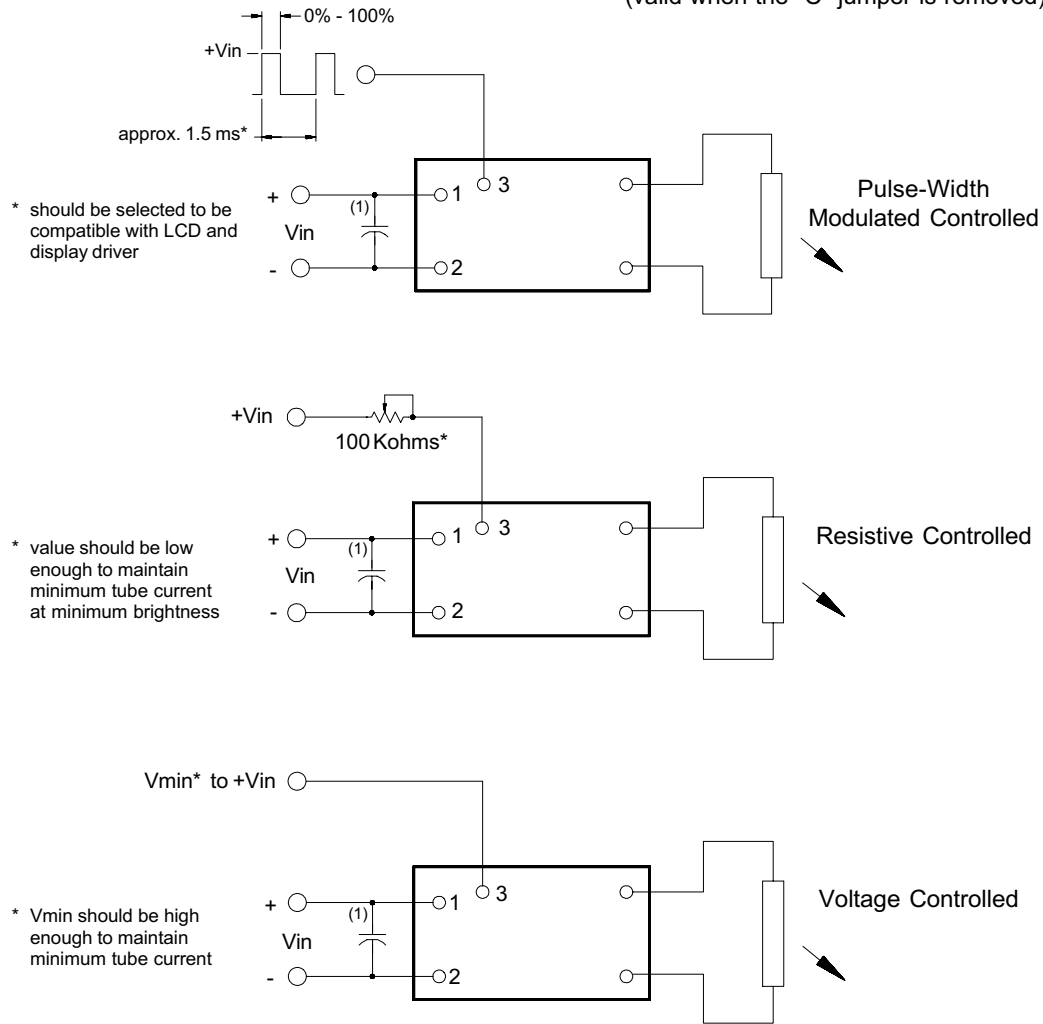


8M122001

3 Dimming Options (valid when the "C" jumper is removed)



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



Endicott Research Group, Inc.

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<http://www.ergpower.com>

Specifications and Applications Information

8/18/99

Preliminary

The ERG 8M122001 (*8m Class*) low profile dc to ac inverter is specifically designed to power the Display International DG32240 LCD display module to a moderate brightness level from a +12 volt dc source.

This low profile inverter features:

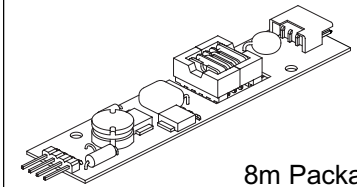
- ✓ Less Than 8 mm in Height
- ✓ LCD Module Specific
- ✓ Display Compatible Output Connector
- ✓ Firm Specifications
- ✓ Application Information
- ✓ Designed, Manufactured and Supported in the USA
- ✓ Custom Input and Output Voltages
- ✓ Flexible System Interface
- ✓ Notebook Display Head Compatible

