

**APPLIED
CONCEPTS INC.**

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AC2-12-1174

PRODUCT DATA SHEET

11/29/00

CCFL INVERTER

(For Multiple Tube Applications)

The AC2-12-1174 is designed to power 4 CCFL's to a nominal power level of 20 watts.

Intensity control (0-100%) is accomplished by the user providing a variable dc level at pin 6 of CON1. Polarity selectable at power on via pin 8.

Enable control is accomplished at pin 5 of CON1 (0V=off, 5V=on).

All outputs are open and short circuit protected.

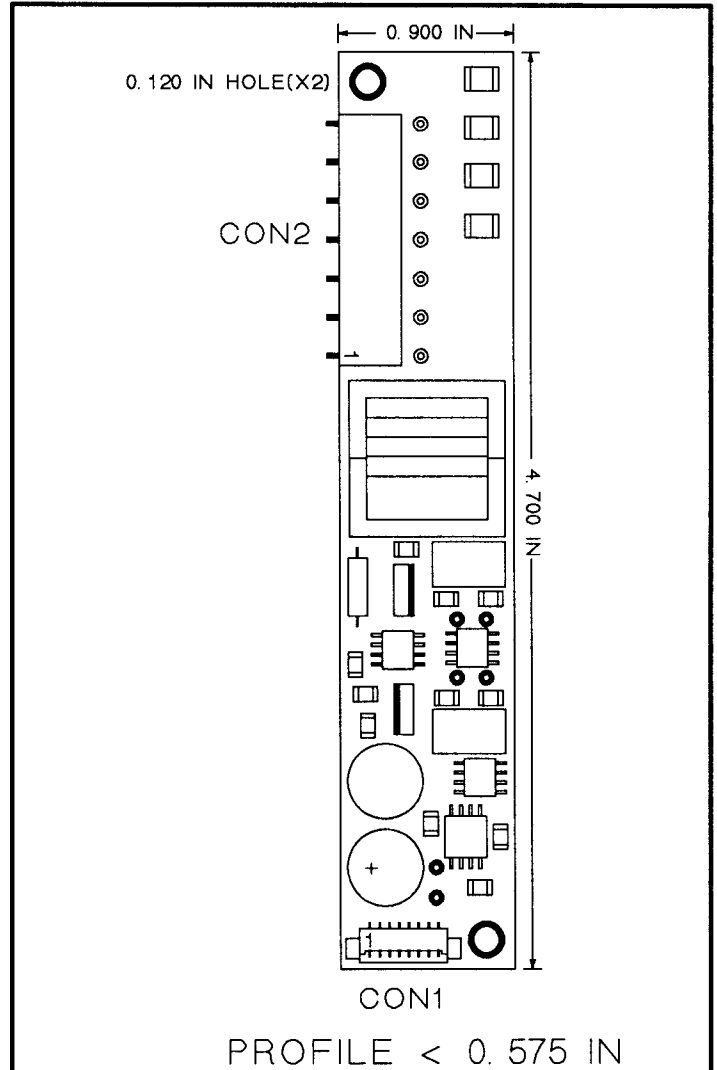
Specifications:

- Vin = +12.00V +/- 10%
- CCFL strike voltage = 1600Vrms @ Vin=12.00V
- CCFL tube current = 8 mA/tube @ 100% intensity/Vin=12.00
- Recommended CCFL sustaining voltage = 500Vrms - 700Vrms
- Nominal tube current frequency = 62khz +/- 10%
- Nominal pwm frequency = 98Hz +/- 3%
- Polarity of PWM control signal pin (6) is Programable at power on via pin 8 .
- Pwm duty cycle range = 0 to 100%
- Average electrical efficiency >90%
- External PWM signal input control via enable pin

Additional control capability:*

Low power sleep-mode and soft-start

* Please contact factory for information



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	VCNTL	6	NC
7	TBD/+5V OUT	7	CCFL4
8	VCNTL Polarity	8	NC
	1>> 5V-FULL ON	9	CCFL3
	0V-OFF	10	NC
	0>> 0V- FULL ON	11	CCFL2
	5V- OFF	12	NC
		13	CCFL1