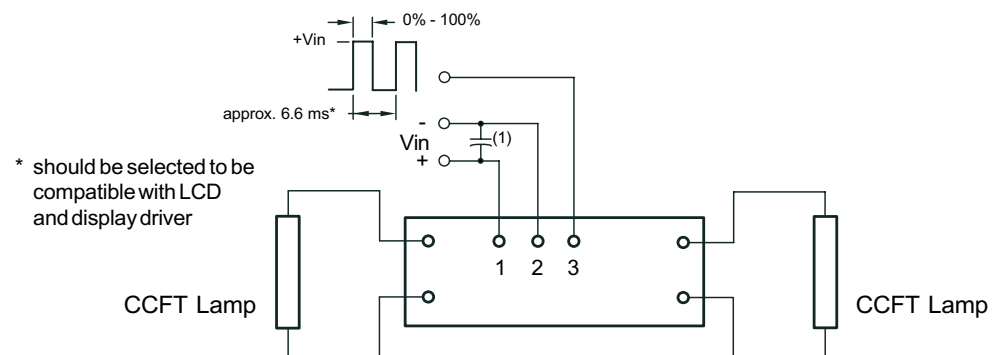


K1988

Dimming Option

(valid when the "C" jumper is removed)



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

Pulse-Width Modulation Controlled

* Note 1 - Input by-pass capacitor (25uf - 100uf) may be required to reduce reflected ripple.



Endicott Research Group, Inc.

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<http://www.ergpower.com>

Specifications and Applications Information

5/12/99

Preliminary

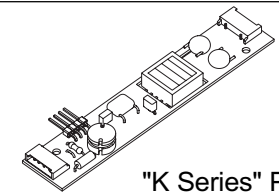
The ERG K1988 (*8m Class*) low profile dc to ac inverter is specifically designed to power the Sharp LQ64D341 LCD display module to a high brightness level from a +5 volt dc source.

This low profile inverter features:

- ✓ Less Than 8 mm in Height
- ✓ LCD Module Specific
- ✓ Display Compatible Output Connector
- ✓ Firm Specifications
- ✓ Application Information
- ✓ Made in U.S.A.
- ✓ Factory Support
- ✓ Custom Input and Output Voltages
- ✓ Flexible System Interface
- ✓ Notebook Display Head Compatible

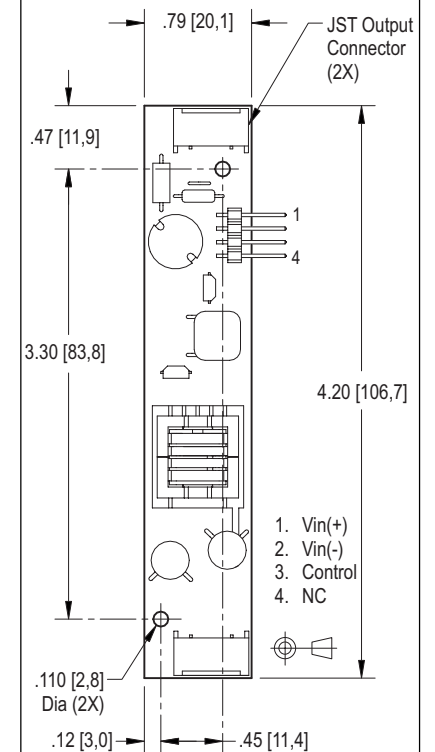
K1988

8m Class
2 Tube DC to AC Inverter



"K Series" Package

Package Configuration



Absolute Maximum Ratings

Rating	Symbol	Value	Units
Input Voltage Range	Vin	-0.3 to +6	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	+3.5 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	-	1.13	1.24	Adc
Operating Frequency	Fo	37	42	47	KHz
Minimum Output Voltage	Vout (min)	1200	-	-	Vrms
Inverter Efficiency	η	-	72		%
Tube Operating Current (per tube)	Io	-	6.2	-	marms
Tube Sustaining Voltage ** (per tube in the Sharp LQ64D341 Display)	Vs	-	335	-	Vrms

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

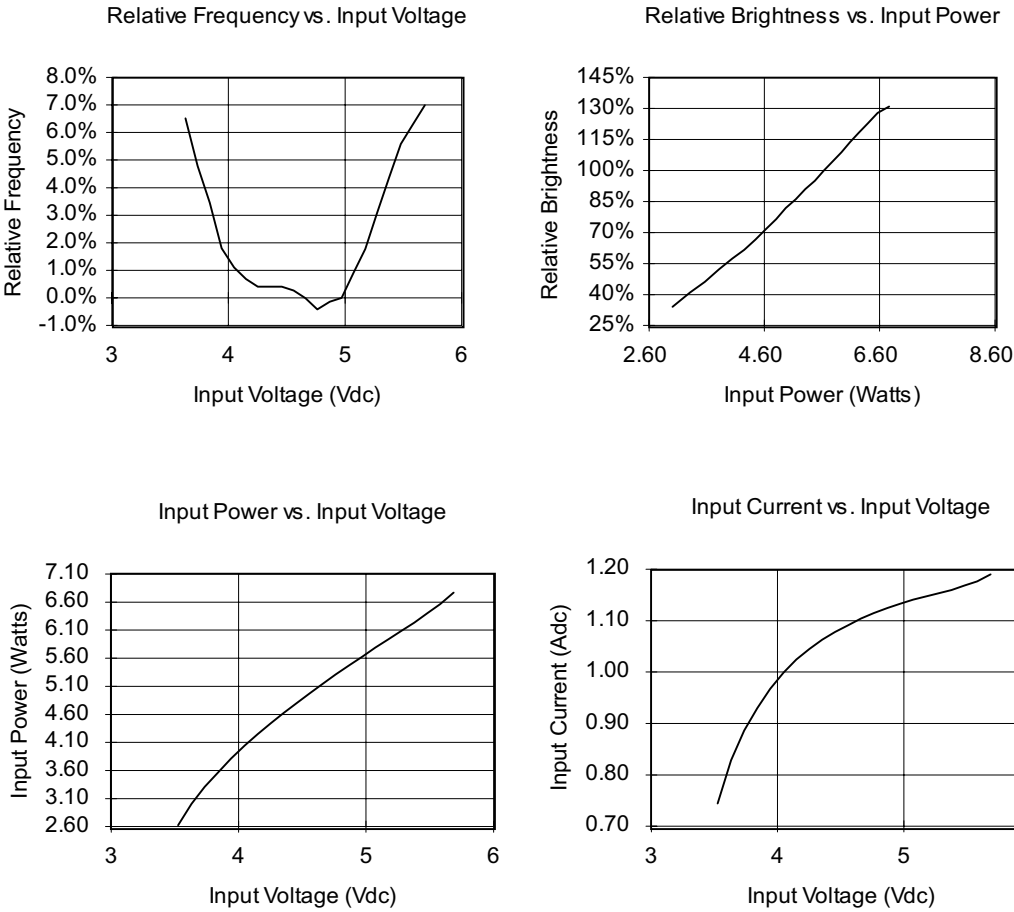
** Measured, not guaranteed.
Specifications subject to change without notice



Endicott Research Group, Inc.

Made in USA

Typical Performance Curves



Endicott Research Group, Inc.