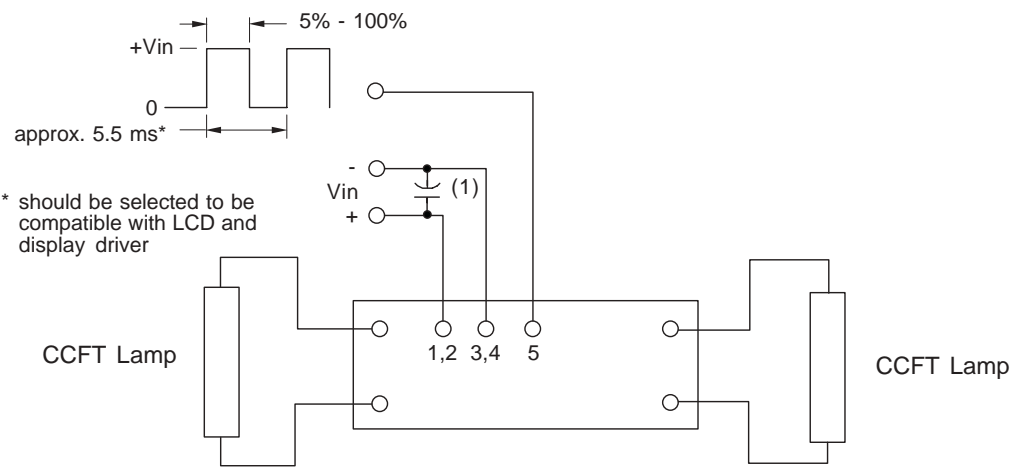


K2766

**Dimming Option**  
(Valid with the "C" jumper 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>

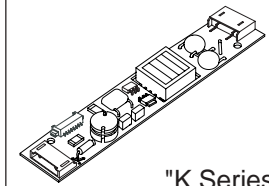
K2766

**Specifications and Applications Information**

09/06/02

Preliminary

**8m Class**  
2 Tube DC to AC Inverter

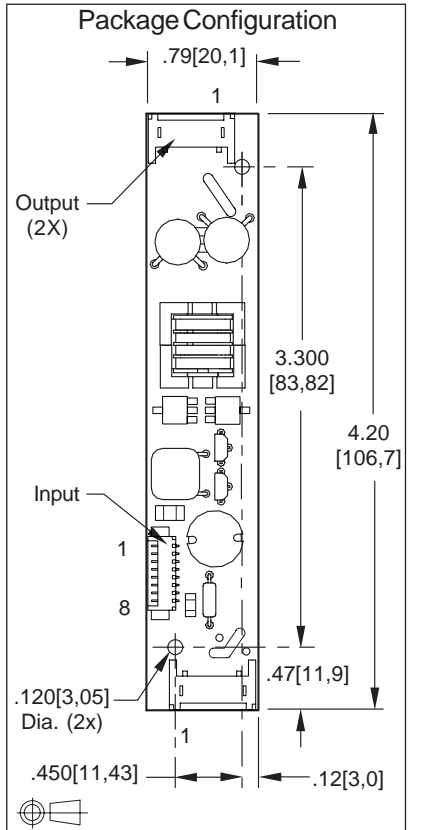


"K Series" Package

The ERG K2766 (**8m Class**) low profile dc to ac inverter is specifically designed to power the NEC NL6448BC26-01 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
- ✓ Designed, Manufactured and Supported in the USA
- ✓ Custom Input and Output Voltages
- ✓ Flexible System Interface
- ✓ Notebook Display Head Compatible



**Pin Descriptions**

Input Connector		Output Connectors	
Molex 532-61-0890		JST SM02(8.0)B-BHS-1-TB	
J1-1	Vin(+)	J2-1 ACout	J3-1 ACout
J1-2	Vin(+)	J2-2 N/C	J3-2 N/C
J1-3	GND	J2-3 ACout	J3-3 ACout
J1-4	GND		
J1-5	Control		
J1-6-8	N/C		

# K2766

## Absolute Maximum Ratings

Rating	Symbol	Value	Units
Input Voltage Range	V <sub>in</sub>	-0.3 to +13.2	V <sub>dc</sub>
Operating Temperature	T <sub>o</sub>	-0 to +70	°C
Storage Temperature	T <sub>stg</sub>	-40 to +85	°C

