



# Endicott Research Group, Inc.

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<http://www.ergpower.com>

E3168

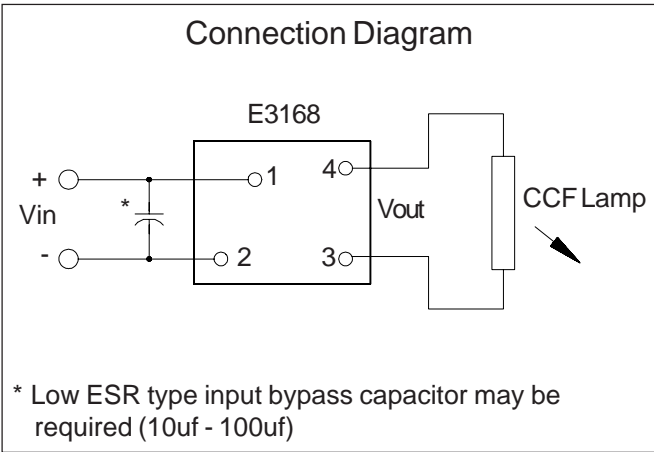
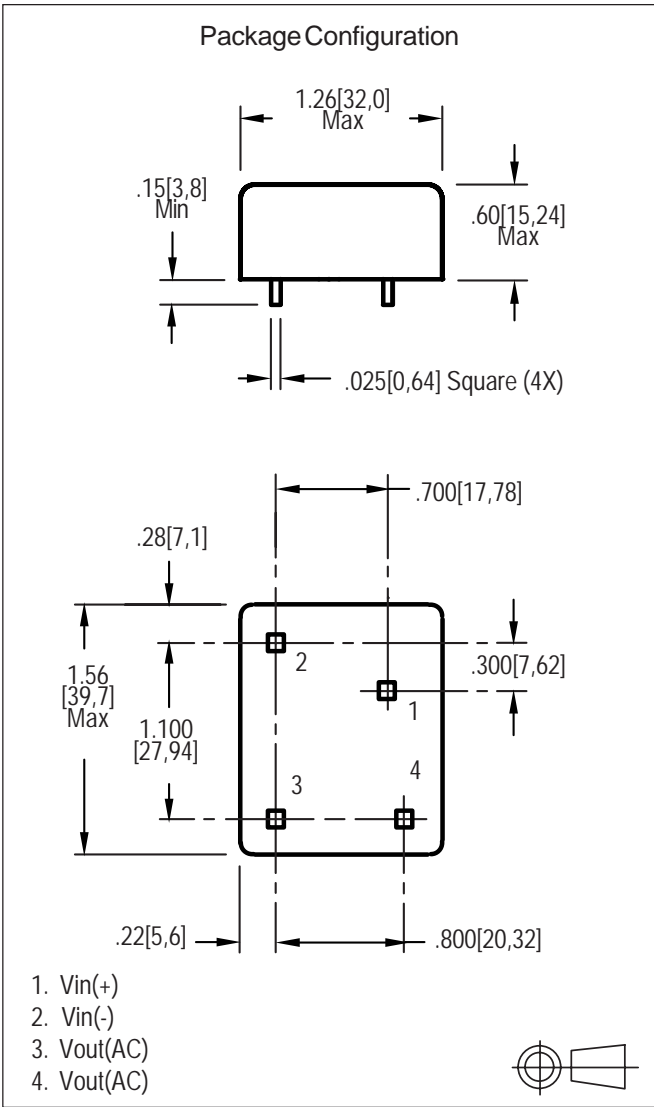
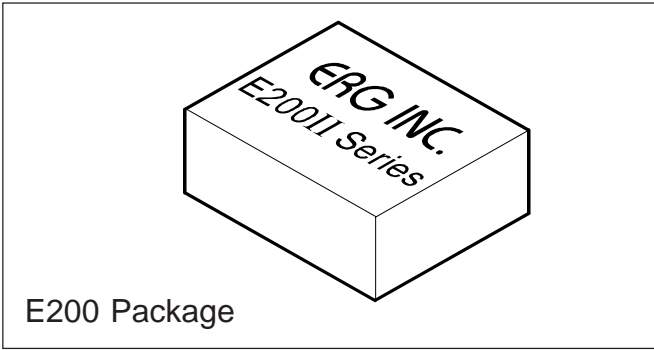
## Specifications and Applications Information

07/18/05Preliminary

The E3168 (E200II Series) dc to ac inverter is specifically designed to power the Kyocera KCG057QV1DB-G50 display to a moderate brightness level from a +12 volt dc source.

The E3168'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



**Absolute Maximum Ratings**

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

**Absolute Maximum Ratings**

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	Typ	Max	Units
Input Current	Iin	-	.25	.28	Adc
Operating Frequency	Fo	27	32	37	KHz
Minimum Output Voltage	Vout (min)	1500	-	-	Vrms
Efficiency	-	-	96	-	%
Output Current	Iout	-	4.2	-	marms
Output Voltage (When powering a load simulating the referenced display)	Vout	-	685	-	Vrms

After lamp has be 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.



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Made in U.S.A.

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