E1944

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E1944

Specifications and Applications Information

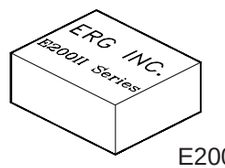
11/07/01 Preliminary

Single Tube DC to AC Inverter

The E1944 (E200II Series) dc to ac inverter is specifically designed to power the Hitachi LMG9520RPCC-A LCD display to a lower than nominal brightness level from a +12 volt dc source.

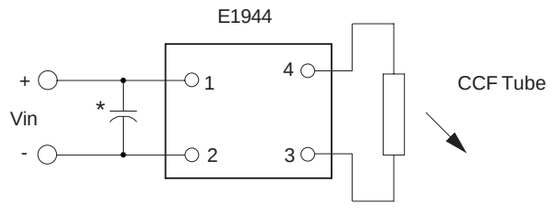
The E1944's small size, encapsulated package and low input power requirements (typically 1.9 watts) makes it the ideal power source for battery applications where small size, high efficiency and reliability are critical.

This standard inverter is designed to satisfy the most common cold-cathode lighting requirements for the Hitachi LMG9520RPCC-A display. Custom units, providing different inputs, outputs or package refinements are available.



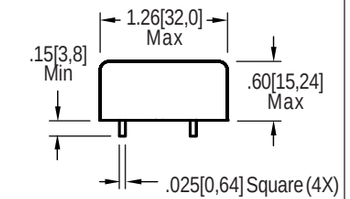
E200 Package

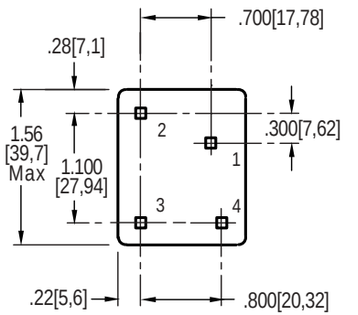
Connection Diagram



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

Package Configuration





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

Absolute Maximum Ratings

Rating	Symbol	Value	Units
Input Voltage Range	Vin	-0.3 to +13.2	Vdc
Operating Temperature	To	-0 to +70	°C
Storage Temperature	Tstg	-40 to +85	°C

Absolute Maximum Ratings

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	-	.16	.22	Adc
Operating Frequency	Fo	30	35	40	KHz
Minimum Output Voltage	Vout (min)	1000	-	-	Vrms
Efficiency	-	-	85	-	%
Output Current	Iout	-	5	-	marms
Output Voltage (When powering a load simulating the referenced display)	Vout	-	325	-	Vrms

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

Specifications subject to change without notice.

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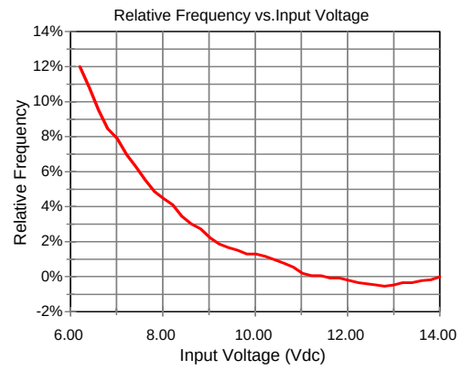
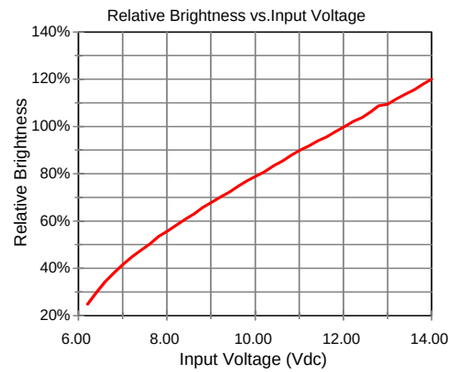
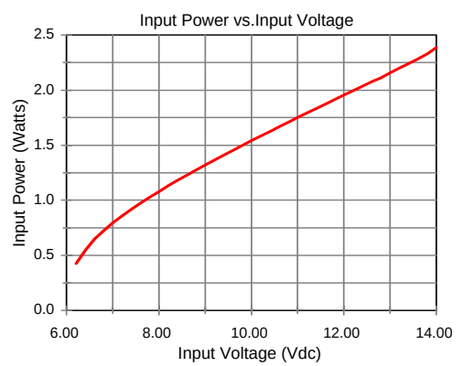
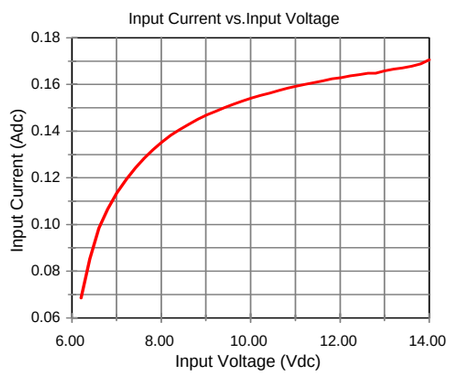
Typical Performance Curves









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