

**APPLIED
CONCEPTS INC.**

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AC2-12-1049

PRODUCT DATA SHEET

CCFL INVERTER

(For Multiple Tube Applications)

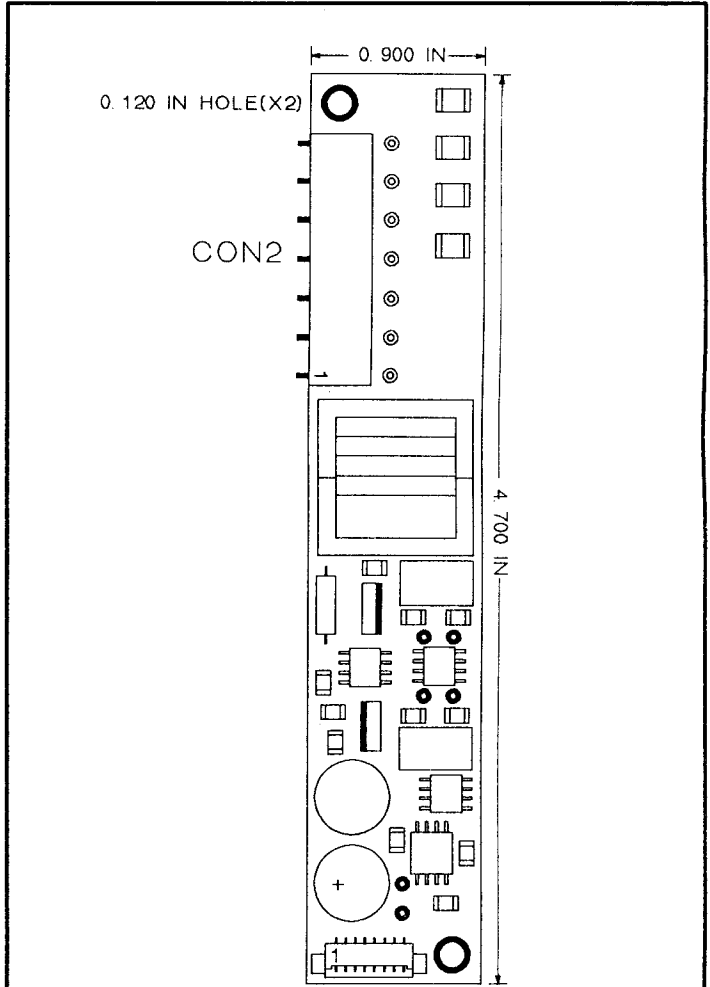
8/7/00

The AC2-12-1049 is designed to power 4 CCFL's to a nominal power level of 15 watts.

Intensity control (0-100%) is accomplished by the user providing a variable dc level of 0V(off) to 5V(full-on) at pin 6 of CON1.

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

All outputs are open and short circuit protected.



Specifications:

- Vin = +12V +/- 10%
- CCFL strike voltage = 1500Vrms @ Vin=12V
- CCFL tube current = 7.5mA/tube @ 100% intensity/Vin=12V)
- Recommended CCFL sustaining voltage = 400Vrms - 600Vrms
- Nominal tube current frequency = 57khz +/- 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 8 of CON1

PROFILE < 0.575 IN

Additional control capability:*

- UL 1950 recognition pending
- Synchronization to display frame-rate
- Low power sleep-mode and soft-start

* Please contact factory for information

INPUT CONNECTOR
CON1
MOLEX 53261-0890

OUTPUT CONNECTOR
CON2
MOLEX 22-28-1130

| PIN # | FUNCTION | PIN # | FUNCTION |
|-------|-------------|-------|-------------|
| 1 | +12V(PWR) | 1 | CCFL COMMON |
| 2 | +12V(PWR) | 2 | NC |
| 3 | GND(PWR) | 3 | NC |
| 4 | GND(PWR) | 4 | NC |
| 5 | ENABLE | 5 | NC |
| 6 | VCNTL | 6 | NC |
| 7 | TBD/+5V OUT | 7 | CCFL4 |
| 8 | PWM OUT | 8 | NC |
| | | 9 | CCFL3 |
| | | 10 | NC |
| | | 11 | CCFL2 |
| | | 12 | NC |
| | | 13 | CCFL1 |