

APPLIED CONCEPTS INC.

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CCFL INVERTER

(For Multiple Tube Applications)

The AC2-12-1147 is designed to power 4 CCFL's to a nominal power level of 15 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).

This unit features a second analog input(pin 8 of CON1) designed to accept an output from a National temperature sensor LM50C. Maximum pwm duty-cycle will decrease as sensed temperature increases(See Specifications).

All outputs are open and short circuit protected.

Specifications:

Vin = +12V +/- 10%

CCFL strike voltage = 1500Vrms @ Vin=12V

CCFL tube current = 7.5mA/tube @ 100% intensity/Vin=12V)

Recommended CCFL sustaining voltage = 400Vrms - 600Vrms

Nominal tube current frequency = 57khz +/- 10%

Nominal pwm frequency = 98Hz +/- 3%

Pwm duty cycle range = 0 to 100%

Average electrical efficiency >90%

Temperature(Voltage) vs Max Duty-Cycle:

Temp(Deg-C)	Sensor(V)	Max Duty(%)
< 50.0	< 0.99	100
50.0 - 53.99	1.00 - 1.0399	75
54.0 - 57.99	1.04 - 1.0799	50
54.0 - 61.99	1.08 - 1.1199	25

Temperature hysteresis = 2Deg-C(20mV)

AC2-12-1147

PRODUCT DATA SHEET

6/26/00

