



**APPLIED  
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**AC7-12-1391**

*PRODUCT DATA SHEET*

06/18/03

**CCFL INVERTER**  
*(For Dual Tube Applications)*

The AC7-12-1391 is designed to drive 2 CCFL'S to a nominal current level of 8.0mA per tube.

Intensity control (0-100%) is accomplished by the user providing a variable dc level of 4.2V(off) to 0V(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.

All outputs open and short circuit protected.

**Specifications:**

$V_{in} = +12V \pm 10\%$

CCFL strike voltage = 1300Vrms @  $V_{in}=12V$

CCFL tube current = 8.0mA/tube @ 100% intensity/ $V_{in}=12V$

Recommended CCFL sustaining voltage = 400Vrms - 500Vrms

Nominal tube current frequency = 71Khz +/- 10%

Nominal pwm frequency = 98Hz +/- 3%

Pwm duty cycle range = 0 to 100%

Average electrical efficiency >88%

**Additional control capability:\***

- Enable/Disable function
- Simple 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

