

## Endicott Research Group, Inc.

2601 Wayne St., Endicott, NY 13760 607-754-9187 Fax 607-754-9255 http://www.ergpower.com K3434

# Specifications and Applications Information

12/20/05 Preliminary

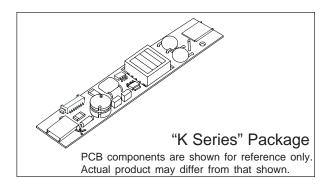
The ERG K3434 (8m Class) low profile dc to ac inverter is specifically designed to power the BSI BLB064V02-EA LCD display module to a moderate brightness level from a +5 volt dc source.

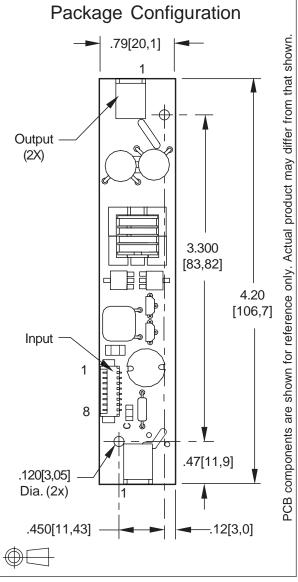
This low profile inverter features:

- ✓ 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 Connectors				
Molex 532-61-0890	JST SM02B-BHSS-1-TB				
J1-1 Vin(+) J1-2 Vin(+) J1-3 GND J1-4 GND J1-5 Control* J1-6-8 N/C * Valid with "C" jumper removed	J6-1 ACout J7-1 ACout J6-2 ACout J7-2 ACout				

## 8m Class 2 Lamp DC to AC Inverter





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	-	.96	1.1	Adc
Operating Frequency	Fo	39	44	49	KHz
Minimum Output Voltage	Vout (min)	1300	-	-	Vrms
Efficiency	-	-	73	-	%
Output Current (per lamp)	lout	-	5	-	marms
Output Voltage (When powering a load simulating the referenced display)	Vout	-	350	-	Vrms
Pin5 Input Current Requirement	-	-	10	-	madc

After lamp 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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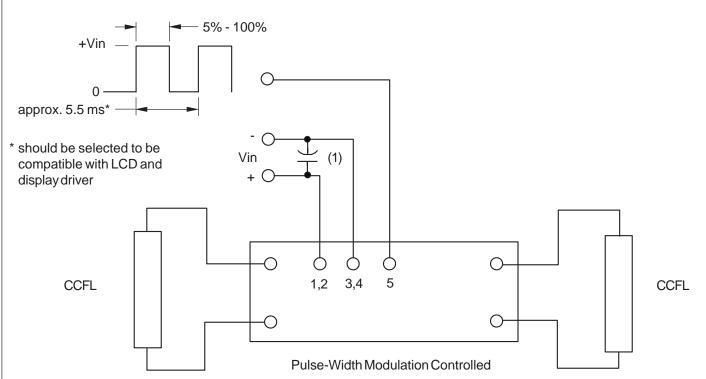
Made in USA



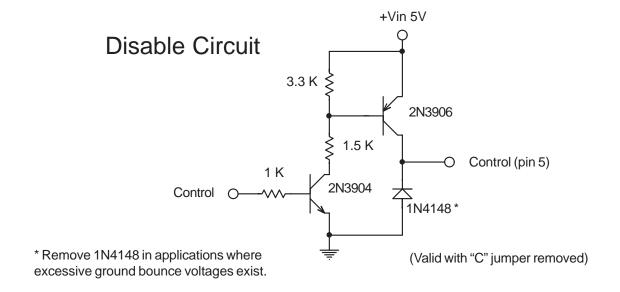
# **Dimming Option**

K3434

(Valid with "C" jumper removed)



Note 1 - Low ESR type input by-pass capacitor (22 uf - 100 uf) 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.