Pin Descriptions

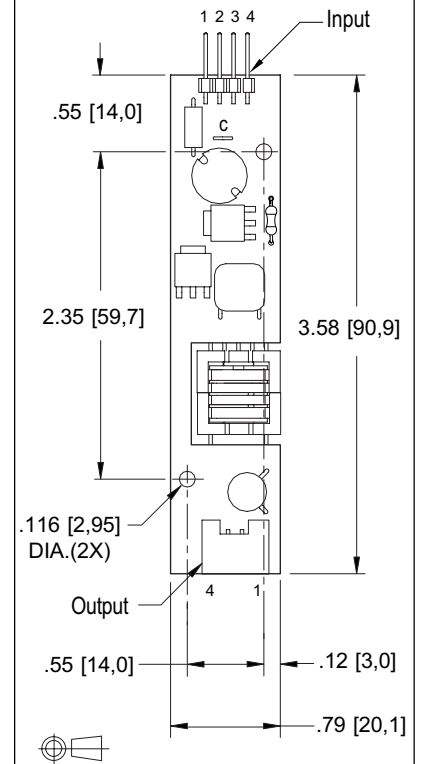
Input Connector	Output Connector
4 pins are 0.315" [8,00] Long, 0.025" [0,63] Square and are on 0.100" [2,54] Centers.	JAE IL-G-4P-S3L2-E
Con1-1 Vin(+) Con1-2 GND Con1-3 Control * Con1-4 NC	Con2-1 ACout Con2-2 NC Con2-3 NC Con2-4 ACout
* Valid when the "C" Jumper is removed	

8M122001

8m Class DC to AC Inverter



Package Configuration



8M122001

Absolute Maximum Ratings

Rating	Symbol	Value	Units
Input Voltage Range	V _{in}	-0.3 to +15	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}	+6.0 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}	-	.16	.19	A _{dc}
Operating Frequency	F _o	30	34	38	KHz
Minimum Output Voltage	V _{out} (min)	1250	-	-	V _{rms}
Efficiency	η	-	70	-	%
Output Current	I _{out}	-	5.2	-	mA _{rms}
Output Voltage (when Powering a Load Simulating the characteristics of the referenced display)	V _{out}	-	260	-	V _{rms}

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

Specifications subject to change without notice

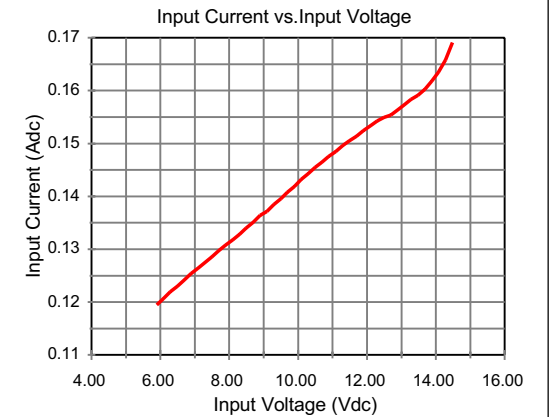
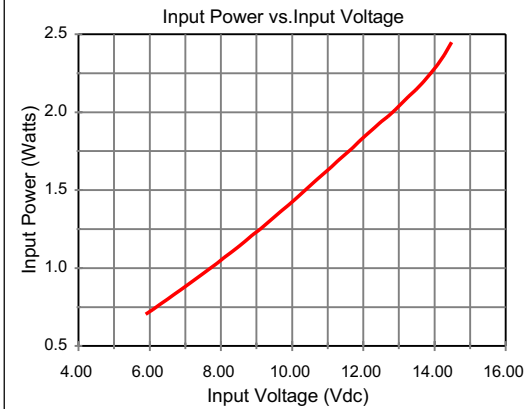
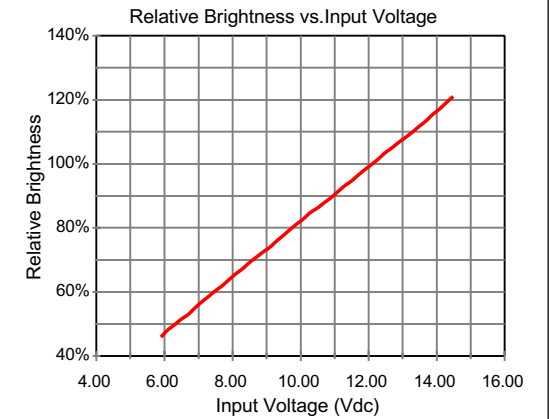
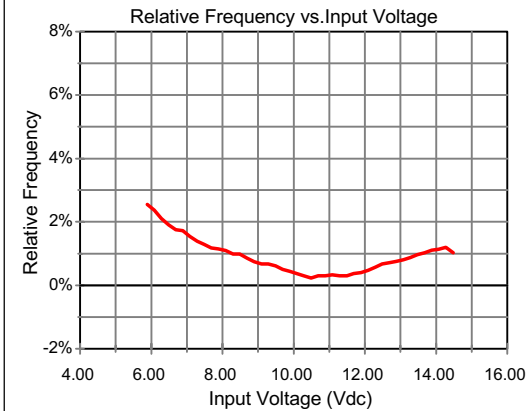


Endicott Research Group, Inc.

Made in USA

8M122001

Typical Performance Curves



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