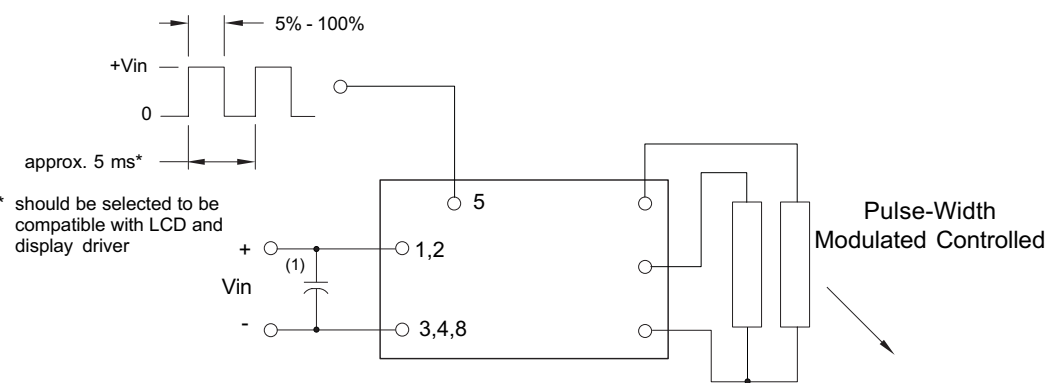


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Dimming Option



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



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Specifications and  
Applications Information

9/7/00

Preliminary

The ERG 8mA22372 (*8m Class*) low profile dc to ac inverter is specifically designed to power the Purdy AND08C350-HB LCD display module to a moderate brightness level from a +12 volt dc source.

This low profile inverter features:

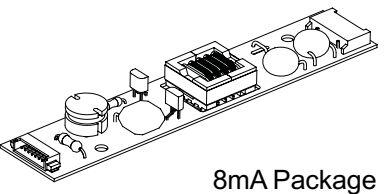
- ✓ Less Than 8 mm in Height
- ✓ LCD Module Specific
- ✓ Display Compatible Output Connector
- ✓ Firm Specifications
- ✓ Application Information
- ✓ Designed, Manufactured and Supported in the USA
- ✓ Custom Input and Output Voltages
- ✓ Flexible System Interface
- ✓ Notebook Display Head Compatible

Pin Descriptions

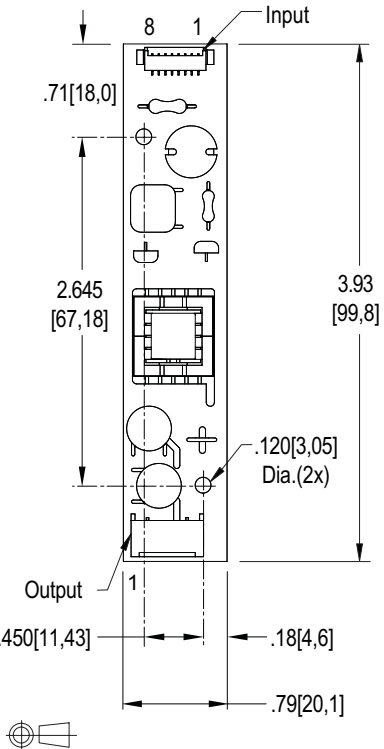
| Input Connector     | Output Connector           |
|---------------------|----------------------------|
| Molex<br>53261-0890 | JST<br>SM04(4.0)B-BHS-1-TB |
| Con1-1 Vin(+)       | Con2-1 ACout               |
| Con1-2 Vin(+)       | Con2-2 ACout               |
| Con1-3 GND          | Con2-3 NC                  |
| Con1-4 GND          | Con2-4 Common              |
| Con1-5 Control      |                            |
| Con1-6 NC           |                            |
| Con1-7 NC           |                            |
| Con1-8 GND          |                            |

8mA22372

8m Class  
DC to AC Inverter



Package Configuration



# 8mA22372

## Absolute Maximum Ratings

| Rating                | Symbol | Value         | Units |
|-----------------------|--------|---------------|-------|
| Input Voltage Range   | Vin    | -0.3 to +13.2 | Vdc   |
| Operating Temperature | To     | -0 to +70     | °C    |
| Storage Temperature   | Tstg   | -40 to +85    | °C    |

