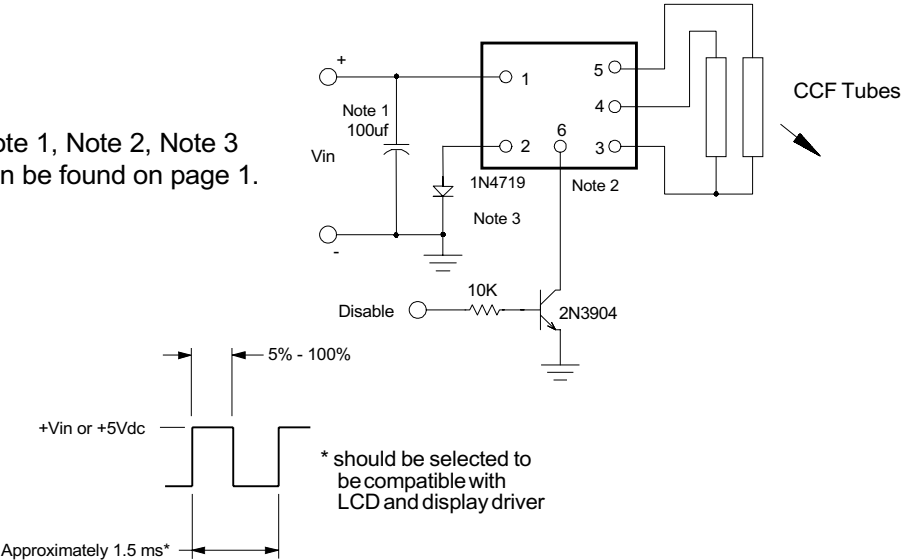
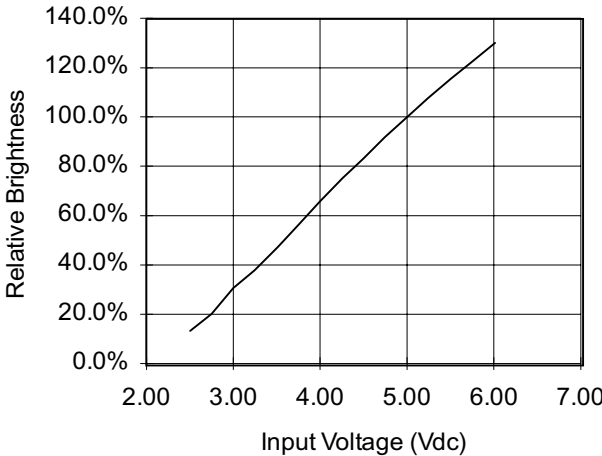


E1957E

Note 1, Note 2, Note 3
can be found on page 1.



Relative Brightness vs. Input Voltage



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

Made in U.S.A.



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

**Specifications and
Applications Information**

12/23/99

The E1957E (E200II Series) dc to ac inverter is specifically designed to power dual Sharp LQ64D341 LCD display backlights to a moderate brightness from a +5 V dc source.

The E1957E's small size and encapsulated package makes it an ideal power source for applications where size, high efficiency and reliability are critical.

This standard inverter is designed to satisfy the most common cold cathode lighting requirements for dual Sharp LQ64D341 LCD displays. Custom units, providing different inputs, outputs, or package refinements are available.

Refer to the connection diagram below. The following notes should be observed.

Note 1: An input bypass capacitor may be required (25uf - 220uf), a low ESR capacitor should be specified.

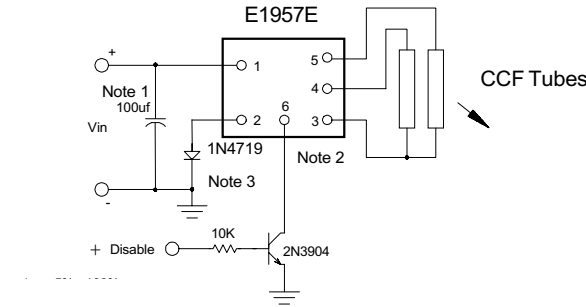
Note 2: When Pin 6 is pulled low, the CCF Tubes will turn off.

Note 3: Diode 1N4719 or an equivalent will be required to insure complete turn off.

Note 4: Pulse Width Modulation for brightness control information is available on Page 4.

