https://www.ellumiglow.com
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SPEC SHEET: ELLUMIGLOW ULTRA-THIN 3.7V DC INVERTER

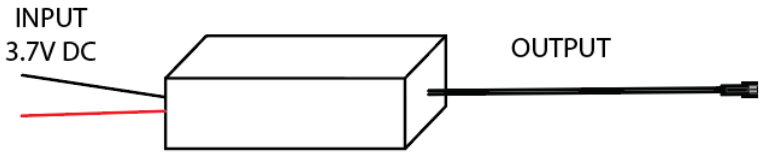
The Ellumiglow Ultra-Thin Inverter is a compact, efficient, and low-profile inverter designed to be hidden into tight spaces. The 3.7V DC input voltage allows this inverter to be directly connected to 3.7V DC sources, like Lithium Polymer batteries and other battery sources. This inverter module is intended 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 3M(~9.5ft), and EL Tape or Panels is 130sqcm (~20sqin). The maximum voltage and frequency rating for this inverter is 110V @ 2000Hz.

Size	SKU	Color	Voltage	Powers	Consumption	RATING
29 x 10 x 16mm	**NEL030**	WHITE	3.7V DC	25mm-3000mm EL Wire 32sqmm-1300sqmm EL Panels	<300mA	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.

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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 3.7V DC Input, and increasing the voltage and frequency to somewhere around 100V and 1000Hz. 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?

- **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.