



# Endicott Research Group, Inc.

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

# E3282

## Specifications and Applications Information

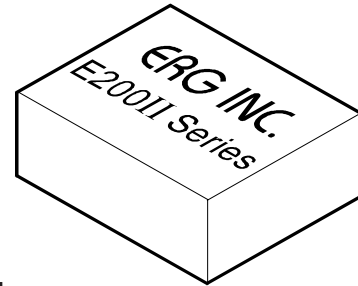
02/02/06

Preliminary

The E3282 (E200II Series) dc to ac inverter is specifically designed to power the Kyocera KCG089HV1AA-G00 CCFL to a moderate brightness level from a +5 volt dc source.

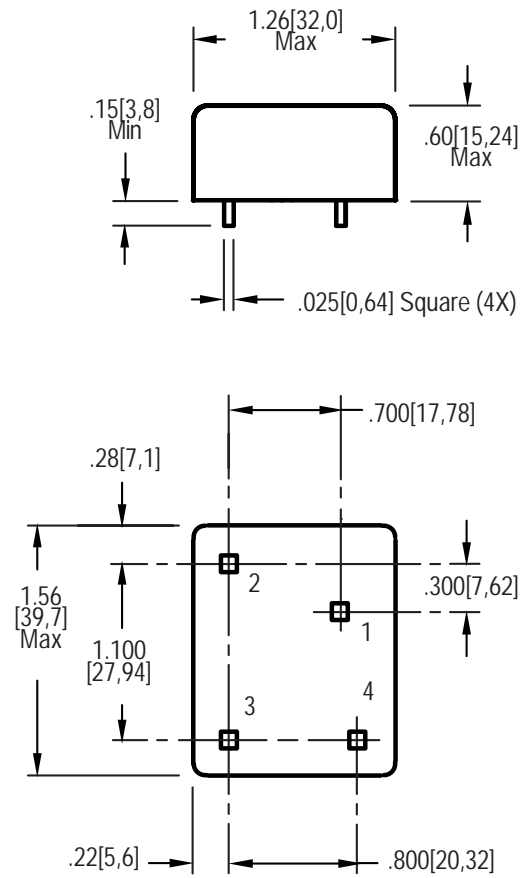
The E3282's small size and encapsulated package makes it the ideal power source for applications where small size, high efficiency and reliability are critical.

## Single Lamp DC to AC Inverter

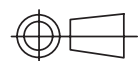


E200 Package

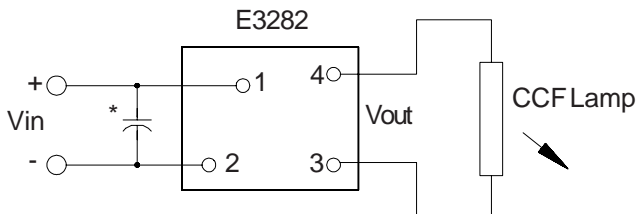
### Package Configuration



- 1. Vin(+)
- 2. Vin(-)
- 3. Vout(AC)
- 4. Vout(AC)



### Connection Diagram



\* Low ESR type Input bypass capacitor may be required (10uf - 100uf)

**Absolute Maximum Ratings**

Rating	Symbol	Value	Units
Input Voltage Range	Vin	-0.3 to +5.25	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	+4.75 to 5.25	Vdc

**Electrical Characteristics**

Unless otherwise noted Vin = 5.00 Volts dc and Ta = 25°C

Characteristic	Symbol	Min	Typ	Max	Units
Input Current	Iin	-	.61	.70	Adc
Operating Frequency	Fo	24	29	34	KHz
Minimum Output Voltage	Vout (min)	1500	-	-	Vrms
Efficiency	-	-	88	-	%
Output Current	Iout	-	5.2	-	marms
Output Voltage (When powering a load simulating the referenced display)	Vout	-	515	-	Vrms

After lamp has been allowed to warm-up for 5 minutes.

Specifications subject to change without notice.

**Application Notes:**

- 1) Printed circuit boards should be free of traces beneath the inverter.
- 2) The minimum distance from high voltage areas of the inverter to any conductive material should be .12 inches per kilovolt of starting voltage.
- 3) Contact ERG for possible exceptions.



**Endicott Research Group, Inc.**

2601 Wayne St., Endicott, NY 13760

607-754-9187 Fax 607-754-9255

<http://www.ergpower.com>

Made in U.S.A.

page 2 of 2.