

Endicott Research Group, Inc.

2601 Wayne St., Endicott, NY 13760 607-754-9187 Fax 607-754-9255 http://www.ergpower.com 8m052764

Specifications and Applications Information

04/28/04 Preliminary

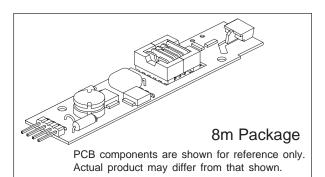
The ERG 8m052764 (8m Class) low profile dc to ac inverter is specifically designed to power the Toshiba LTM08C355S LCD display module to a moderate brightness level from a +5 volt dc source.

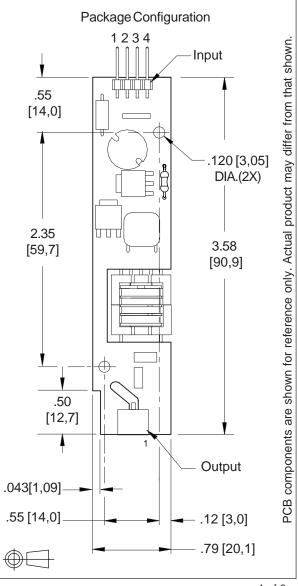
This low profile inverter features:

- ✓ 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 | | | |
| 4 pins are 0.315" [8,00] Long, 0.025" [0,63] Square and are on 0.100" [2,54] Centers. | JAE HV-2P-HF-E1400 | | | |
| J1-1 Vin(+) J1-2 GND J1-3 Control* J1-4 N/C * Valid when the "C" jumper is removed | J2-1 ACcommon J2-2 ACout | | | |

8m Class DC to AC Inverter





Absolute Maximum Ratings

8m052764

| 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

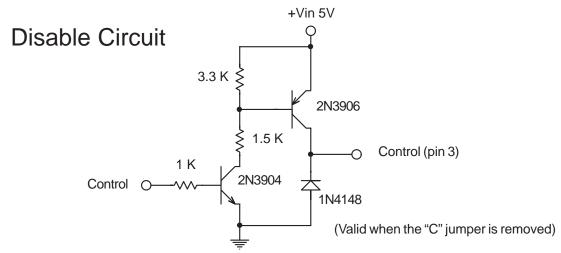
| Characteristic | Symbol | Min | Тур | Max | Units |
|--|------------|------|-----|-----|-------|
| Input Current (note 1) | lin | - | .49 | .56 | Adc |
| Operating Frequency | Fo | 29 | 34 | 39 | KHz |
| Minimum Output Voltage | Vout (min) | 1500 | - | - | Vrms |
| Efficiency | - | - | 78 | - | % |
| Output Current (per tube) | lout | - | 4.2 | - | marms |
| Output Voltage (When powering a load simulating the referenced display) | Vout | - | 455 | - | Vrms |
| Pin3 Input Current Requirement | - | - | 13 | - | madc |

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

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.

Input voltage specification modified for clarity on 4/2004.





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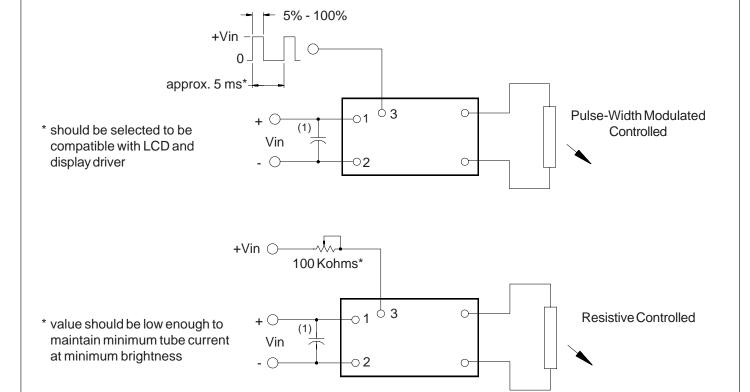
Made in USA

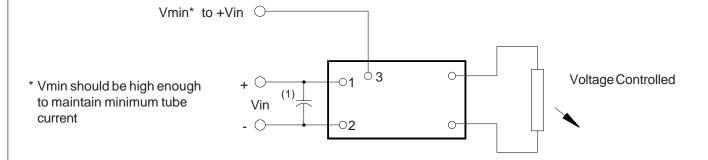


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3 Dimming Options

(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. (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.