

Endicott Research Group, Inc.

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

8mA23002

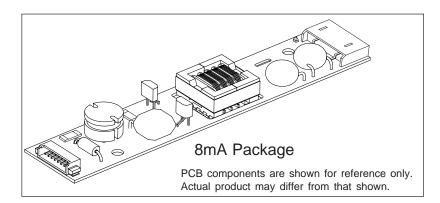
Specifications and Applications Information

04/26/04 Preliminary

The ERG 8mA23002 (8m Class) low profile dc to ac inverter is specifically designed to power the Sharp LQ084S3DG01 display module to a moderate brightness level from a +12 volt dc source.

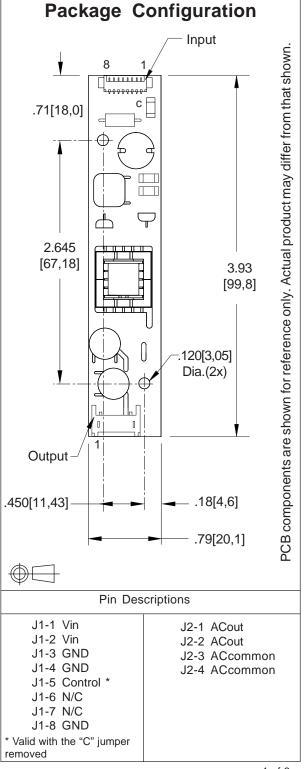
This low profile inverter features:

- ✓ 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



Con			
Input J1 Molex 53261-0890	Output J2 JST SM04(4.0)B-BHS-1-TB	•	S-1-TB

Two Tube DC to AC Inverter





Absolute Maximum Ratings

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

Recommended Operating Conditions

Rating	Symbol	Value	Units
Input Voltage	Vin	+10.8 to 12.6	Vdc

Electrical Characteristics

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

Characteristic	Symbol	Min	Тур	Max	Units
Input Current	lin	-	.57	.66	Adc
Operating Frequency	Fo	38	43	48	KHz
Minimum Output Voltage	Vout (min)	1500	-	-	Vrms
Efficiency	-	-	83	-	%
Output Current	lout	-	6.3	-	marms
Output Voltage (When powering a load simulating the referenced display)	Vout	-	450	-	Vrms
Pin5 Input Current Requirement	-	-	7	-	madc

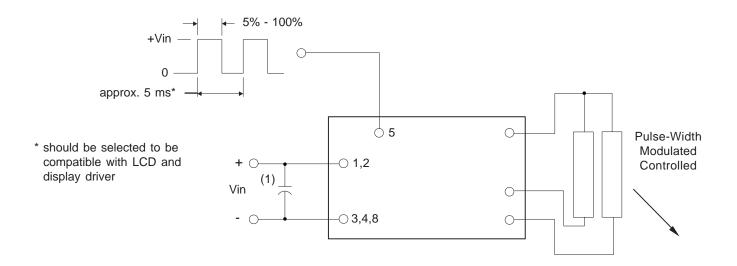
After tube has been allowed to warm-up for 5 minutes External Disable Circuit shown on page 3.

Specifications subject to change without notice.

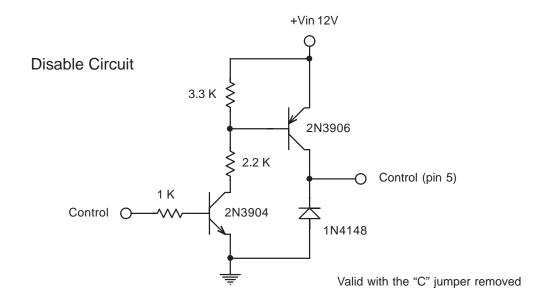
Input voltage specification modified for clarity 4/2004.



Dimming Option (Valid with the "C" jumper 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.