

APPLIED CONCEPTS INC.

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AC5-12-1151

PRODUCT DATA SHEET

1/15/02

CCFL INVERTER

(For Multiple Tube Applications)

The AC5-12-1151 is designed to power 10 CCFL's to a nominal power level of 35 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 20.1 inch NEC Part Number NL128102AC31-01.

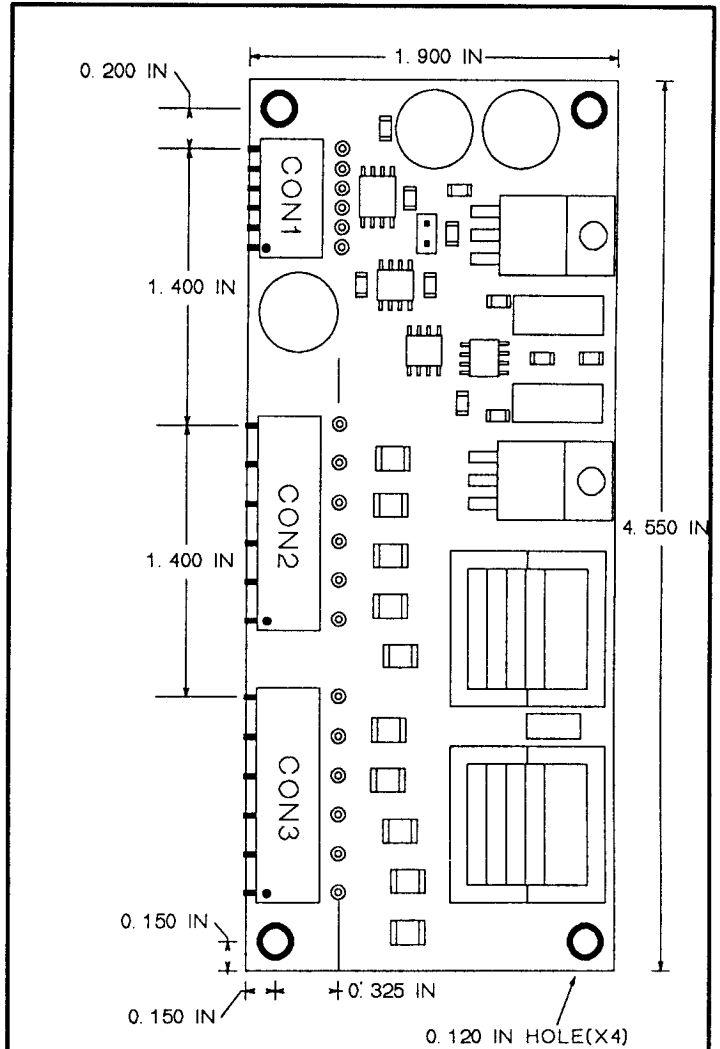
Specifications:

- Vin = +12V +/- 10%
- CCFL strike voltage = 1800Vrms @ Vin=12V
- CCFL tube current = 5.0mA/tube @ 100% intensity/Vin=12V)
- Recommended CCFL sustaining voltage = 625Vrms - 775Vrms
- Nominal tube current frequency = 37khz +/- 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
- 2 GND
- 3 ENABLE
- 4 LOGIC HI
- 5 VCNTL
- 6 PWM OUT

- 1 CCFL 5(10)
- 2 NC
- 3 CCFL 4(9)
- 4 NC
- 5 CCFL 3(8)
- 6 NC
- 7 CCFL 2(7)
- 8 NC
- 9 CCFL 1(6)
- 10 NC
- 11 CCFL COMMON