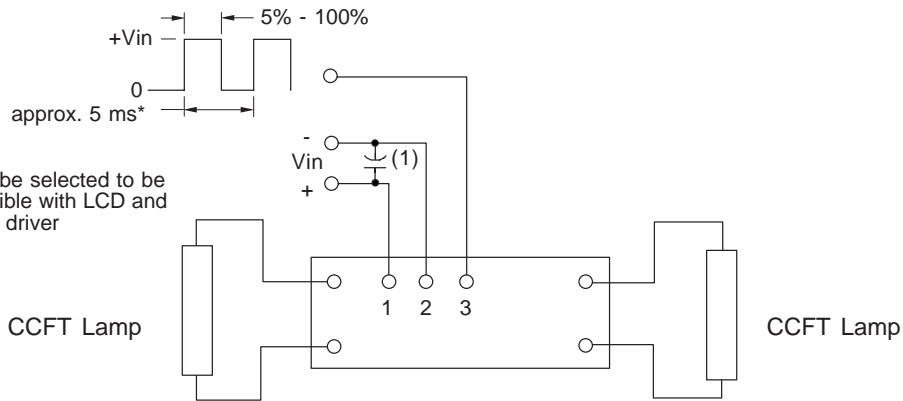


K2620

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.



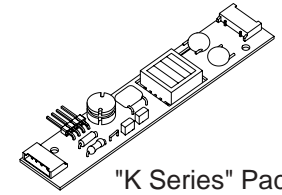
Endicott Research Group, Inc.
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607-754-9187



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<http://www.ergpower.com>

K2620

8m Class
2 Tube DC to AC Inverter



Specifications and Applications Information

11/02/01

Preliminary

The ERG K2620 (*8m Class*) low profile dc to ac inverter is specifically designed to power the Kyocera KHS072VG2MA-L89 LCD display module to a moderate brightness level from a +5 volt dc source.

This low profile inverter features:

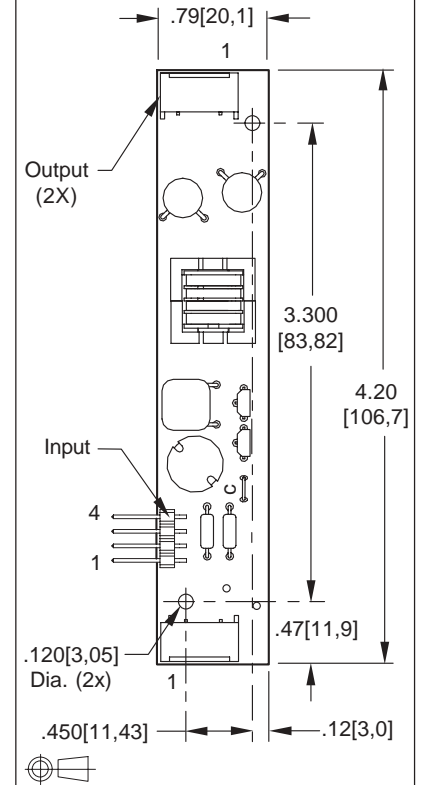
- ✓ Less Than 8 mm in Height
- ✓ LCD Module Specific
- ✓ Display Compatible Output Connector
- ✓ Firm Specifications
- ✓ Application Information
- ✓ Designed, Manufactured and Supported in the USA
- ✓ Custom Input and Output Voltages
- ✓ Flexible System Interface

Pin Descriptions

Input Connector	Output Connectors	
4 pins are 0.315" [8,00] Long, 0.025" [0,63] Square and are on 0.100" [2,54] Centers.	JST SM02(8.0)B-BHS1TB	
J1-1 Vin(+)	J2-1 ACout	J3-1 ACout
J1-2 GND	J2-2 N/C	J3-2 N/C
J1-3 Control *	J2-3 N/C	J3-3 N/C
J1-4 N/C	J2-4 ACout	J3-4 ACout

* Valid when the "C" Jumper is removed

Package Configuration



K2620

Absolute Maximum Ratings

Rating	Symbol	Value	Units
Input Voltage Range	V _{in}	-0.3 to +5.5	Vdc
Operating Temperature	T _o	-0 to +70	°C
Storage Temperature	T _{stg}	-40 to +85	°C

