

# APPLIED CONCEPTS INC.

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# AC5-12-1164

## PRODUCT DATA SHEET

8/14/00

### CCFL INVERTER

(For Multiple Tube Applications)

The AC5-12-1164 is designed to power 10 CCFL's to a nominal power level of 20 watts.

Intensity control (0-100%) is accomplished by the user providing a variable dc level of 0V(off) to 5V(full-on) at pin 5 of CON1.

Enable control is accomplished at pin 3 of CON1 (0V=off, 5V=on).

All outputs are open and short circuit protected.

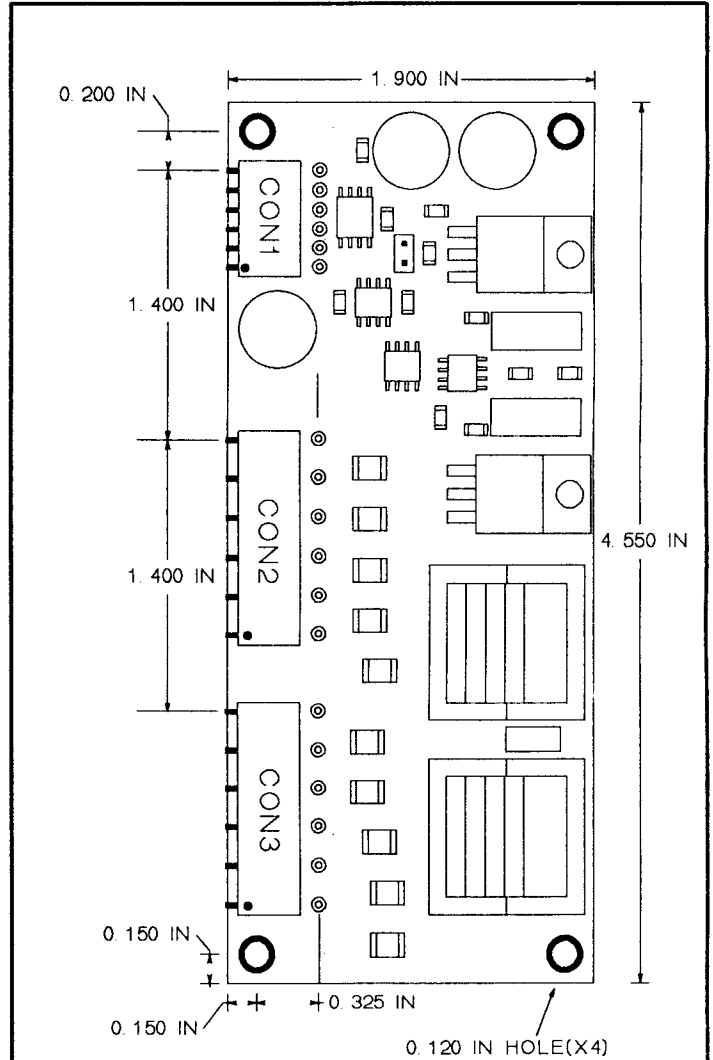
#### Specifications:

- Vin = +12V +/- 10%
- CCFL strike voltage = 1100Vrms @ Vin=12V
- CCFL tube current = 6.0mA/tube @ 100% intensity/Vin=12V
- Recommended CCFL sustaining voltage = 200Vrms - 450Vrms
- Nominal tube current frequency = 46kHz +/- 10%
- Nominal pwm frequency = 98Hz +/- 3%
- Pwm duty cycle range = 0 to 100%
- Average electrical efficiency >90%
- External PWM signal input control via enable pin
- Output PWM sync signal @ pin 6 of CON1 (for master/slave operation).

#### Additional control capability:\*

- Supports multiple units ie: Master/Slave(s)
- Synchronization to display frame-rate
- Low power sleep-mode and soft-start
- UL 1950 Recognized (File No. E201813)

\* Please contact factory for information



PROFILE = 0.575 IN

CON1 MOLEX 22-28-1063		CON2(CON3) MOLEX 22-28-1113	
PIN #		PIN #	
1	+12V	1	CCFL 5(10)
2	GND	2	NC
3	ENABLE	3	CCFL 4(9)
4	LOGIC HI	4	NC
5	VCNTL	5	CCFL 3(8)
6	PWM OUT	6	NC
		7	CCFL 2(7)
		8	NC
		9	CCFL 1(6)
		10	NC
		11	CCFL COMMON