E1674

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E1674

Specifications and Applications Information

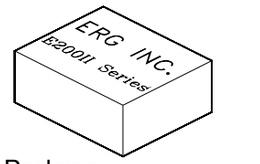
2/1/01 Preliminary

Single Tube DC to AC Inverter

The E1674 (E200II Series) dc to ac inverter is specifically designed to power the Sharp LM64C35P or LM64C350 LCD VGA displays to a moderate brightness level from a +5 volt dc source.

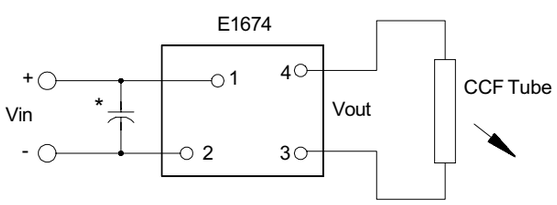
The E1674's small size, encapsulated package and low input power requirements (typically 3 watts) makes it the ideal power source for battery applications where small size, high efficiency and reliability are critical.

This standard inverter is designed to satisfy the most common cold-cathode lighting requirements for the LM64C35P or LM64C350 displays. Custom units, providing different inputs, outputs or package refinements are available.



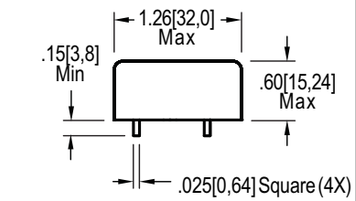
E200II Package

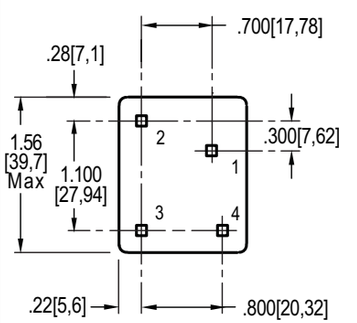
Connection Diagram



* 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 +6	Vdc
Operating Temperature	To	0 to +70	℃
Storage Temperature	Tstg	-40 to +85	℃

Recommended Operating Conditions

Rating	Symbol	Value	Units
Input Voltage	Vin	+2.5 to 5.5	Vdc

Electrical Characteristics

Unless otherwise noted Vin = 5.00 Volts dc and Ta = 25°C

Characteristic	Symbol	Min	Typ	Max	Units
Input Current	Iin	-	0.6	0.67	Adc
Operating Frequency	Fo	25	30	35	KHz
Minimum Output Voltage	Vout (min)	1100	-	-	Vrms
Efficiency	η	-	88		%
Output Current	Iout	-	5.5	-	marms
Output Voltage (When Powering a Sharp LM64C35P display)	Vout	-	480	-	Vrms

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

Specifications subject to change without notice

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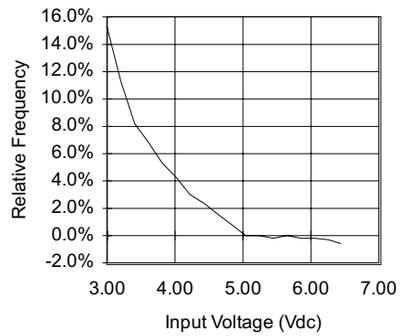
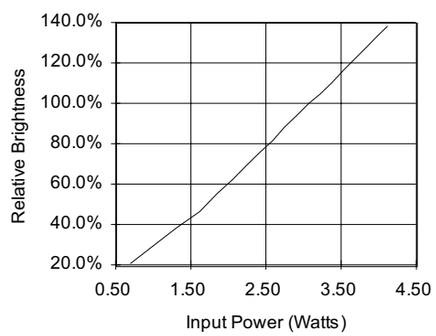
Typical Performance Curves

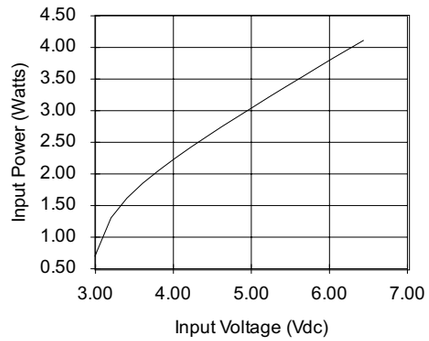
Relative Frequency vs. Input Voltage



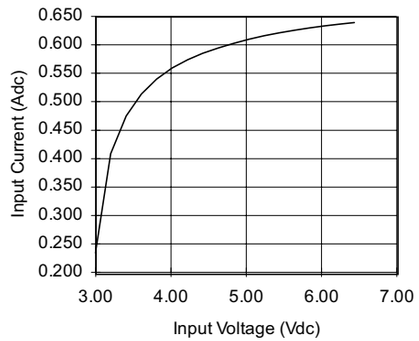
Relative Brightness vs. Input Power



Input Power vs. Input Voltage



Input Current vs. Input Voltage



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