



**APPLIED
CONCEPTS INC.**

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AC7-12-1393

CCFL INVERTER
(For Dual Tube Applications)

PRODUCT DATA SHEET

4/6/09

The AC7-12-1393 is designed to drive 2 CCFL'S to a nominal current level of 8.5mA per 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 control (active high) is accomplished at pin 4 of CON1.

All outputs open and short circuit protected.

Specifications:

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

CCFL strike voltage = 1700Vrms @ $V_{in}=12V$

CCFL tube current = 8.5mA/tube @ 100% intensity/ $V_{in}=12V$)

Recommended CCFL sustaining voltage = 530Vrms - 730Vrms

Nominal tube current frequency = 80Khz +/- 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

