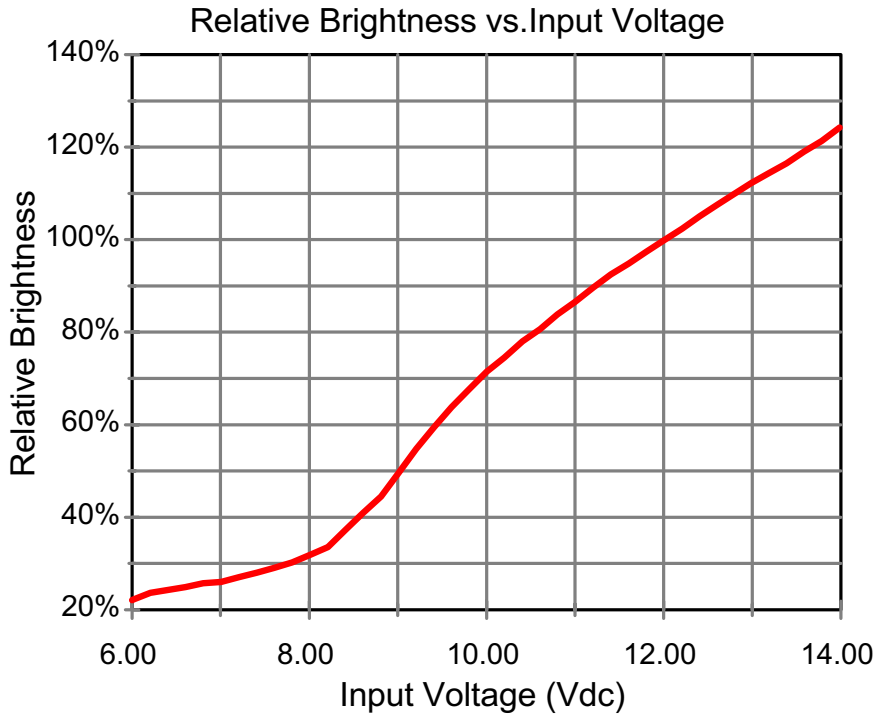


E2323



Endicott Research Group, Inc.
2601 Wayne St., Endicott NY 13760
607-754-9187

Made in U.S.A.



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2601 Wayne St., Endicott NY 13760
607-754-9187 Fax 607-754-9255
<http://www.ergpower.com>

Specifications and Applications Information

11/09/99

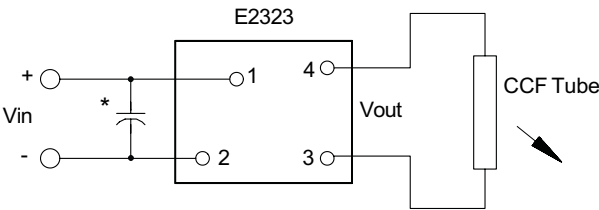
Preliminary

The E2323 (E200II Series) dc to ac inverter is specifically designed to power the Sharp LQ057Q3DC02 LCD display to a moderate brightness level from a +12 volt dc source.

The E2323's small size, encapsulated package makes it the ideal power source for applications where small size, high efficiency and reliability are critical.

This inverter is designed to satisfy the most common cold-cathode lighting requirements for the Sharp LQ057Q3DC02 display. Custom units, providing different inputs, outputs or package refinements are available.

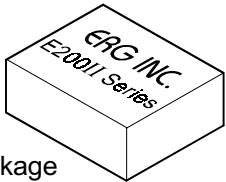
Connection Diagram



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

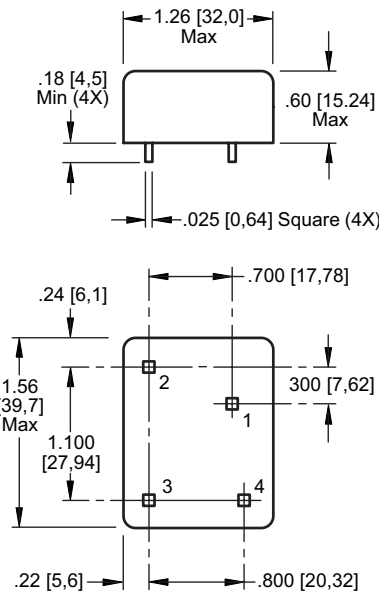
E2323

Single Tube DC to AC Inverter



E200II Package

Package Configuration



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



Absolute Maximum Ratings

Rating	Symbol	Value	Units
Input Voltage Range	V_{in}	-0.3 to +13.2	Vdc
Operating Temperature	T_o	0 to +70	°C
Storage Temperature	T_{stg}	-40 to +85	°C

