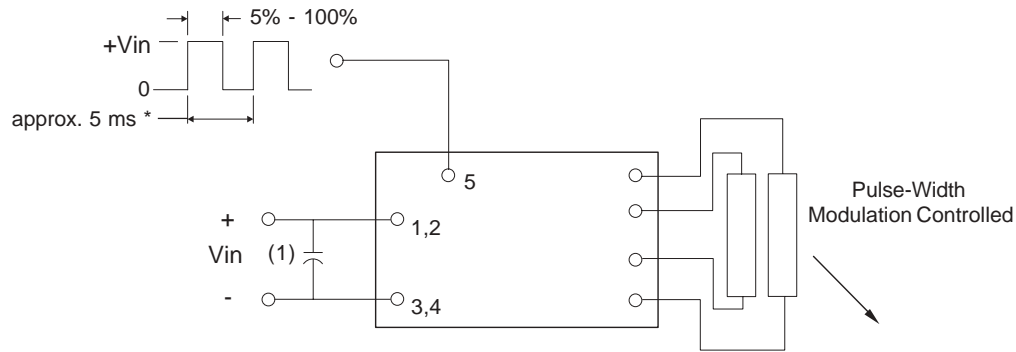


L2305

Dimming Option



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

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



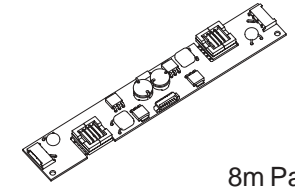
Endicott Research Group, Inc.
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607-754-9187



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<http://www.ergpower.com>

L2305

8m Class DC to AC Inverter



8m Package

Specifications and Applications Information

08/02/01

Preliminary

The ERG L2305 (**8m Class**) low profile dc to ac inverter is specifically designed to power the LG LM151X2 LCD display module to a moderate brightness level from a +12 volt dc source.

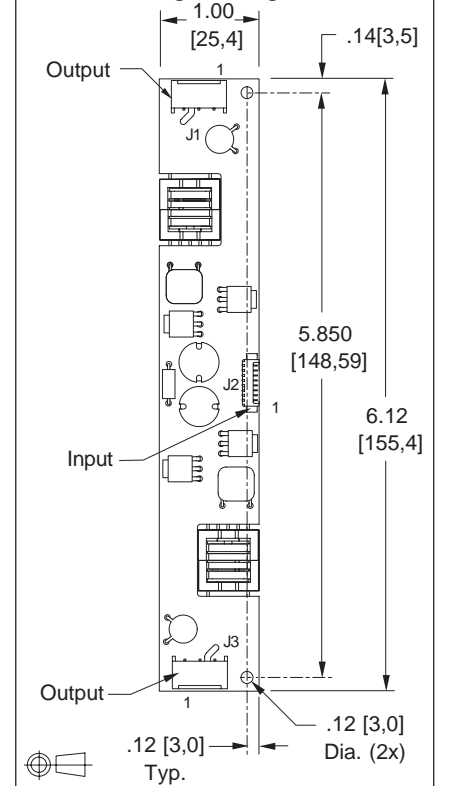
This low profile inverter features:

- ✓ LCD Module Specific
- ✓ Display Compatible Output Connector
- ✓ Firm Specifications
- ✓ Application Information
- ✓ Designed, Manufactured and Supported in the USA
- ✓ Custom Input and Output Voltages Available
- ✓ Flexible System Interface
- ✓ Notebook Display Head Compatible

Pin Descriptions

Input Connector		Output Connector	
MOLEX 532-61-0890		JST SM02(8.0)B-BHS1TB	
J2-1	Vin	J1-1	ACout
J2-2	Vin	J1-4	Common
J2-3	GND		
J2-4	GND		
J2-5	Control	J3-1	ACout
J2-6-8	N/C	J3-4	Common

Package Configuration



L2305

Absolute Maximum Ratings

Rating	Symbol	Value	Units
Input Voltage Range	V _{in}	-0.3 to +13.2	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}	+6 to 13.2	Vdc

Electrical Characteristics

Unless otherwise noted V_{in} = 12.00 Volts dc and T_a = 25 °C

Characteristic	Symbol	Min	Typ	Max	Units
Input Current	I _{in}	-	.91	1.02	Adc
Operating Frequency	F _o	35	40	45	KHz
Minimum Output Voltage	V _{out} (min)	1500	-	-	Vrms
Efficiency	η	-	86	-	%
Output Current per tube	I _{out}	-	8	-	marms
Output Voltage (when Powering the two tube LG LM151X2 display)	V _{out}	-	585	-	Vrms
Pin5 Input Current Requirement	-	-	14	-	madc

After tube has been allowed to warm-up for 5 minutes
External Disable Circuit shown on page 3.

