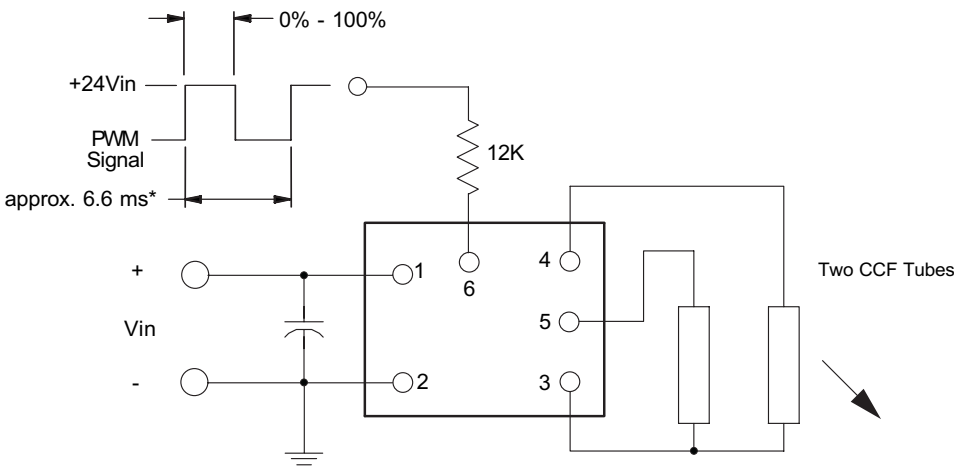


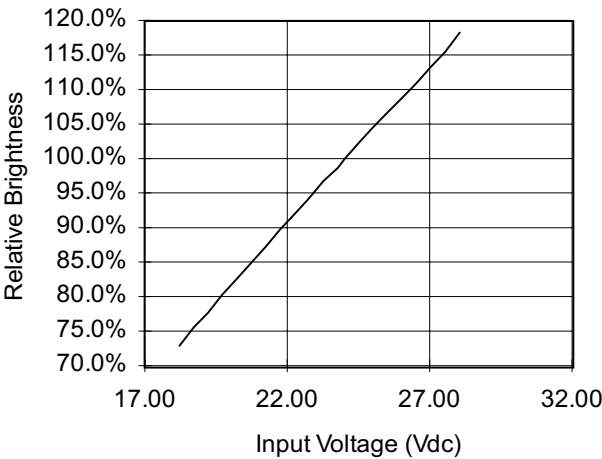
E2077C

E2077C Inverter with PWM Dimming/Disable



* should be selected to be compatible with LCD and display driver

Relative Brightness vs. Input Voltage



Endicott Research Group, Inc.
2601 Wayne St., Endicott NY 13760
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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

7/12/99

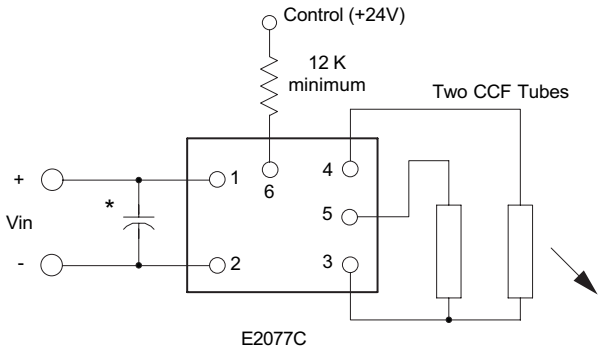
Preliminary

The ERG E2077C (E200II Series) dc to ac inverter is specifically designed to power the Sharp LQ64D341 LCD display module to a nominal brightness level from a +24 volt dc source.

The E2077C'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 LQ64D341 display where a PWM dimming control option is desired. Custom units, providing different inputs, outputs or package refinements are available.

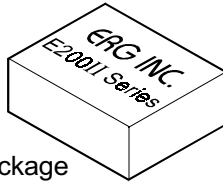
Connection Diagram



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

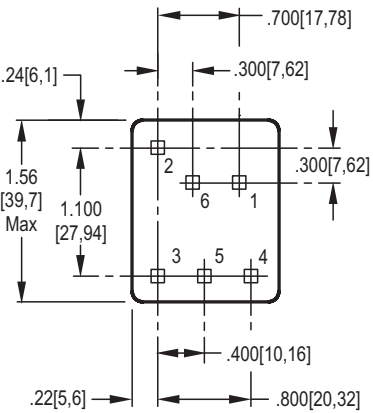
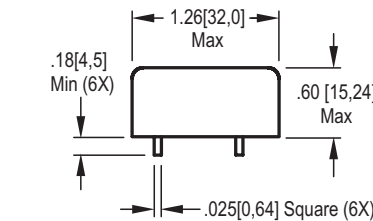
E2077C