Recommended Operating Conditions

Rating	Symbol	Value	Units
Input Voltage	V _{in}	+2.5 to 5.5	Vdc

Electrical Characteristics

Unless otherwise noted V_{in} = 5.00 Volts dc and T_a = 25 °C

Characteristic	Symbol	Min	Typ	Max	Units
Input Current	I _{in}	-	1.05	1.20	Adc
Operating Frequency	F _o	39	44	49	KHz
Minimum Output Voltage	V _{out} (min)	1200	-	-	Vrms
Efficiency	η	-	74	-	%
Output Current (per tube)	I _{out}	-	5	-	marms
Output Voltage (per tube) (When powering a load simulating the referenced display.)	V _{out}	-	390	-	Vrms
Pin3 Input Current Requirement	-	-	11	-	madc

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

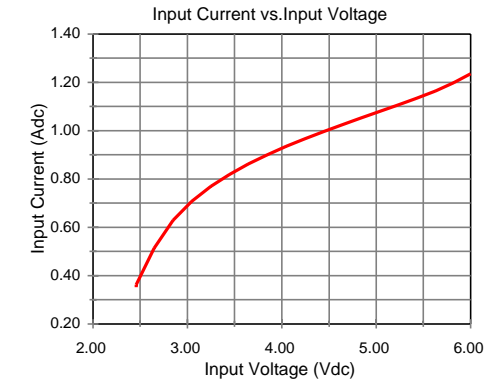
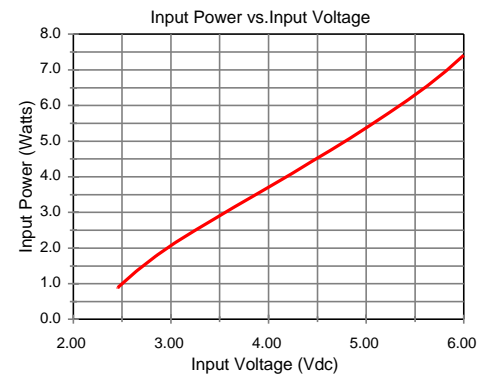
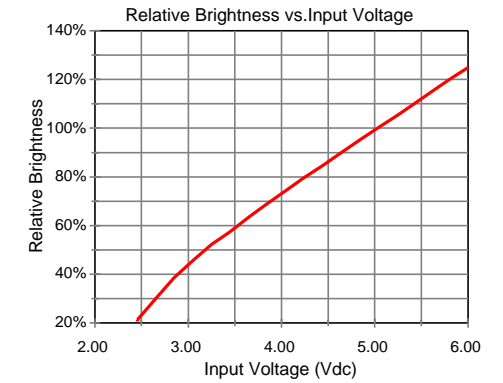
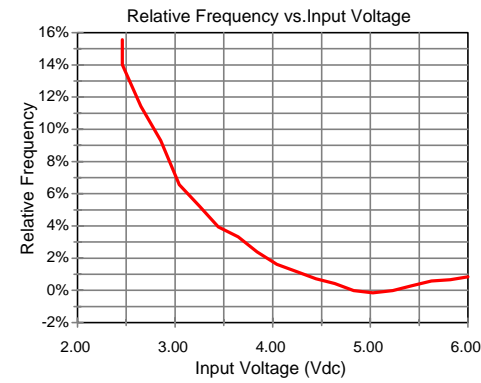


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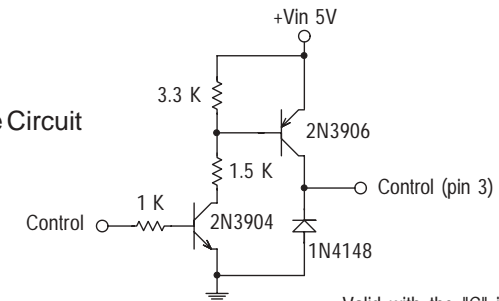
Made in USA

Typical Performance Curves

K2620



Disable Circuit



Valid with the "C" jumper removed



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