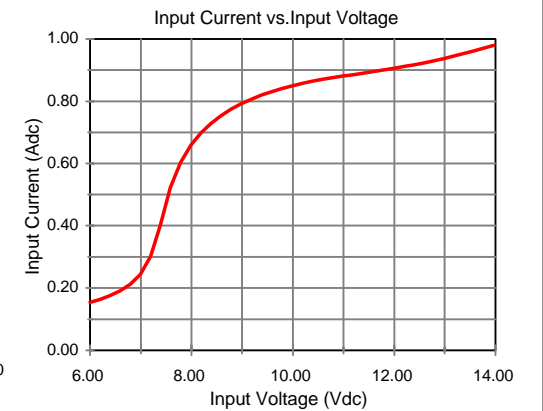
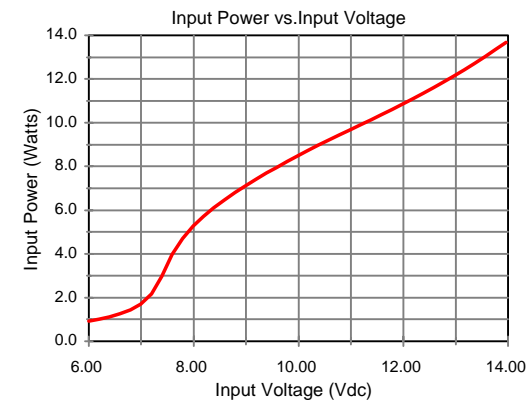
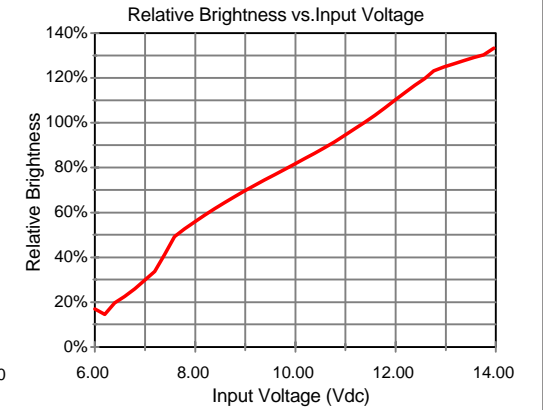
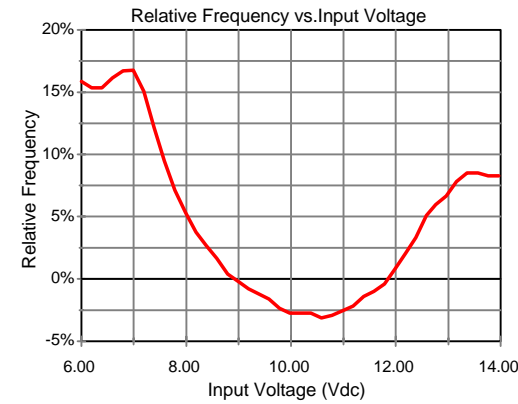
Specifications subject to change without notice.



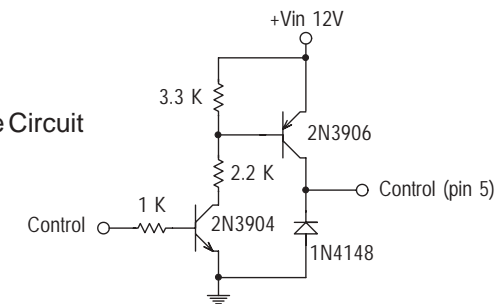
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Typical Performance Curves

L2305



Disable Circuit



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