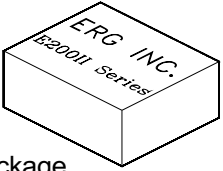
Connection Diagram

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



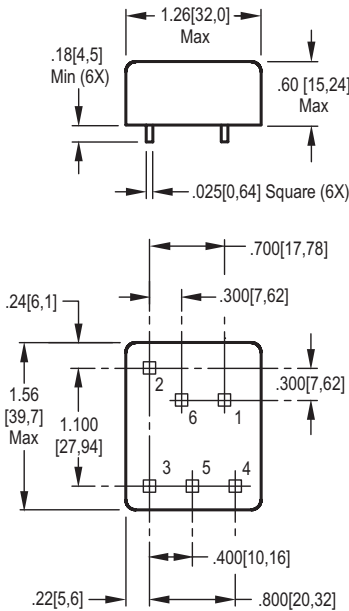
E1957E

**Two Tube
DC to AC Inverter**



E200 Package

Package Configuration



1. Vin(+)
2. Vin(-)
3. Vout(common)
4. Vout(AC) tube 1
5. Vout(AC) tube 2
6. Control

Absolute Maximum Ratings

Rating	Symbol	Value	Units
Input Voltage Range	V_{in}	-0.3 to +6	Vdc
Operating Temperature *	T_o	0 to +70	°C
Storage Temperature	T_{stg}	-40 to +85	°C

* Case temperature or temperature of air in immediate vicinity of unit

Recommended Operating Conditions

Rating	Symbol	Value	Units
Input Voltage	V_{in}	+3 to 5.5	Vdc

Electrical Characteristics **

Unless otherwise noted V_{in} = 5.00 Volts dc and T_a = 25 °C

Characteristic	Symbol	Min	Typ	Max	Units
Input Current	I_{in}	-	.91	.97	Adc
Operating Frequency	F_o	29	34	38	KHz
Minimum Output Voltage	V_{out} (min)	1200	-	-	V_{rms}
Efficiency	η	-	72	-	%
Output Current / Tube	I_{out}	-	5	-	marms
Output Voltage (when Powering a Sharp LQ64D341display)	V_{out}	-	330	-	V_{rms}

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

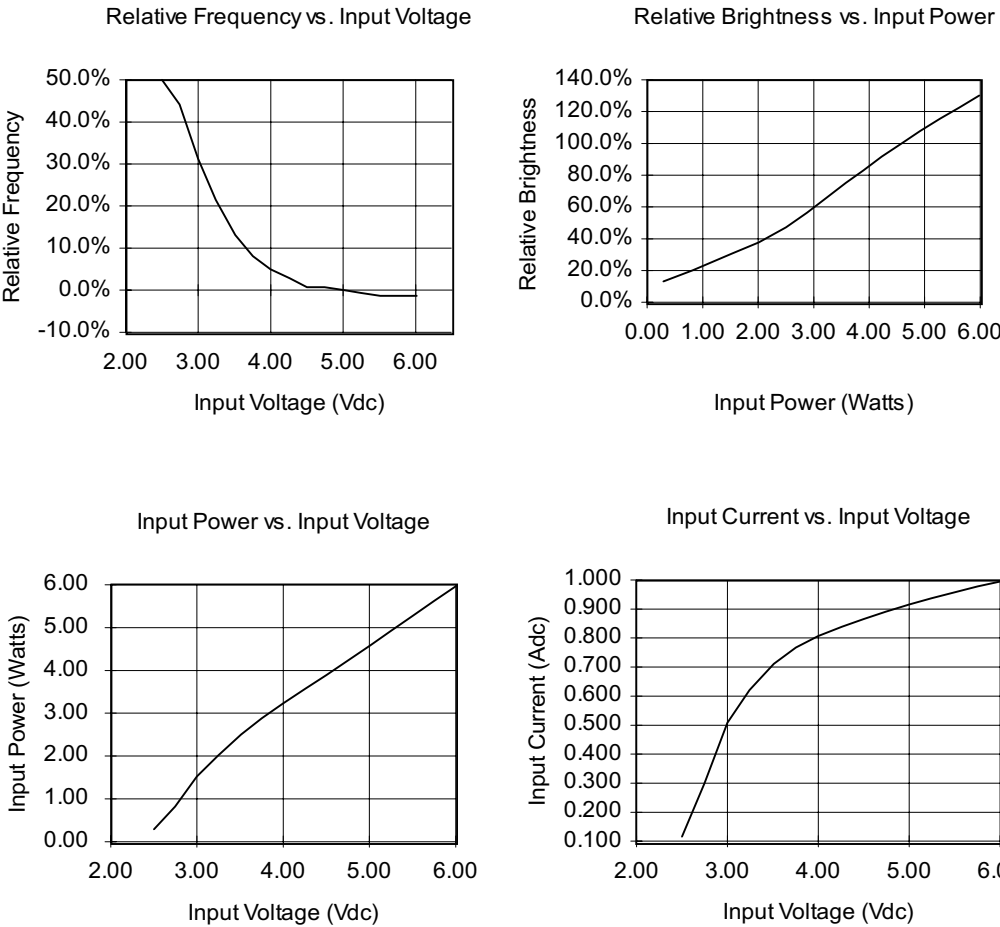
Specifications subject to change without notice

** Includes External Diode



Endicott Research Group, Inc.

Typical Performance Curves



Endicott Research Group, Inc.