

Endicott Research Group, Inc.

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Specifications and Applications Information

07/21/05 Preliminary

The ERG 8m052000 (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 +5 volt dc source.

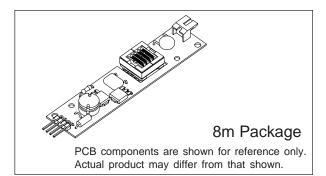
This low profile inverter features:

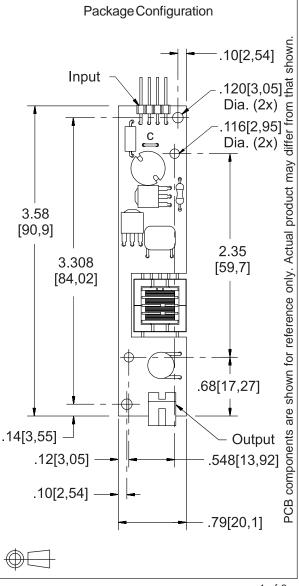
- ✓ Less Than 8 mm in Height
- ✓ LCD Module Specific
- ✓ Display Compatible Output Connector
- ✓ Firm Specifications
- ✓ Application Information
- Designed, Manufactured and Supported in the USA
- ✓ Custom Input and Output Voltages
- √ Flexible System Interface
- ✓ Notebook Display Head Compatible

Connectors Input Connector Output Connector JAE 4 pins are 0.315" [8,00] Long, IL-G3P-S3L2-E 0.025" [0,63] Square and are on 0.100" [2,54] Centers. J1-1 Vin(+) J2-1 ACout J1-2 GND J2-2 N/C J1-3 Control* J2-2 ACout J1-4 N/C ' Valid with the "C" jumper removed

8m052000

8m Class DC to AC Inverter





Absolute Maximum Ratings

8m052000

Rating	Symbol	Value	Units
Input Voltage Range	Vin	-0.3 to +5.5	Vdc
Operating Temperature	То	-0 to +70	°C
Storage Temperature	Tstg	-40 to +85	°C

Recommended Operating Conditions

Rating	Symbol	Value	Units
Input Voltage	Vin	+4.50 to 5.25	Vdc

Electrical Characteristics

Unless otherwise noted Vin = 5.00 Volts dc and Ta = 25°C

Characteristic	Symbol	Min	Тур	Max	Units
Input Current (note 1)	lin	-	.37	.43	Adc
Operating Frequency	Fo	33	38	43	KHz
Minimum Output Voltage	Vout (min)	1250	-	-	Vrms
Efficiency	-	-	68	-	%
Output Current (per tube)	lout	-	5	-	marms
Output Voltage (When powering a load simulating the referenced display)	Vout	-	250	-	Vrms
Pin3 Input Current Requirement	-	-	6.1	-	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.

(Note 1) Input current in excess of maximum may indicate a load/inverter mismatch condition, which can result in reduced reliability. Please contact ERG technical support.

Application Notes:

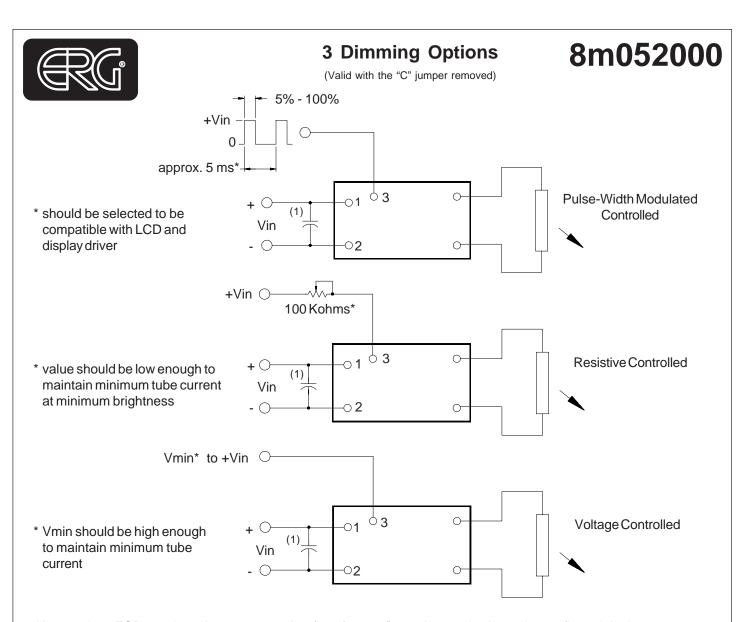
- 1) The minimum distance from high voltage areas of the inverter to any conductive material should be .12 inches per kilovolt of starting voltage.
- 2) Mounting hardware should be non-conductive.
- 3) Open framed inverters should not be used in applications at altitudes over 10,000 feet.
- 4) Contact ERG for possible exceptions.



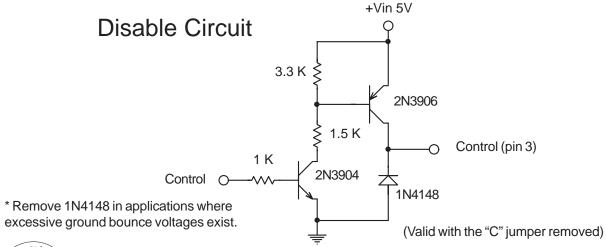
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Made in USA



Note 1 - Low ESR type input by-pass capacitor (22 uf - 100uf) may be required to reduce reflected ripple.





Endicott Research Group, Inc. (ERG) reserves the right to make changes in circuit design and/or specifications at any time without notice. Accordingly, the reader is cautioned to verify that data sheets are current before placing orders. Information furnished by ERG is believed to be accurate and reliable. However, no responsibility is assumed by ERG for its use.