

APPLIED CONCEPTSING.

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CCFL INVERTER

(For Multiple Tube Applications)

The AC2-12-1224 is designed to power 2 or 4 CCFL's to a nominal power level of up to 20 watts.

Intensity control (0-100%) is accomplished by the user providing a variable dc level (Vcntl) at pin 6 of CON1. The dimming polarity of Vcntl is determined by the state of pin 5 of CON1.

If pin 5 of CON1 is HI (+5V), Vcntl response is as follows: 0V=full-off, +4.85V=full-on. Conversely, if pin 5 of CON1 is LO (0V), Vcntl response is as follows: 0v=full-on, 4.85V=full-off.

+5V @ 5mA max is available as a convenience to the user on Pin 8 of CON1

A vertical sync signal is accepted @ pin 7 of CON1 for locking the pwm frequency to the vertical refresh rate.

All outputs are open and short circuit protected

Specifications:

Vin = +12V +/- 10%

CCFL strike voltage = 1700Vrms @ Vin=12V

CCFL tube current = 7.0mA/tube @ 100% intensity/Vin=12V)

Recommended CCFL sustaining voltage = 525Vrms - 725Vrms

Nominal tube current frequency = 46khz +/- 10%

PWM Frequency = Vsync(60Hz nominal)

VSYNC input requirements = 60Hz nominal, 5V negative going (NOTE: Absence of Vsync will cause the unit to free-run @ 98Hz nominal. Also Vsync input should be tied to ground if not used.)

Pwm duty cycle range = 0 to 100%

Average electrical efficiency >90%

AC2-12-1224

PRODUCT DATA SHEET

02/02/04