## Recommended Operating Conditions

| Rating        | Symbol | Value      | Units |
|---------------|--------|------------|-------|
| Input Voltage | Vin    | +6 to 13.2 | Vdc   |

## Electrical Characteristics

Unless otherwise noted Vin = 12.00 Volts dc and Ta = 25 °C

| Characteristic                                                 | Symbol     | Min  | Typ | Max | Units |
|----------------------------------------------------------------|------------|------|-----|-----|-------|
| Input Current                                                  | Iin        | -    | .48 | .55 | Adc   |
| Operating Frequency                                            | Fo         | 41   | 46  | 51  | KHz   |
| Minimum Output Voltage                                         | Vout (min) | 1500 | -   | -   | Vrms  |
| Efficiency                                                     | η          | -    | 77  | -   | %     |
| Output Current per tube                                        | Iout       | -    | 6.3 | -   | marms |
| Output Voltage<br>(When powering a Toshiba LTM08C351 display.) | Vout       | -    | 350 | -   | Vrms  |
| Pin5 Input Current Requirement                                 | -          | -    | 8   | -   | 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.

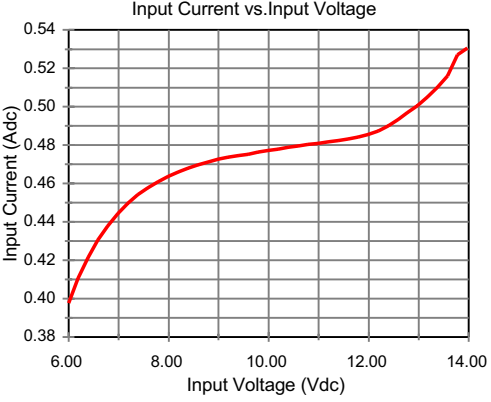
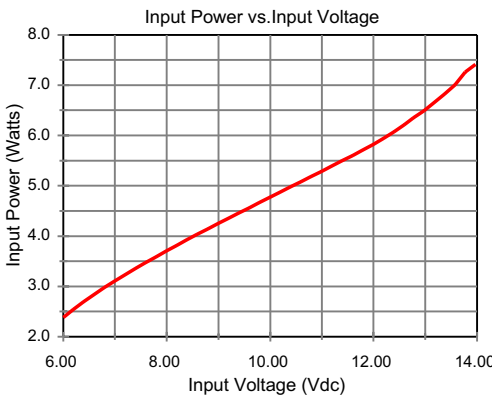
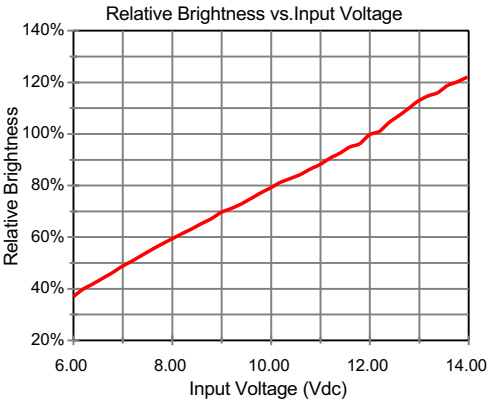
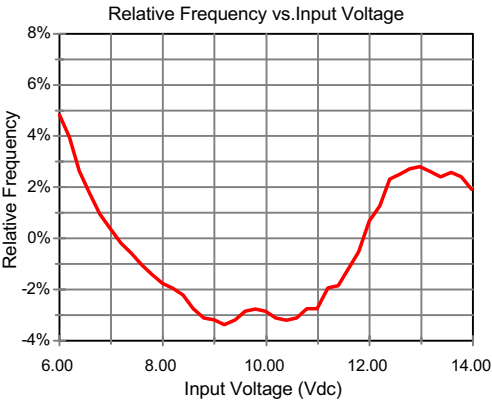


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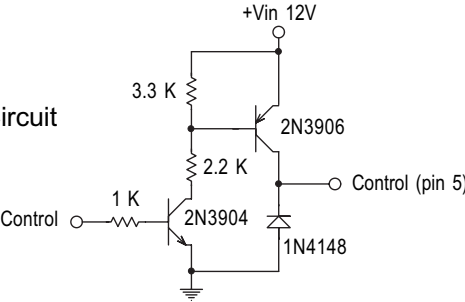
Made in USA

## Typical Performance Curves

# 8mA22372



Disable Circuit



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