

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

+Vin

0% - 100%

approx. 5 ms*

+

Vin

-

(1)

1

3

2

Pulse-Width
Modulated Controlled

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

+Vin

100 Kohms*

+

Vin

-

(1)

1

3

2

Resistive Controlled

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

Vmin* to +Vin

+

Vin

-

(1)

1

3

2

Voltage Controlled

* Vmin 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.

8m092099



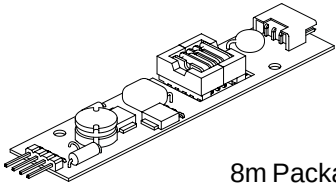
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8m092099

8m Class
DC to AC Inverter



8m Package

Specifications and
Applications Information

6/22/01Preliminary

The ERG 8m092099 (8m Class) low profile dc to ac inverter is specifically designed to power the Penware Inc. LCD display module to a moderate brightness level from a +9.5 volt dc source.

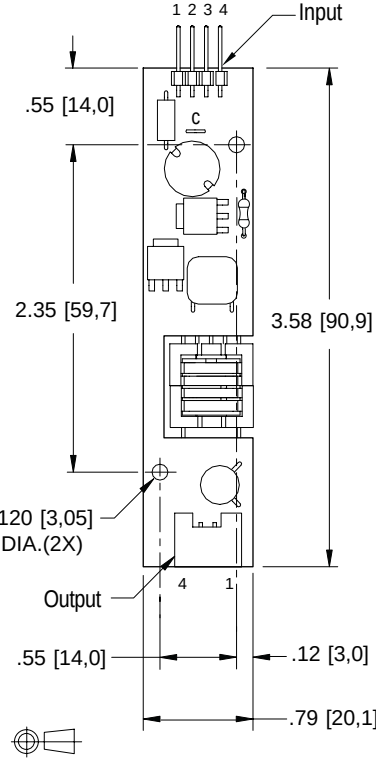
This low profile inverter features:

- ✓ 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

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.	JAE IL-G-4P-S3L2-E
Con1-1 Vin(+) Con1-2 GND Con1-3 Control * Con1-4 N/C	Con2-1 ACout Con2-2 N/C Con2-3 N/C Con2-4 ACout
* Valid when the "C" Jumper is removed	

Package Configuration



.55 [14,0]
2.35 [59,7]
3.58 [90,9]
.120 [3,05] DIA.(2X)
Output
.55 [14,0]
.12 [3,0]
.79 [20,1]

Absolute Maximum Ratings

Rating	Symbol	Value	Units
Input Voltage Range	Vin	-0.3 to +12.5	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	+5 to 10.5	Vdc

Electrical Characteristics

Unless otherwise noted Vin = 9.50 Volts dc and Ta = 25 °C

Characteristic	Symbol	Min	Typ	Max	Units
Input Current	lin	-	0.16	0.18	Adc
Operating Frequency	Fo	30	35	40	KHz
Minimum Output Voltage	Vout (min)	1000	-	-	Vrms
Efficiency	η	-	77	-	%
Output Current	lout	-	4.4	-	marms
Output Voltage (When powering the Penware Inc. LCD display.)	Vout	-	265	-	Vrms

After tube has been allowed to warm-up for 5 minutes Specifications subject to change without notice.

Typical Performance Curves

