

APPLIED CONCEPTS INC.

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AC2-12-1166

PRODUCT DATA SHEET

9/6/00

CCFL INVERTER

(For Multiple Tube Applications)

The AC2-12-1166 is designed to power 4 CCFL's to a nominal power level of 14.5 watts.

Intensity of the CCFL's is controlled by a CDS light sensor connected between pins 6 & 7 of CON1. Full intensity can be achieved by connecting pins 6 & 7 of CON1 together if desired.

Enable control is accomplished at pin 5 of CON1 (0V=off, 5V=on). This pin should be tied to pin 7 of CON1 if not implemented.

All outputs are open and short circuit protected.

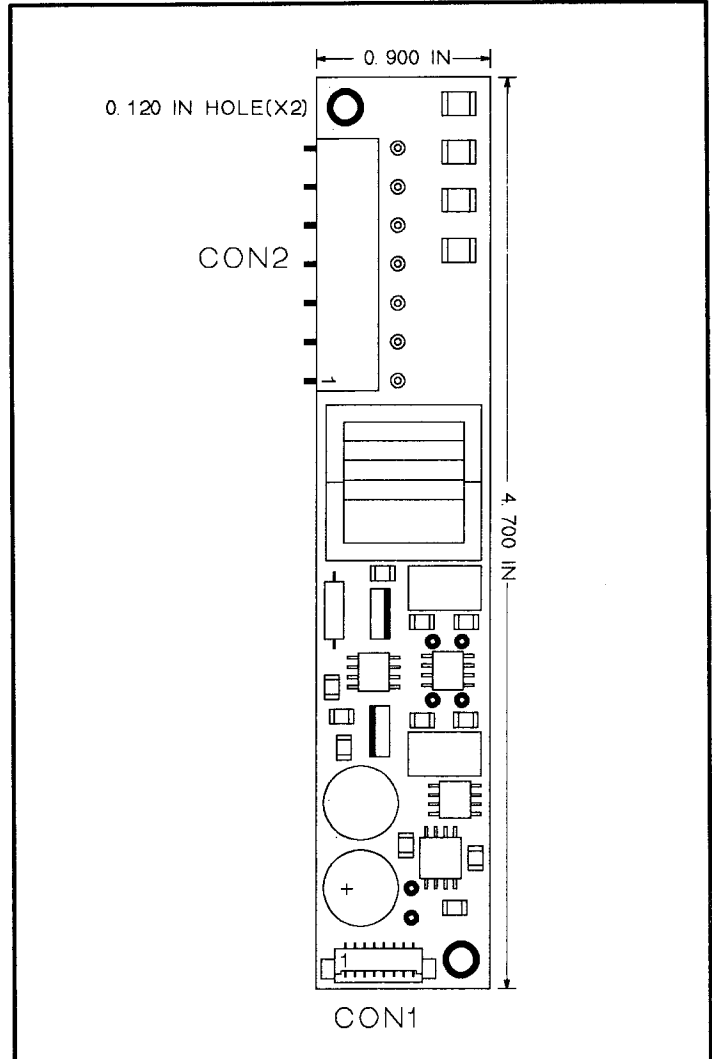
Specifications:

- Vin = +12V +/- 10%
- CCFL strike voltage = 1400Vrms @ Vin=12V
- CCFL tube current = 6.0mA/tube @ 100% intensity/Vin=12V)
- Recommended CCFL sustaining voltage = 500Vrms - 700Vrms
- Nominal tube current frequency = 55khz +/- 10%
- Nominal pwm frequency = 98Hz +/- 3%
- Pwm duty cycle range = 50 to 100%
- Average electrical efficiency >90%
- Output PWM sync signal @ pin 8 of CON1

Additional control capability:*

- UL 1950 recognition pending
- Synchronization to display frame-rate

* 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	NC
4	GND(PWR)	4	NC
5	ENABLE	5	NC
6	CDS CELL	6	NC
7	CDS CELL	7	CCFL4
8	PWM OUT	8	NC
		9	CCFL3
		10	NC
		11	CCFL2
		12	NC
		13	CCFL1