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SPEC SHEET: 9V BATTERY PACK & INVERTER COMBO

The 9V Battery Pack & Inverter Combo is an integrated battery and inverter for many types of Electroluminescent devices, including EL Wire, EL Tape, EL Panels, VynEL™ Panels, and SewGlo™ Illuminated Thread. The variable blink speed and brightness adjustment wheels provide fine tuning adjustments and simple all-in-one configuration. This variable voltage and frequency inverter module are load dependent and will vary based on the size of load.

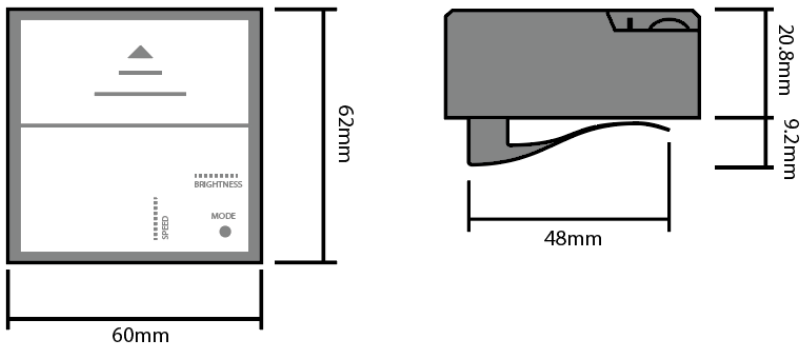
The minimum load for VynEL™ Panels is 0.25sqin (~1sqcm). The maximum load for VynEL™ Panels is 390sqcm (~60sqin), the EL Wire minimum is 1cm, the maximum is 1000cm (1-393in). The maximum output voltage and frequency rating for this inverter is 110V @ 2300Hz. The output has a 2-pin JST-SM style connector which is an industry standard Electroluminescent device connector. For custom connector options, please contact us.

This module is able to run on 9V Battery, or through a 9V transformer. If using the transformer, make sure to remove the battery prior to operating.

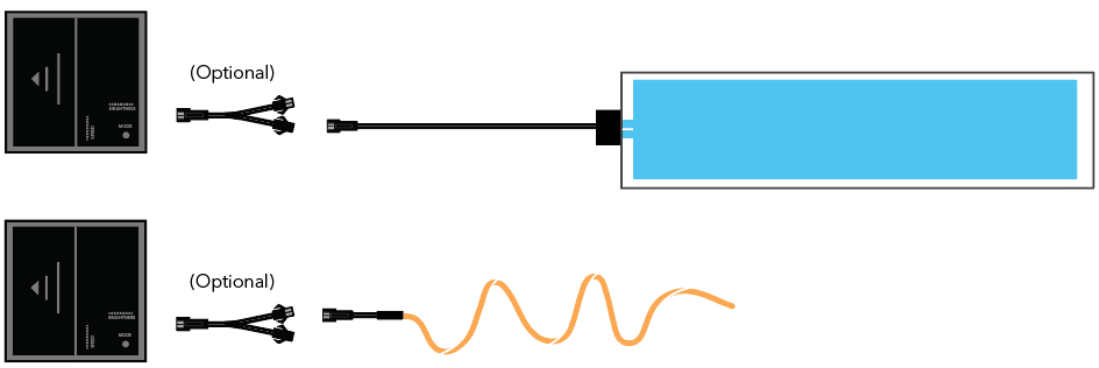
Size	SKU	MAX OUTPUT	INPUT VOLTAGE	MIN-MAX LOAD	CONSUMPTION	RATING
62 x 60 x 30mm 2.44 x 2.36 x 1.2"	**EOE201**	110V @ 2300Hz	9V DC	1cm-1000cm (~1-393in) EL Wire 1sqcm-260sqcm (~0.5-40sqin) EL Panels	<300mA	IP20

Parameter	Symbol	MIN	TYP.	MAX	UNIT
Operating Voltage (IN)	VDD	6V	9V	11.2	V
Operating Voltage (OUT)	VEL	70	90	110	V
Operating Freq	VFEL	0.8K	1.3K	2.2K	Hz
Storage Temp	STMP	-20	20	80	C
Operating Temp	OTMP	-20	20	60	C

STRUCTURAL DIAGRAM:



WIRING DIAGRAM:



SAFETY INFORMATION:

The inverter module should be handled with caution. NEVER touch the bare input or output wires when connected to power. Remove battery when not in use.

CERTIFICATIONS:

CE, RoHS

FAQ

- **Do all Electroluminescent Devices Need An Inverter?**
  Yes. All Electroluminescent material requires a specific voltage and frequency to operate. This typically uses a low voltage DC Input and raises the output voltage and frequency to somewhere around 100V @ 1kHz. The specific voltage and frequency excite the phosphor particles that are on an VynEL™ or EL Panel or surround EL Wire which creates the glow.
- **How Long Does The Battery Last?**
  This inverter is load dependent on operation, meaning the more surface area of illumination, the more power it consumes. Typical load with <80% lasts between 10-14 hours on an average battery.
- **Why Does The Inverter Make A Humming Noise?**
  This inverter is a jack of all trades. It has a massive range of operation, but it's also never fully in tune with the EL Devices it illuminates.
- **Will The Battery Drain If It Is Left In?**
  The button used on this inverter is an "always on" type button, so it will consume micro amps of power to allow for instantaneous on operation. When storing for longer periods, please remove the battery to avoid excess drain on the battery.

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