## Recommended Operating Conditions

Rating	Symbol	Value	Units
Input Voltage	V <sub>in</sub>	+6 to 13.2	V <sub>dc</sub>

## Electrical Characteristics

Unless otherwise noted V<sub>in</sub> = 12.00 Volts dc and T<sub>a</sub> = 25°C

Characteristic	Symbol	Min	Typ	Max	Units
Input Current	I <sub>in</sub>	-	.45	.52	A <sub>dc</sub>
Operating Frequency	F <sub>o</sub>	37	42	47	KHz
Minimum Output Voltage	V <sub>out</sub> (min)	1200	-	-	V <sub>rms</sub>
Efficiency	h	-	82	-	%
Output Current (per tube)	I <sub>out</sub>	-	5	-	marms
Output Voltage (When powering a load simulating the referenced display)	V <sub>out</sub>	-	440	-	V <sub>rms</sub>
Pin5 Input Current Requirement	-	-	5.5	-	ma <sub>dc</sub>

After tube has been allowed to warm-up for 5 minutes. Specifications subject to change without notice. External Disable Circuit shown on page 3.

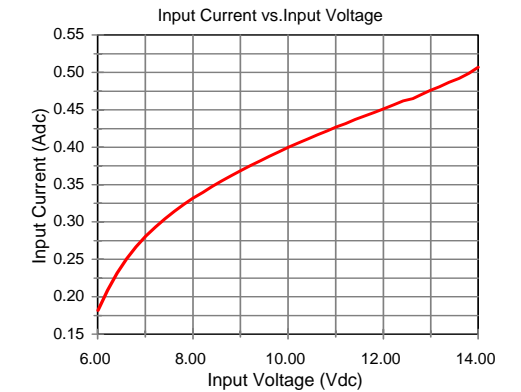
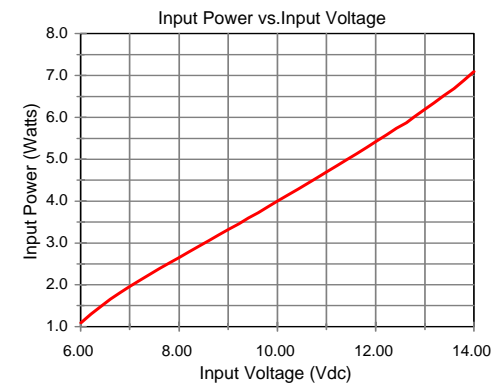
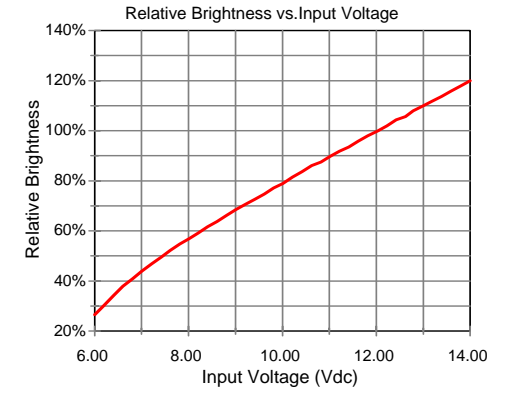
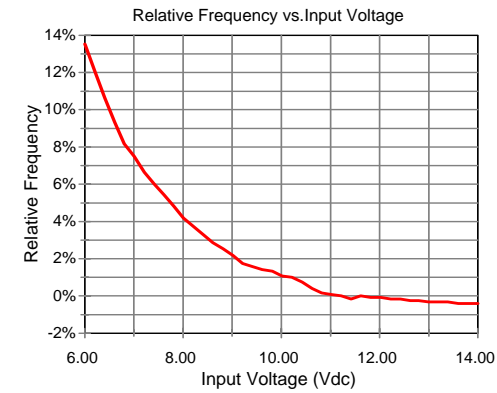


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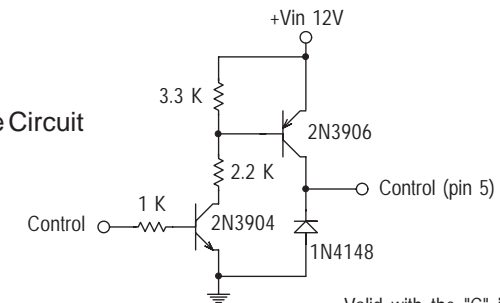
Made in USA

## Typical Performance Curves

# K2766



### Disable Circuit



Valid with the "C" jumper removed



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