



APPLIED CONCEPTS INC.

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AC-1439

PRODUCT DATA SHEET

09/19/03

CCFL INVERTER

(For Single Tube Applications)

The AC-1439 is designed to drive 1 CCFL to a nominal current level of 6.5mA.

Intensity control (0-100%) is accomplished by the user providing a variable dc level of 0V(off) to 5V(full-on) at pin 3 of CON1.

A +5V level is available at pin 4 of CON1 for powering the high-side of the intensity control potentiometer.

The lamp output is open and short circuit protected.

Specifications:

- Vin = +12V +/- 10%
- CCFL strike voltage = 1600Vrms @ Vin=12V
- CCFL tube current = 6.5mA/tube @ 100% intensity/Vin=12V
- Recommended CCFL sustaining voltage = 400Vrms - 600Vrms
- Nominal tube current frequency = 40kHz +/- 10%
- Nominal pwm frequency = 98Hz +/- 3%
- Pwm duty cycle range = 0 to 100%
- Average electrical efficiency >87%

Additional control capability:*

- Enable/Disable function
- Simple 1 or 2 button intensity control
- CDS ambient light sensor control
- Synchronization to display frame-rate capable
- Two-wire(variable resistance) intensity control
- Serial communication control

* Please contact factory for information

