



APPLIED CONCEPTS INC.

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AC4-12-1481

PRODUCT DATA SHEET

CCFL INVERTER

(For Multiple Tube Applications)

08/17/04

The AC4-12-1481 is designed to power 4 CCFL's to a nominal power level of 18 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:

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

CCFL strike voltage = 1800Vrms @ $V_{in}=12V$

CCFL tube current = 6.5mA/tube @ 100% intensity/ $V_{in}=12V$

Recommended CCFL sustaining voltage = 600Vrms - 750Vrms

Nominal tube current frequency = 42kHz $\pm 10\%$

Nominal pwm frequency = 150Hz $\pm 3\%$

Pwm duty cycle range = 0 to 100%

Average electrical efficiency >90%

External PWM signal input control via enable pin (when in "slave" mode)

Additional control/capability:*

Supports multiple units ie: Master/Slave(s)

Synchronization to display frame-rate

* Please contact factory for information

