

# APPLIED CONCEPTS INC.

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# AC2-12-1443

## CCFL INVERTER

*(For Multiple Tube Applications)*

## PRODUCT DATA SHEET

11/18/03

The AC2-12-1443 is designed to power 4 CCFL's to a nominal power level of 13.8 watts.

Intensity control (0-100%) is accomplished by the user providing a variable dc level of 2.5V(off) to 0V(full-on) at pin 6 of CON1.

Enable control is accomplished at pin 5 of CON1 (Logic "1">>off, Logic "0">>on).

All outputs are open and short circuit protected.

### Specifications:

Vin = +12V +/- 10%

CCFL strike voltage = 1600Vrms @ Vin=12V

CCFL tube current = 6.3 mA/tube @ 100% intensity/Vin=12V

Recommended CCFL sustaining voltage = 450Vrms - 650Vrms

Nominal tube current frequency = 60khz +/- 10%

Nominal pwm frequency = 98Hz +/- 3%

Pwm duty cycle range = 0 to 100%

Average electrical efficiency >90%

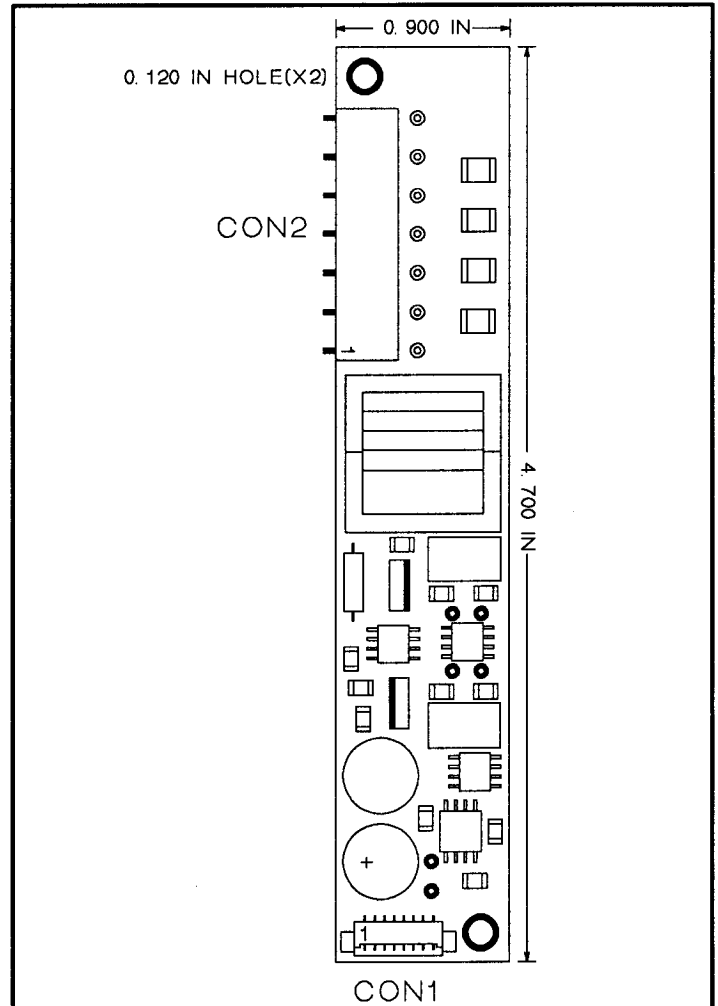
External PWM signal input control via enable pin

Output PWM sync signal @ pin 8 of CON1

### Additional control capability:\*

Supports multiple units ie:Master/Slave(s)

\* Please contact factory for information



PROFILE < 0.575 IN

INPUT CONNECTOR  
CON1  
MOLEX 53261-0890

OUTPUT CONNECTOR  
CON2  
MOLEX 22-28-1130

PIN #	FUNCTION	PIN #	FUNCTION
1	+12V(PWR)	1	CCFL COMMON
2	+12V(PWR)	2	NC
3	GND(PWR)	3	CCFL4
4	GND(PWR)	4	NC
5	ENABLE	5	CCFL3
6	VCNTL	6	NC
7	LOGIC HI	7	CCFL2
8	PWM OUT	8	NC
		9	CCFL1
		10	NC
		11	NC
		12	NC
		13	NC