

Endicott Research Group, Inc.

2601 Wayne St., Endicott, NY 13760 607-754-9187 Fax 607-754-9255 http://www.ergpower.com 8m122765

Specifications and Applications Information

04/28/04 Preliminary

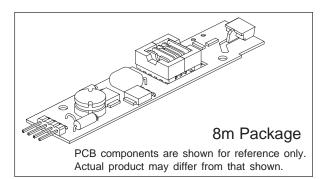
The ERG 8m122765 (8m Class) low profile dc to ac inverter is specifically designed to power the Toshiba LTM08C355S LCD display module to a moderate brightness level from a +12 volt dc source.

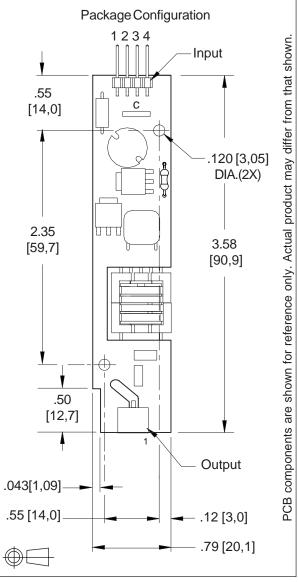
This low profile inverter features:

- ✓ 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

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	J2-1 ACout J2-2 ACout				
* Valid with "C" jumper removed					

8m Class DC to AC Inverter





Absolute Maximum Ratings

8m122765

Rating	Symbol Value		Units
Input Voltage Range	Vin	-0.3 to +13.2	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	+10.8 to 12.6	Vdc

Electrical Characteristics

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

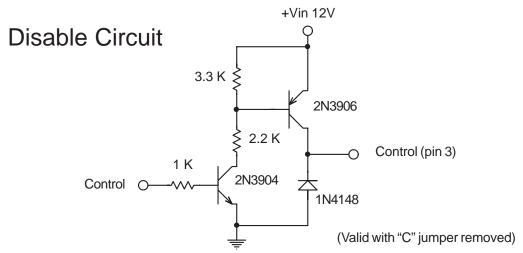
Characteristic	Symbol	Min	Тур	Max	Units
Input Current (note 1)	lin	-	.24	.27	Adc
Operating Frequency	Fo	27	32	37	KHz
Minimum Output Voltage	Vout (min)	1500	-	-	Vrms
Efficiency	-	-	80	-	%
Output Current (per tube)	lout	-	4.2	-	marms
Output Voltage (When powering a load simulating the referenced display)	Vout	-	455	-	Vrms
Pin3 Input Current Requirement	-	-	5	-	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.





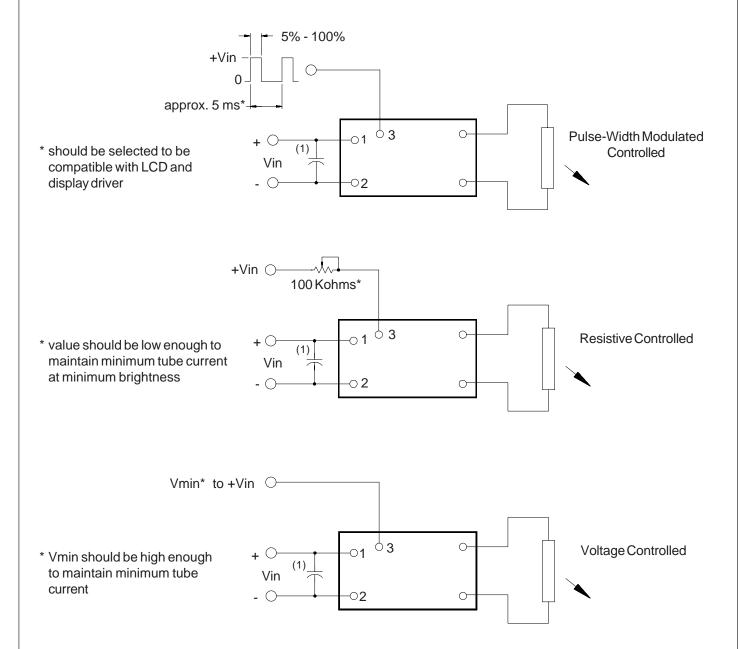
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Made in USA



8m122765

3 Dimming Options (Valid with "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.