

SPEC SHEET: ELLUMIGLOW 12V LOW NOISE EL INVERTER

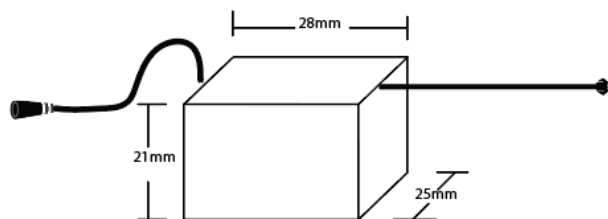
The Ellumiglow 12V Low Noise Inverter is a compact, efficient, inverter designed to be run outside of our audible range. When used within specification, this inverter emits no audible noise to the user. The way this is achieved is the inverter operates at a higher frequency and uses a proprietary potted design that allows for operation of many EL devices, but without the worry of interference or annoyance. This makes it ideal for numerous applications from tradeshow or retail, museum or library, automotive or stage performances, and many more. This inverter module is intended to always be run with a proper load attached. If the inverter is powered on without any Electroluminescent element connected, catastrophic failure to the inverter can occur.

**ALWAYS CONNECT AN ELECTROLUMINESCENT LOAD TO THE INVERTER
BEFORE CONNECTING POWER TO THE INVERTER**

This variable voltage and frequency inverter module is load dependent and will vary based on the size and type of load (EL Wire, Tape, VynEL, EL Panel, Paint, SewGlo™, etc). The minimum load for EL Wire is 1in (~25mm), and EL Tape or Panels is 0.5sqin (~3.2sqcm). The maximum load for EL Wire is 4M(~12ft), and EL Tape or Panels is 155sqcm (~24sqin). The maximum voltage and frequency rating for this inverter is 75V @ 8800Hz. This inverter uses our standard 1.3mm x 3.1mm Barrel Connector.

Size	SKU	Color	Voltage	Powers	Consumption	RATING
28 x 21 x 25mm	NEL020	BLACK	12V DC	1-12ft EL Wire 1-24sqin EL Panels	<250mA	IP20

MODULE DIAGRAM:



SAFETY INFORMATION:

The inverter module should be handled with caution. NEVER touch the bare input or output wires when connected to power.

FAQ

- **Do All Electroluminescent Materials Need An Inverter?**
Yes. All Electroluminescent material needs an inverter to operate. The inverter sends a specific voltage and frequency throughout the panel which excites the phosphor particles inside the wire creating the beautiful glow.
- **Can EL devices Be Cut?**
Yes, many EL devices and will continue to glow to the point where it is cut. We recommend sealing the cut area with a waterproof glue or tape immediately after cutting to avoid debris and moisture from entering the EL material and allow the material to last longer.
- **What Is The Inverter Actually Doing?**
The inverter is taking a 12V DC Input, and increasing the voltage and frequency to somewhere around 70V and 7000Hz. Each inverter will be different and are load dependent, meaning the voltage and frequency are different depending on how much EL Wire, Tape, Panels, etc are attached to the inverter? What's especially unique about this inverter in the way it operates is that it tends to work outside of our normal audible range. So this makes it ideal when using it in quiet environments where the noise of the inverter or EL material had undesirable results.
- **Can EL Inverters Customized?**
Yes, We offer custom EL Inverters for many different applications. If you have a project in mind, please feel free to contact us and we will be happy to help. We offer both custom Engineering and connecting services as well as custom EL shapes, sizes and colors. For any custom inquiries or bulk purchases, please contact us via phone or email.

For questions or concerns on this inverter, please contact Ellumiglow for further information.