LG2 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 LG250S can typically be loaded with as much as 33% more LED capacity than the LG2 model.

How much load can be backed up by the LG250S?
The LiteGear LG250S can back up various types of electrical loads, both lighting and non-lighting. The amount of total load that the LG250S 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.dual-lite.com/resources/arc/inverter_selection/), for the most accurate sizing information based on your specific application.

Can the LG250 inverters be used with 0-10V dimmers?
Yes, the Adjustable Output (-AO) versions allow dimmable LED fixtures, with 0-10V drivers, to be connected to and powered by the inverter during power outages. Two output circuits disconnect the load side of the local 0-10V dimmer control and connect the selected loads to the LiteGear output(s), effectively bypassing the dimmer. As a result, additional external bypass devices are not required.

What kind of output control do the Adjustable Output (-AO) versions provide?
Two output circuits contained in the –AO versions are independently field-programmable to operate the connected 0-10V dimmable LED fixtures at approximately 25%, 50%, 75% and 100% of nominal output during power outages. This level of control allows for cost efficient distribution of emergency illumination along the path of egress.

Will the LG250S work with HID lamps?
No, the LG250S is still rated as an IPS — an interruptible power supply, like the LG2 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.

Is the sine wave LG250S physically larger than the square wave LG2 inverter?
The sine wave LG250S occupies roughly 5% more wall space than the old square wave LG2; it is approximately 1.5" narrower, but 1.5" taller.

Will the LG250S work with DC lamps?
No, as an AC output inverter, it is only suited to power AC type lamps, ballasts and drivers.

Will the LG250S offer dual-voltage (120VAC and 277VAC) inputs?
Yes, the 250VA rated LG250S model will feature 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 LG250S?
Use of 10 - 12 AWG cable will allow wiring distances up to 1000 feet between this inverter and the lighting load.

Why is there only a surface mount version of the LG250S?
The LG250S model is heavier than the smaller 100VA 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 LG250S can be conveniently surface mounted in virtually any electrical/mechanical room in the facility. A remote test switch (RTSLP) is available as an accessory for the LG250S, 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.

Is Self-testing/self diagnostics available in the LiteGear family of inverters?
Yes, Dual-Lite offers the Spectron® self testing/self diagnostics option with the 250VA version (model LG250SI). This option provides a visual indication of battery, charger and load faults. Automatic discharge tests are performed every 30 days, 6 months and annually.

Will there be any replacement parts available for the LG250S?
Yes, replacement batteries will be stocked and available for all versions of the LG250S. Each LG250S 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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