

**APPLIED  
CONCEPTS INC.**

397 Route 281 - P.O. BOX 453  
Tully, New York 13159-0453  
Phone: (315) 696-6676 Fax: (315) 696-9923  
www.acipower.com

**AC2-11-1176**

*PRODUCT DATA SHEET*

11/29/00

**CCFL INVERTER**

*(For Multiple Tube Applications)*

The AC2-11-1176 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:**

$V_{in} = +11.75V \pm 10\%$

CCFL strike voltage = 1600Vrms @  $V_{in}=11.75V$

CCFL tube current = 8 mA/tube @ 100% intensity/ $V_{in}=11.75$

Recommended CCFL sustaining voltage = 500Vrms - 700Vrms

Nominal tube current frequency = 62kHz  $\pm 10\%$

Nominal pwm frequency = 98Hz  $\pm 3\%$

Polarity of PWM control signal pin (6) is Programable at power on via pin 8 .

Pwm duty cycle range = 0 to 100%

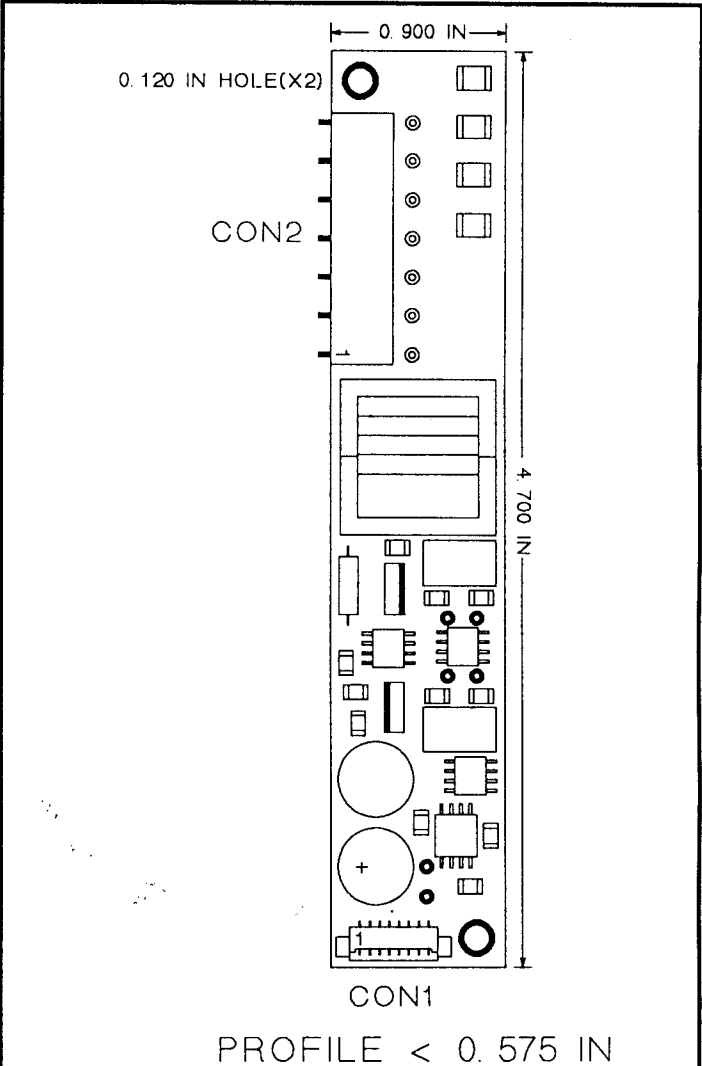
Average electrical efficiency >90%

External PWM signal input control via enable pin

**Additional control capability:\***

Low power sleep-mode and soft-start

\* Please contact factory for information



PROFILE < 0.575 IN

INPUT CONNECTOR CON1 MOLEX 53261-0890		OUTPUT CONNECTOR CON2 MOLEX 22-28-1130	
PIN #	FUNCTION	PIN #	FUNCTION
1	+11.75V(PWR)	1	CCFL COMMON
2	+11.75V(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