

# APPLIED CONCEPTS INC.

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# AC5-12-1114

## PRODUCT DATA SHEET

## CCFL INVERTER

(For Multiple Tube Applications)

12/20/02

The AC5-12-1114 is designed to power 8 CCFL's to a nominal power level of 28.5 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.

This product is intended for use with NEC Part Number NL128102AC28-01

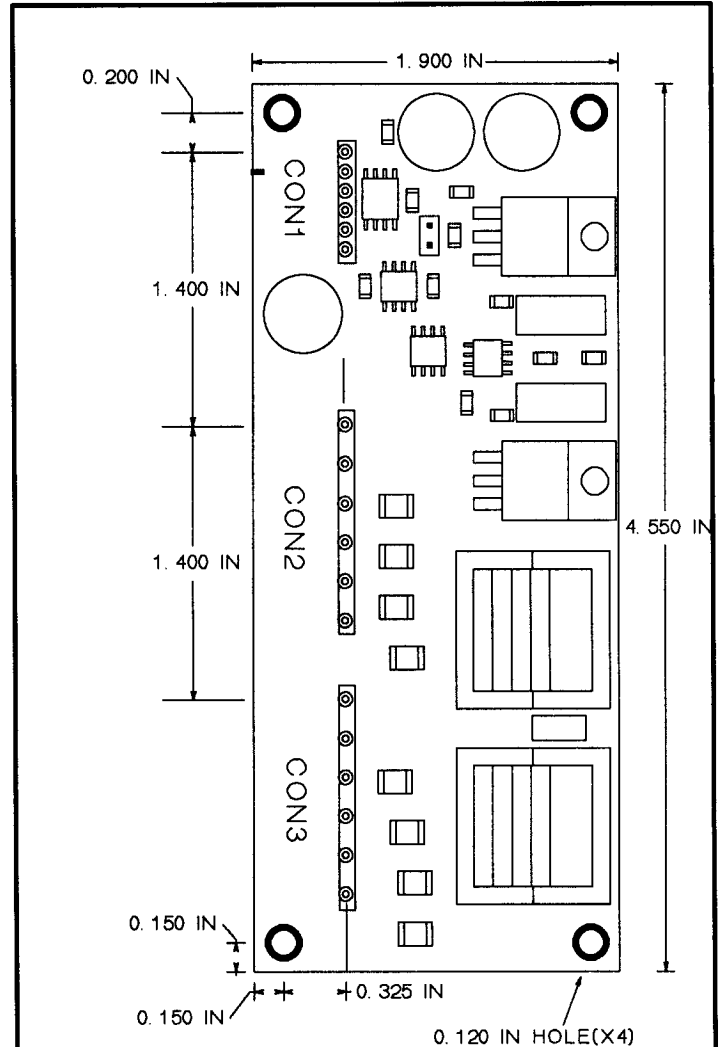
### Specifications:

- Vin = +12V +/- 10%
- CCFL strike voltage = 1800Vrms @ Vin=12V
- CCFL tube current = 5 mA/tube @ 100% intensity/Vin=12V
- Recommended CCFL sustaining voltage = 630Vrms - 770Vrms
- Nominal tube current frequency = 33khz +/- 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

### Additional control capability:\*

- Supports multiple units ie:Master/Slave(s)
- Synchronization to display frame-rate
- Low power sleep-mode and soft-start
- UL 1950 approval pending

\* Please contact factory for information



PROFILE = 0.575 IN

CON1  
MOLEX 22-28-4060

CON2(CON3)  
MOUNTED ON BACK OF PCB  
MOLEX 22-28-4110

| PIN # |          | PIN # |             |
|-------|----------|-------|-------------|
| 1     | +12V     | 1     | CCFL 4(8)   |
| 2     | GND      | 2     | NC          |
| 3     | ENABLE   | 3     | CCFL 3(7)   |
| 4     | LOGIC HI | 4     | NC          |
| 5     | VCNTL    | 5     | CCFL 2(6)   |
| 6     | PWM OUT  | 6     | NC          |
|       |          | 7     | CCFL 1(5)   |
|       |          | 8     | NC          |
|       |          | 9     | NC          |
|       |          | 10    | NC          |
|       |          | 11    | CCFL COMMON |