E2077C Two Tube DC to AC Inverter



E200II Package

Package Configuration



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

E2077C

Absolute Maximum Ratings

Rating	Symbol	Value	Units
Input Voltage Range	Vin	-0.3 to +28	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	+18.0 to 26.4	Vdc

Electrical Characteristics

Unless otherwise noted Vin = 24.00 Volts dc and Ta = 25 °C

Characteristic	Symbol	Min	Typ	Max	Units
Input Current	Iin	-	0.200	0.225	Adc
Operating Frequency	Fo	27	32	37	KHz
Minimum Output Voltage	Vout (min)	1200	-	-	Vrms
Efficiency	η	-	85	-	%
Output Current (Per Tube)	Iout	-	6.0	-	marms
Output Voltage ** (per tube when Powering the Sharp LQ64D341 Display)	Vout	-	340	-	Vrms

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

** Measured, not guaranteed.
Specifications subject to change without notice.

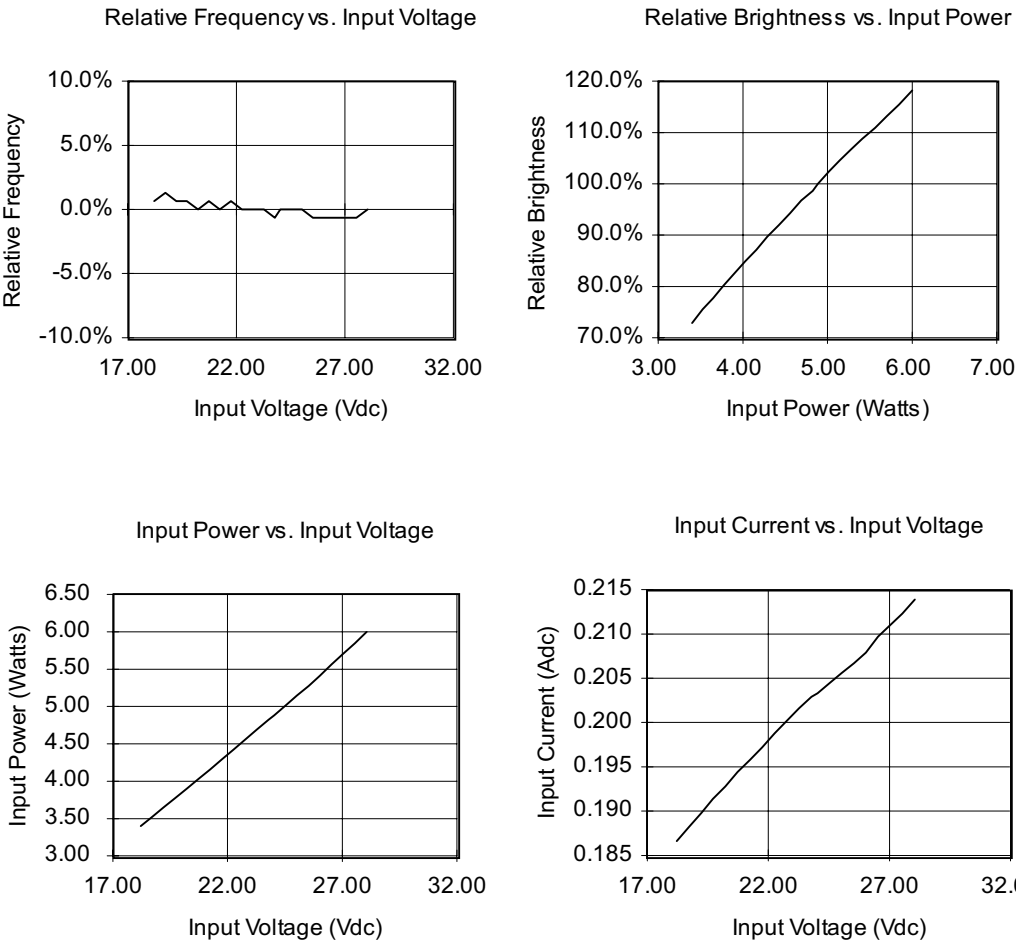


Endicott Research Group, Inc.

Made in USA

E2077C

Typical Performance Curves



Endicott Research Group, Inc.