LiteGear®

FREQUENTLY ASKED QUESTIONS FOR THE LG125

Why did Dual-Lite introduce the LG125S, LG125R and LG125T models of the LiteGear inverter?
The LiteGear LG125S, LG125R and LG125T models are an upgrade from the older LG1 models in that they feature a true sine wave output instead of a square wave output, in addition to an increase in VA/W output capacity from 100VA/W to 125VA/110W. 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 LG125 models can typically be loaded with as much as 67% more LED capacity than the LG1 models.

How much load can be backed up by the LG125 inverters?
The LiteGear LG125 can back up various types of electrical loads, both lighting and non-lighting. The amount of total load that the LG125 can support is dependent upon the load type, quantity, wattage and/or voltage and peak current. The maximum rated load is 125VA; 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 for the most accurate sizing information based on your specific application.

Can the LG125 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 LG125 models work with HID lamps?
No, the LG125 is still rated as an IPS — an interruptible power supply, like the LG1 models. 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.

Are the sine wave LG125 models physically larger than the older square wave LG1 inverters?
No, the sine wave LG125 models are actually smaller than their LG1 counterparts. The LG125S, LG125R and LG125T occupy roughly 25%, 40% and 9% less wall and ceiling space respectively than the square wave LG1 equivalents.

Will the LG125 models work with DC lamps?
No, as AC output inverters, they are only suited to power AC type lamps, ballasts and drivers.

Will the LG125 offer dual-voltage (120VAC and 277VAC) inputs?
Yes, the 125VA rated LG125 models 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 LG125?
Use of 10 - 12 AWG cable will allow wiring distances up to 1000 feet between this inverter and the lighting load.

Is the recessed ceiling T-Grid mount model, the LG125T, plenum rated?
Yes, the LG125T is compliant with UL 2043 for mounting in plenum spaces. This makes a separate plenum rated enclosure unnecessary, thereby simplifying ceiling mounted installations.

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 LG125?
Yes, replacement batteries will be stocked and available for all models of the LG125. Each model unit will require (2) 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!