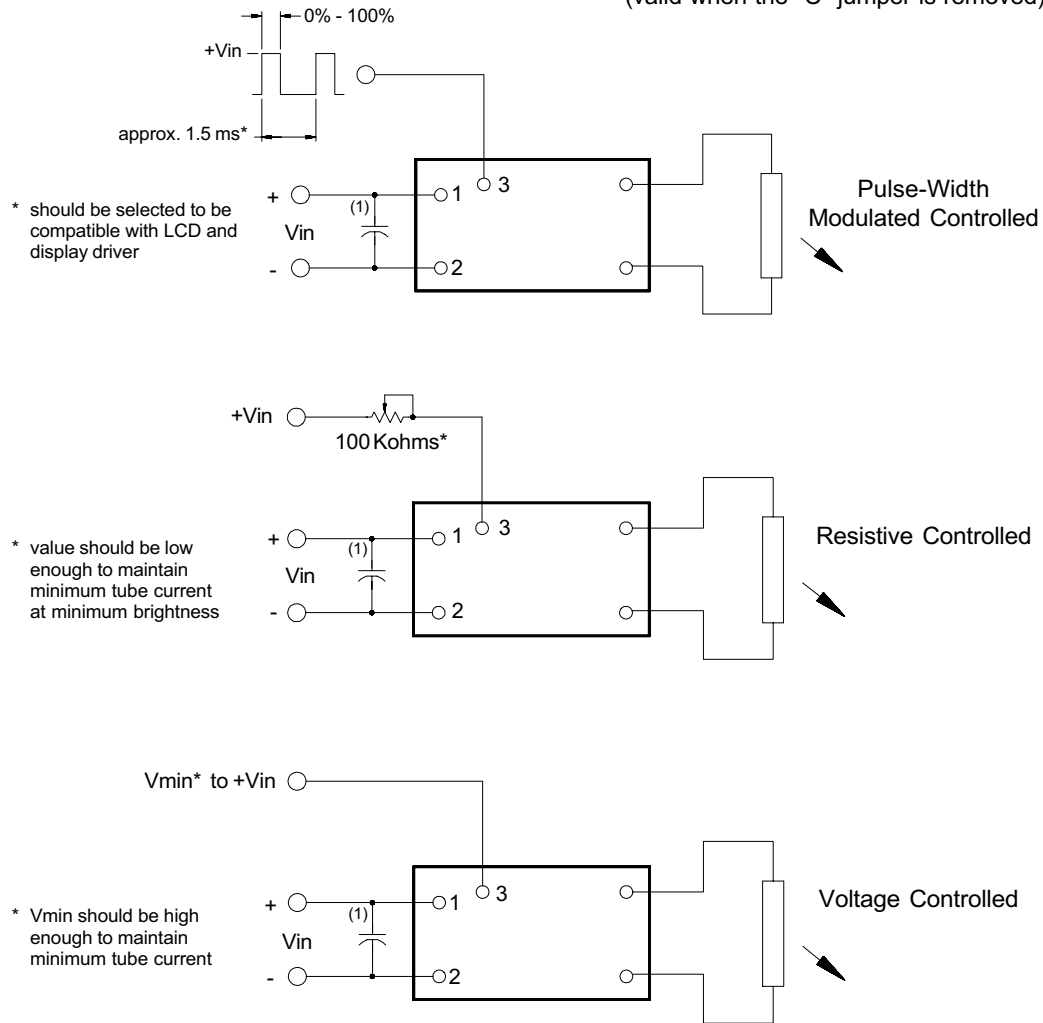


8M122248

3 Dimming Options
(valid when the "C" jumper is removed)



* should be selected to be compatible with LCD and display driver

* value should be low enough to maintain minimum tube current at minimum brightness

* V_{min} should be high enough to maintain minimum tube current

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



Endicott Research Group, Inc.

2601 Wayne St., Endicott NY 13760

607-754-9187



Endicott Research Group, Inc.

2601 Wayne St., Endicott NY 13760

607-754-9187 Fax 607-754-9255

<http://www.ergpower.com>

Specifications and
Applications Information

11/11/99

Preliminary

The ERG 8M122248 (8m Class) low profile dc to ac inverter is specifically designed to power the Hitachi SX25S001 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

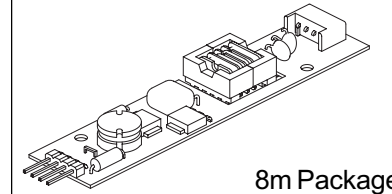
Pin Descriptions

Input Connector	Output Connector
4 pins are 0.315" [8,00] Long, 0.025" [0,63] Square and are on 0.100" [2,54] Centers.	Mitsumi M60-04-30-134P
Con1-1 Vin(+) Con1-2 GND Con1-3 Control * Con1-4 NC	Con2-1 ACout Con2-2 NC Con2-3 NC Con2-4 ACout

