

E2202

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**Endicott Research Group, Inc.**

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## Specifications and Applications Information

02/28/00

Preliminary

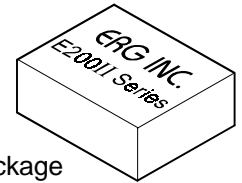
The E2202 (E200II Series) dc to ac inverter is specifically designed to power a single CCFT load generating 1.9 mA into a 437 Volt load from a nominal +12 Volt DC source.

The E2202's small size, encapsulated package and low input power requirements, makes it the ideal power source for battery applications where small size, high efficiency and reliability are critical.

This inverter is designed to satisfy the most common cold-cathode lighting requirements for a single CCFT display. Custom units, providing different inputs, outputs or package refinements are available.

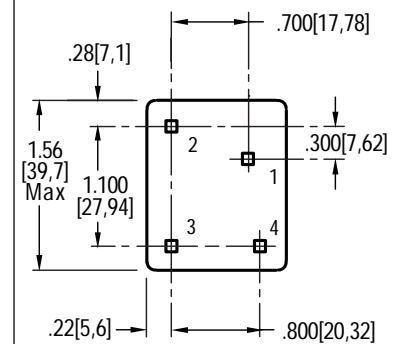
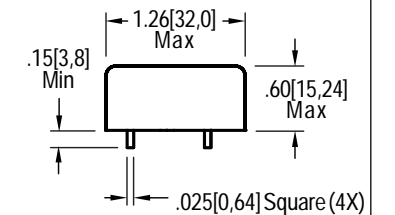
E2202

Single Tube  
DC to AC Inverter

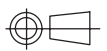


E200II Package

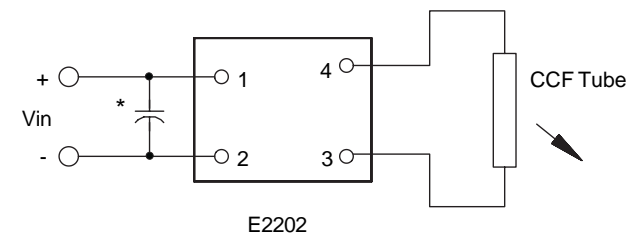
### Package Configuration



1. Vin(+)
2. Vin(-)
3. Vout(AC)
4. Vout(AC)



### Connection Diagram



\* Input bypass capacitor may be required (10uf - 100uf)



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Made in U.S.A.

**Absolute Maximum Ratings**

Rating	Symbol	Value	Units
Input Voltage Range	V <sub>in</sub>	-0.3 to +13.2	Vdc
Operating Temperature	T <sub>o</sub>	0 to +70	°C
Storage Temperature	T <sub>stg</sub>	-40 to +85	°C

**Recommended Operating Conditions**

Rating	Symbol	Value	Units
Input Voltage	V <sub>in</sub>	+6.0 to 13.2	Vdc

**Electrical Characteristics**

Unless otherwise noted V<sub>in</sub> = 12.00 Volts dc and T<sub>a</sub> = 25 °C

Characteristic	Symbol	Min	Typ	Max	Units
Input Current	I <sub>in</sub>	-	.077	.087	Adc
Operating Frequency	F <sub>o</sub>	25	30	35	KHz
Minimum Output Voltage	V <sub>out</sub> (min)	1000	-	-	Vrms
Efficiency	η	-	90	-	%
Output Current	I <sub>out</sub>	-	1.9	-	marms
Output Voltage (When Powering a 230K load display)	V <sub>out</sub>	-	437	-	Vrms

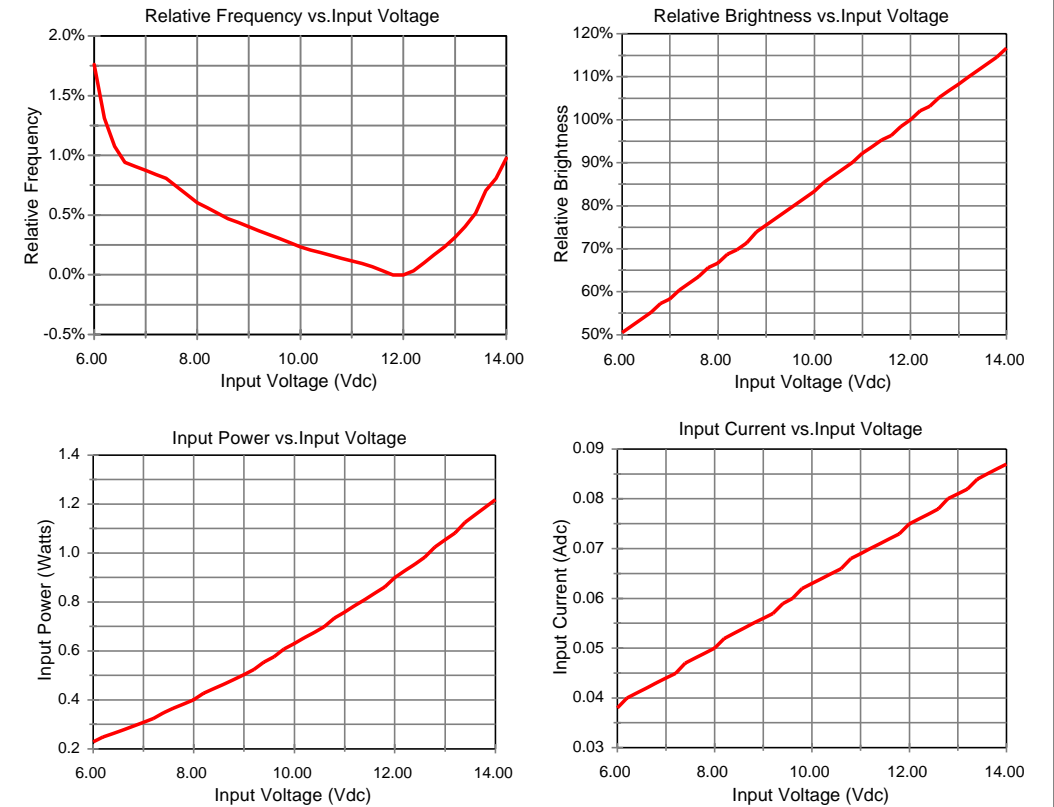
After tube has be allowed to warm-up for 5 minutes

Specifications subject to change without notice.



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**Typical Performance Curves**



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