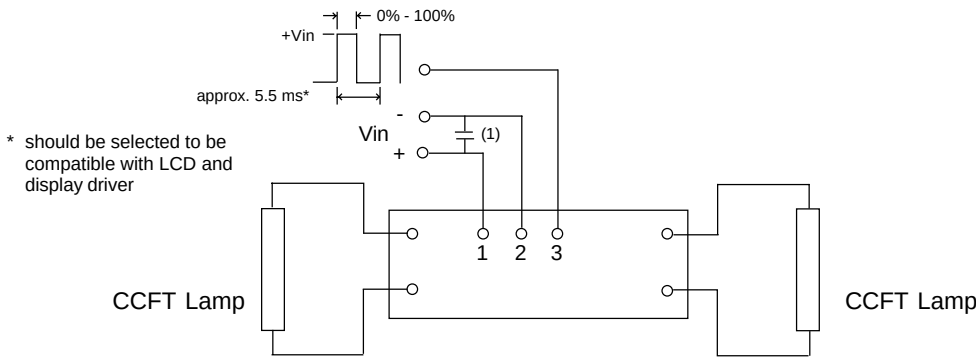


K1949

Dimming Option

(valid when the "C" jumper is removed)



Pulse-Width Modulation Controlled

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

K1949



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<http://www.ergpower.com>

Specifications and Applications Information

2/7/97

Preliminary

The ERG K1949 (*8m Class*) low profile dc to ac inverter is specifically designed to power the Sharp LQ12S31 LCD display module to a moderate brightness level from a +12 volt dc source.

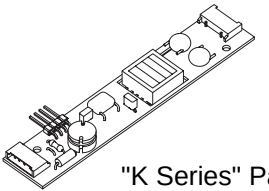
This low profile inverter features:

- ✓ Less Than 8 mm in Height
- ✓ LCD Module Specific
- ✓ Display Compatible Output Connector
- ✓ High Efficiency (Over 90%)
- ✓ Firm Specifications
- ✓ Application Information
- ✓ Made in U.S.A.
- ✓ Factory Support
- ✓ Custom Input and Output Voltages
- ✓ Flexible System Interface
- ✓ Notebook Display Head Compatible

K1949

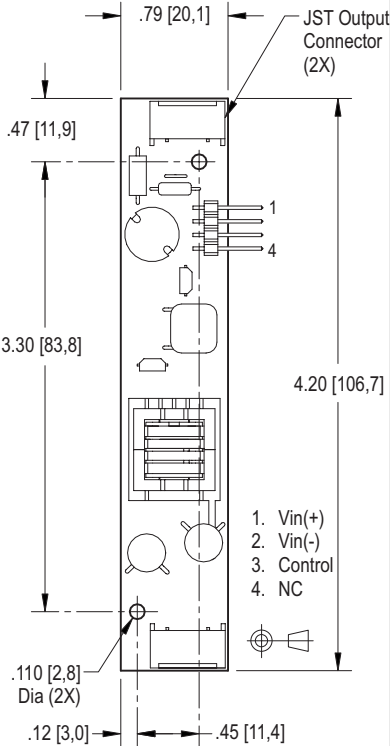
8m Class

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 +15	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	+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	-	0.55	0.61	Adc
Operating Frequency	Fo	47	52	57	KHz
Minimum Output Voltage	Vout (min)	1200	-	-	Vrms
Efficiency	η	-	92		%
Output Current (per tube)	Iout	-	5.5	-	marms
Output Voltage (per tube in the Sharp LQ12S31 Display)	Vout	-	550	-	Vrms

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

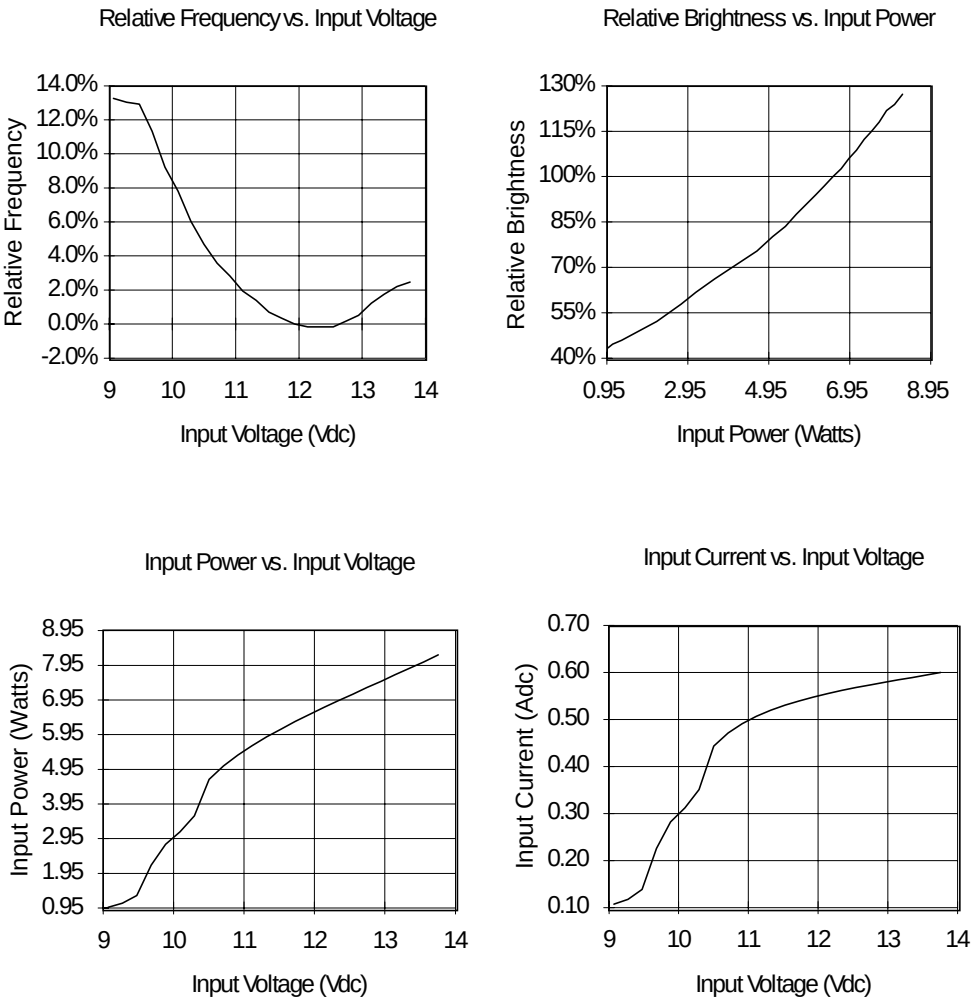
Specifications subject to change without notice



Endicott Research Group, Inc.

Made in USA

Typical Performance Curves



Endicott Research Group, Inc.