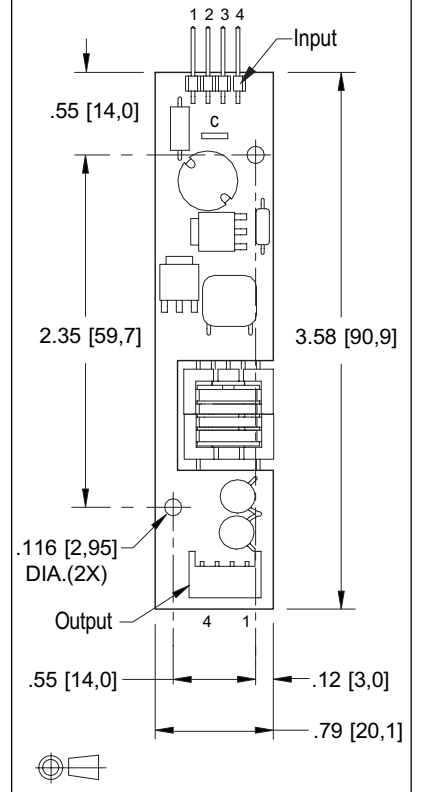
* Valid when the "C" Jumper is removed

8M122248

8m Class
DC to AC Inverter



Package Configuration



8M122248

Absolute Maximum Ratings

Rating	Symbol	Value	Units
Input Voltage Range	V_{in}	-0.3 to +13.2	Vdc
Operating Temperature	T_o	0 to +70	°C
Storage Temperature	T_{stg}	-40 to +85	°C

Recommended Operating Conditions

Rating	Symbol	Value	Units
Input Voltage	V_{in}	+6 to 13.2	Vdc

Electrical Characteristics

Unless otherwise noted $V_{in} = 12.00$ Volts dc and $T_a = 25$ °C

Characteristic	Symbol	Min	Typ	Max	Units
Input Current	I_{in}	-	.12	.14	Adc
Operating Frequency	F_o	26	30	34	KHz
Minimum Output Voltage	$V_{out} (min)$	1400	-	-	V_{rms}
Efficiency	η	-	70	-	%
Output Current	I_{out}	-	2.1	-	marms
Output Voltage (See below)	V_{out}	-	480	-	V_{rms}

Specifications obtained using a 227 KΩ resistor.
This load is approximately equivalent to the referred display.

Specifications subject to change without notice.



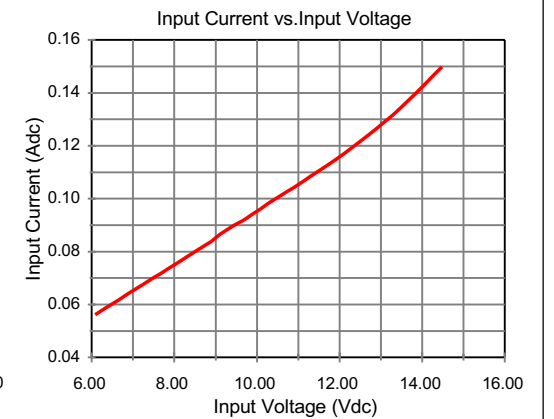
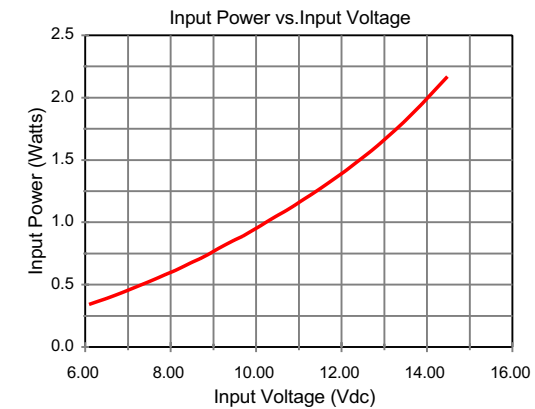
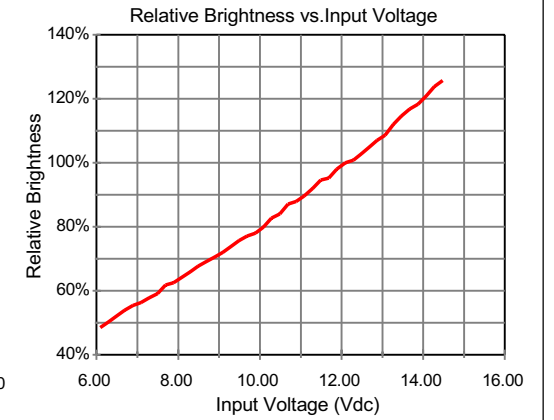
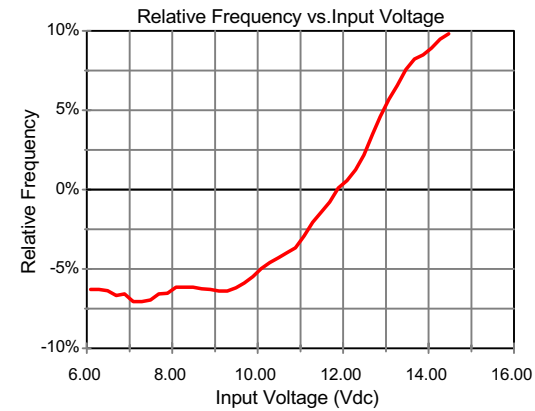
Endicott Research Group, Inc.

Made in USA

page 2.

8M122248

Typical Performance Curves



Endicott Research Group, Inc.

page 3.