

**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

**AC5-12-1051**

*PRELIMINARY DATA SHEET*

3/30/00

**CCFL INVERTER**

*(For Multiple Tube Applications)*

The AC5-12-1051 is designed to power 5 CCFL's to a nominal power level of 27 watts.

Intensity control (0-100%) is accomplished by the user providing a variable dc level of 0V(off) to 5V(full-on) at pin 5 of CON1.

Enable control is accomplished at pin 3 of CON1 (0V=off, 5V=on).

All outputs are open and short circuit protected.

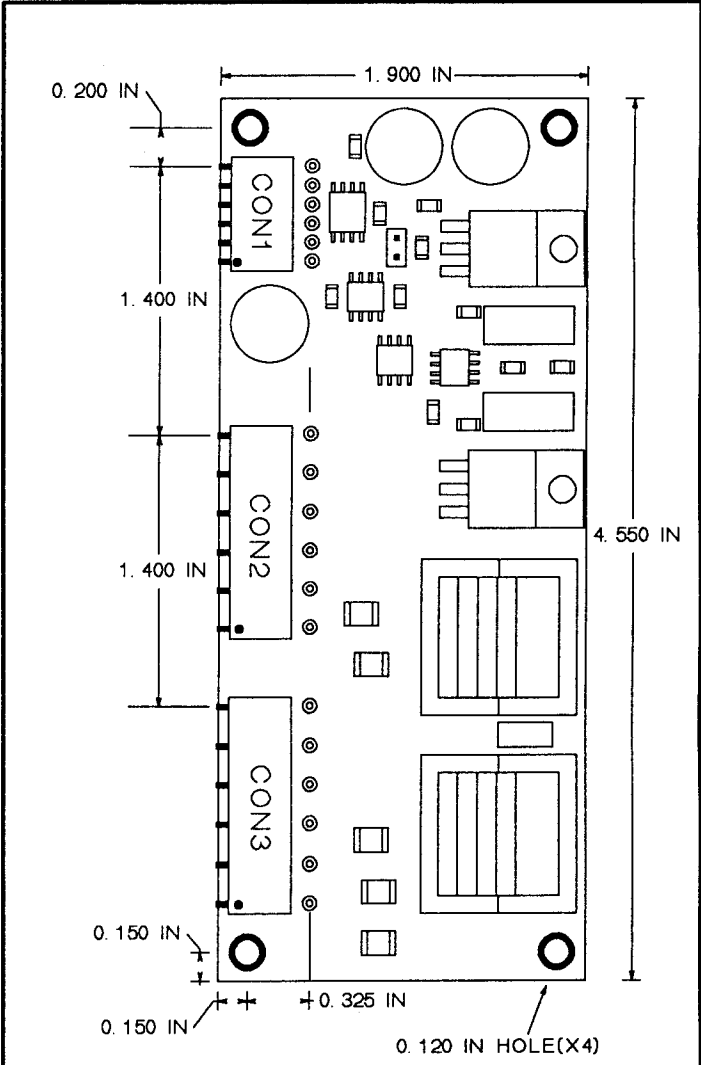
**Specifications:**

- Vin = +12V +/- 10%
- CCFL strike voltage = 1800Vrms @ Vin=12V
- CCFL tube current = 7.5mA/tube @ 100% intensity/Vin=12V)
- Recommended CCFL sustaining voltage = 630Vrms - 770Vrms
- Nominal tube current frequency = 50khz +/- 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 6 of CON1

**Additional control capability:\***

- Supports multiple units ie:Master/Slave(s)
- Synchronization to display frame-rate
- Low power sleep-mode and soft-start
- UL 1950 approval pending

\* Please contact factory for information



PROFILE = 0.575 IN

CON1  
MOLEX 22-28-1063

CON2(CON3)  
MOLEX 22-28-1113

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