Recommended Operating Conditions

Rating	Symbol	Value	Units
Input Voltage	V_{in}	+6.0 to 13.2	Vdc

Electrical Characteristics

Unless otherwise noted V_{in} = 12.00 Volts dc and T_a = 25 °C

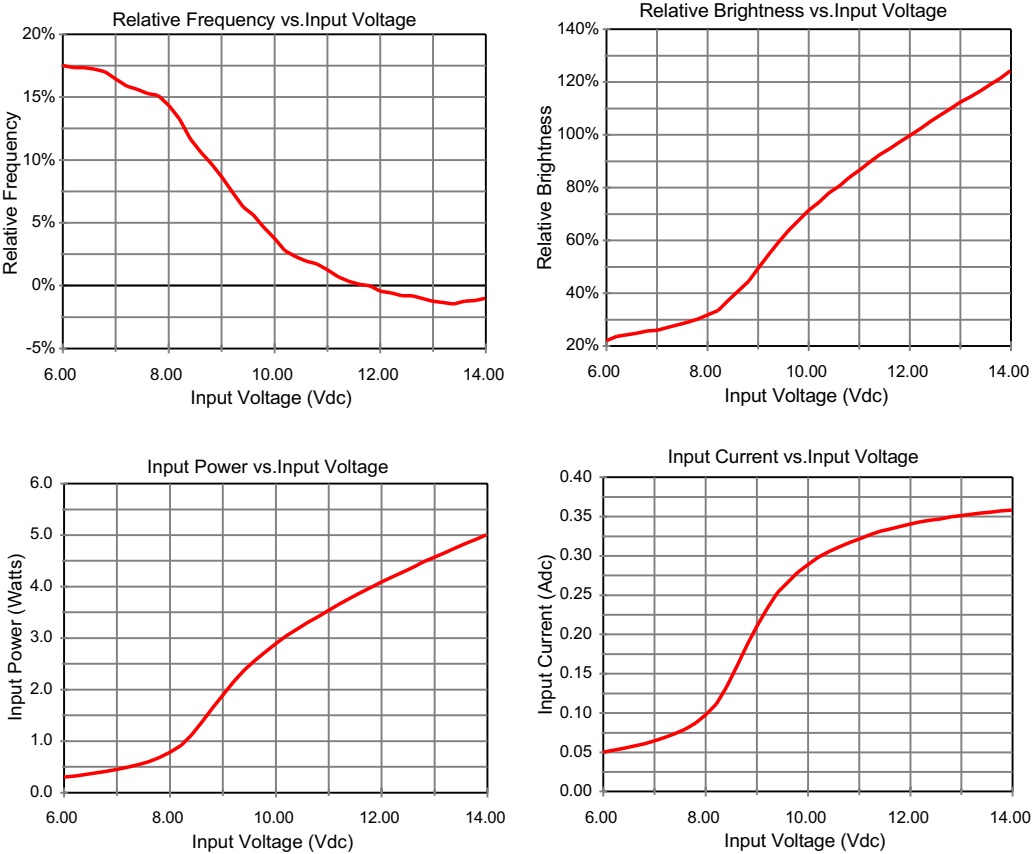
Characteristic	Symbol	Min	Typ	Max	Units
Input Current	I_{in}	-	0.33	0.38	Adc
Operating Frequency	F_o	29	34	39	KHz
Minimum Output Voltage	V_{out} (min)	1470	-	-	V_{rms}
Efficiency	η	-	87	-	%
Output Current	I_{out}	-	5	-	marms
Output Voltage (When Powering a Sharp LQ057Q3DC02 display)	V_{out}	-	690	-	V_{rms}

After tube has been allowed to warm-up for 5 minutes. Specifications subject to change without notice.



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Typical Performance Curves



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