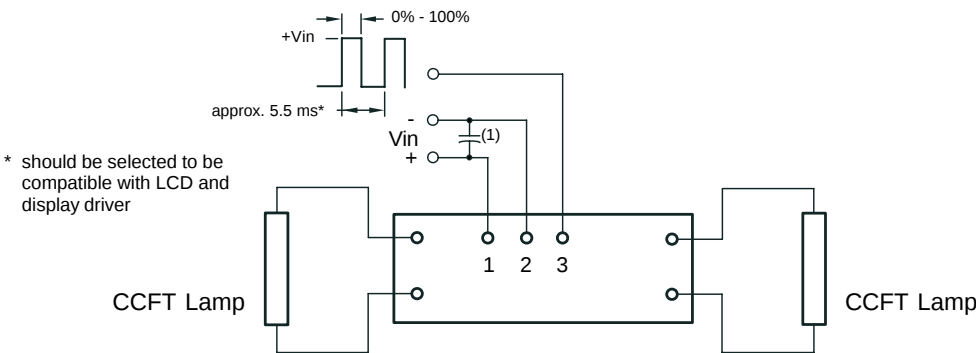


K1968

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.



Endicott Research Group, Inc.

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<http://www.ergpower.com>

Specifications and Applications Information

3/4/97

Preliminary

The ERG K1968 **(8m Class)** low profile dc to ac inverter is specifically designed to power the Sharp LM80C31 LCD display module to a moderate brightness level from a +12 volt dc source.

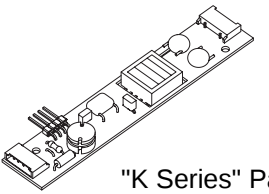
This low profile inverter features:

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

K1968

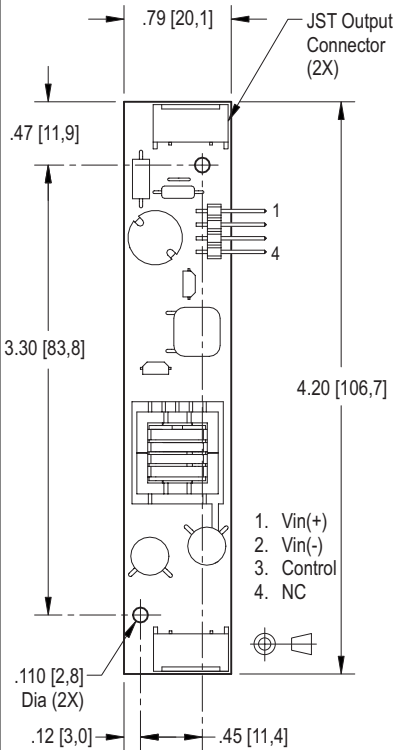
8m Class

2 Tube DC to AC Inverter



"K Series" Package

Package Configuration



K1968

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	-	0.60	0.66	Adc
Operating Frequency	Fo	49	55	61	KHz
Minimum Output Voltage	Vout (min)	1200	-	-	Vrms
Efficiency	η	-	92		%
Output Current (per tube)	Iout	-	6.1	-	marms
Output Voltage (per tube in the Sharp LM80C31 Display)	Vout	-	540	-	Vrms

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

Specifications subject to change without notice

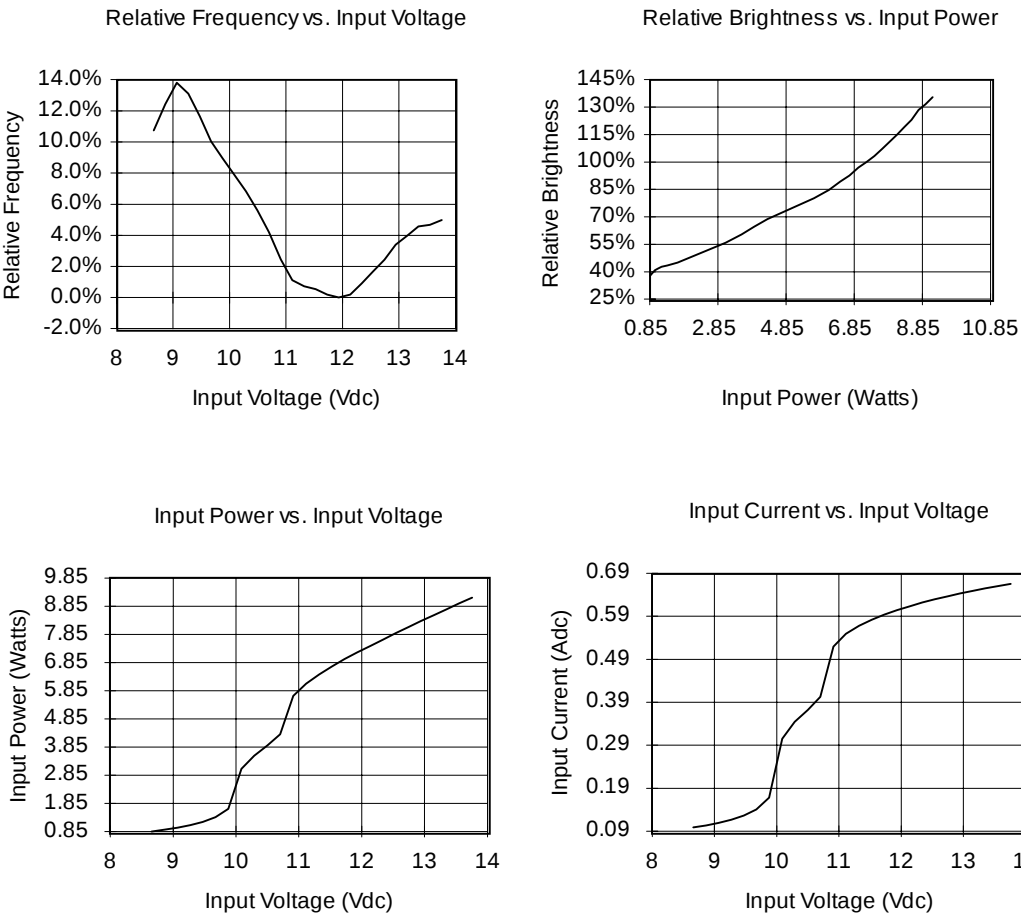


Endicott Research Group, Inc.

Made in USA

K1968

Typical Performance Curves



Endicott Research Group, Inc.