



APPLIED CONCEPTS INC.

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AC7-12-1455

PRODUCT DATA SHEET

12/17/03

CCFL INVERTER (For Dual Tube Applications)

The AC7-12-1455 is designed to drive 2 CCFLs to a nominal current level of 8.0mA/tube.

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.

Enable function (+5V on, 0V off) is provided on pin 4 of CON1

The lamp outputs are open and short circuit protected.

Specifications:

- Vin = +12V +/- 10%
- CCFL strike voltage = 1400Vrms @ Vin=12V
- CCFL tube current =8.0mA/tube @ 100% intensity/Vin=12V
- Recommended CCFL sustaining voltage = 400Vrms - 600Vrms
- Nominal tube current frequency = 75khz +/- 10%
- Nominal pwm frequency = 98Hz +/- 3%
- Pwm duty cycle range = 0 to 100%
- Average electrical efficiency >87%

Additional control capability:*

- 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

