

APPLIED CONCEPTS INC.

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AC5-12-1029

PRODUCT DATA SHEET

CCFL INVERTER

(For Multiple Tube Applications)

3/14/00

The AC5-12-1029 is designed to power 8 CCFL's to a nominal power level of 25 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.

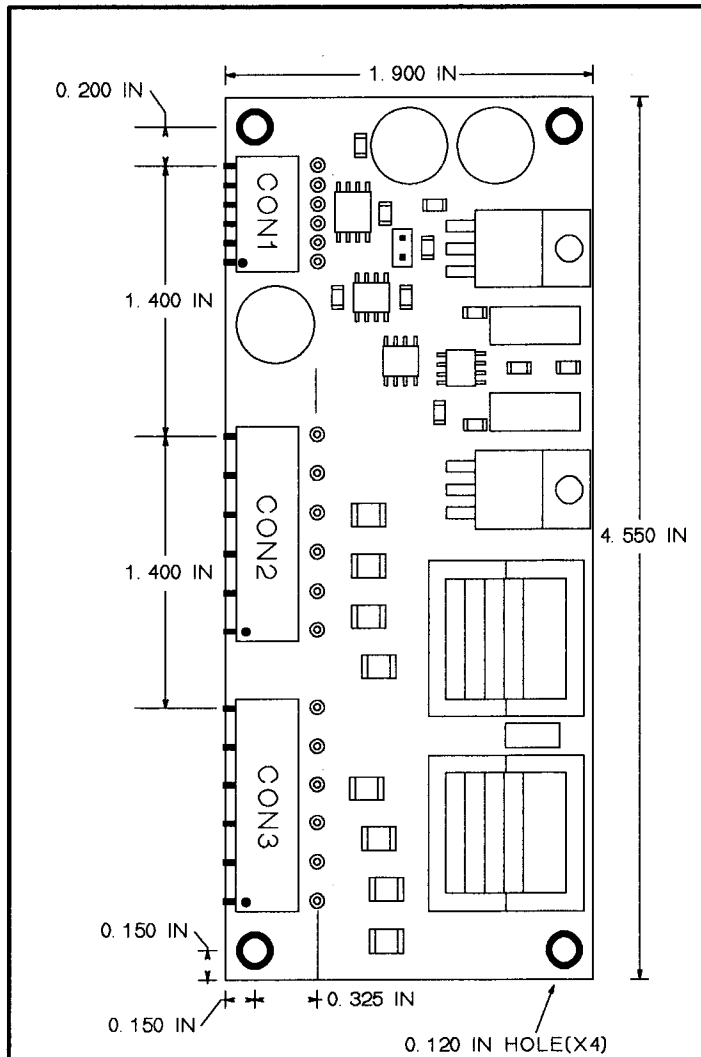
Specifications:

- Vin = +12V +/- 10%
- CCFL strike voltage = 1200Vrms @ Vin=12V
- CCFL tube current = 8.0mA/tube @ 100% intensity/Vin=12V)
- Recommended CCFL sustaining voltage = 300Vrms - 475Vrms
- Nominal tube current frequency = 53khz +/- 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 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 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 |