

E1950



Endicott Research Group, Inc.
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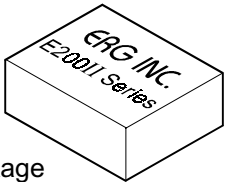
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Specifications and Applications Information

08/04/00

Preliminary

Two Tube
DC to AC Inverter



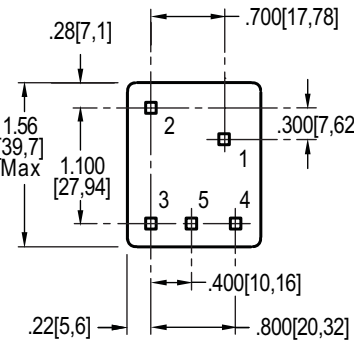
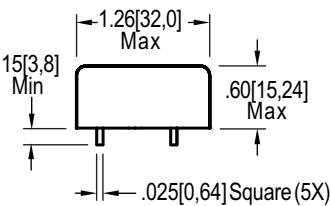
E200 Package

The E1950 (E200II Series) dc to ac inverter is specifically designed to power the Sharp LQ10D421 LCD display to a moderate brightness level from a +12 volt dc source.

The E1950's small size and 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 LQ10D421 LCD display. Custom units, providing different inputs, outputs or package refinements are available.

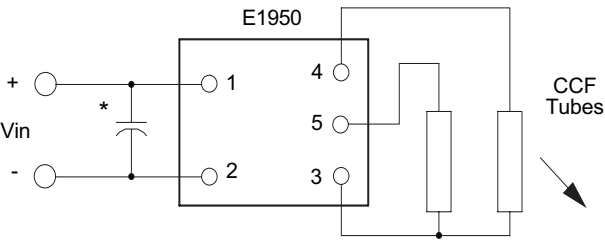
Package Configuration



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



Connection Diagram



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



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Made in U.S.A.

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Absolute Maximum Ratings

Rating	Symbol	Value	Units
Input Voltage Range	Vin	-0.3 to +13.5	Vdc
Operating Temperature	To	0 to +70	°C
Storage Temperature	Tstg	-40 to +85	°C

Recommended Operating Conditions

Rating	Symbol	Value	Units
Input Voltage	Vin	+6 to 13.2	Vdc

Electrical Characteristics

Unless otherwise noted Vin = 12.00 Volts dc and Ta = 25 °C

Characteristic	Symbol	Min	Typ	Max	Units
Input Current	Iin	-	0.57	0.64	Adc
Operating Frequency	Fo	24	29	34	KHz
Minimum Output Voltage	Vout (min)	1220	-	-	Vrms
Efficiency	η	-	88	-	%
Output Current per tube	Iout	-	6.0	-	marms
Output Voltage (When Powering each tube in the Sharp LQ10D421 display)	Vout	-	500	-	Vrms

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

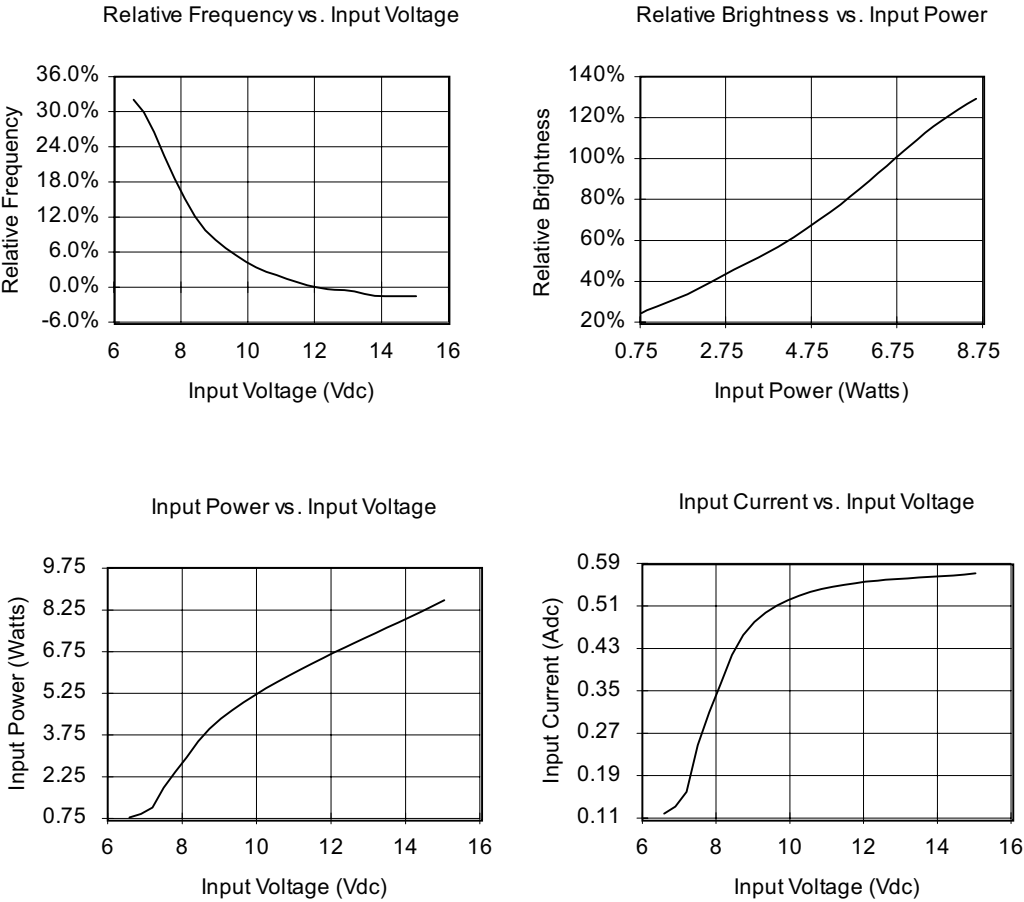
Specifications subject to change without notice



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Typical Performance Curves



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