

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

AC5-12-1187

CCFL INVERTER

(For Multiple Tube Applications)

PRODUCT DATA SHEET

11/15/00

The AC5-12-1187 is designed to power 8 CCFL's to a nominal power level of 22 watts.

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

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

All outputs are open and short circuit protected.

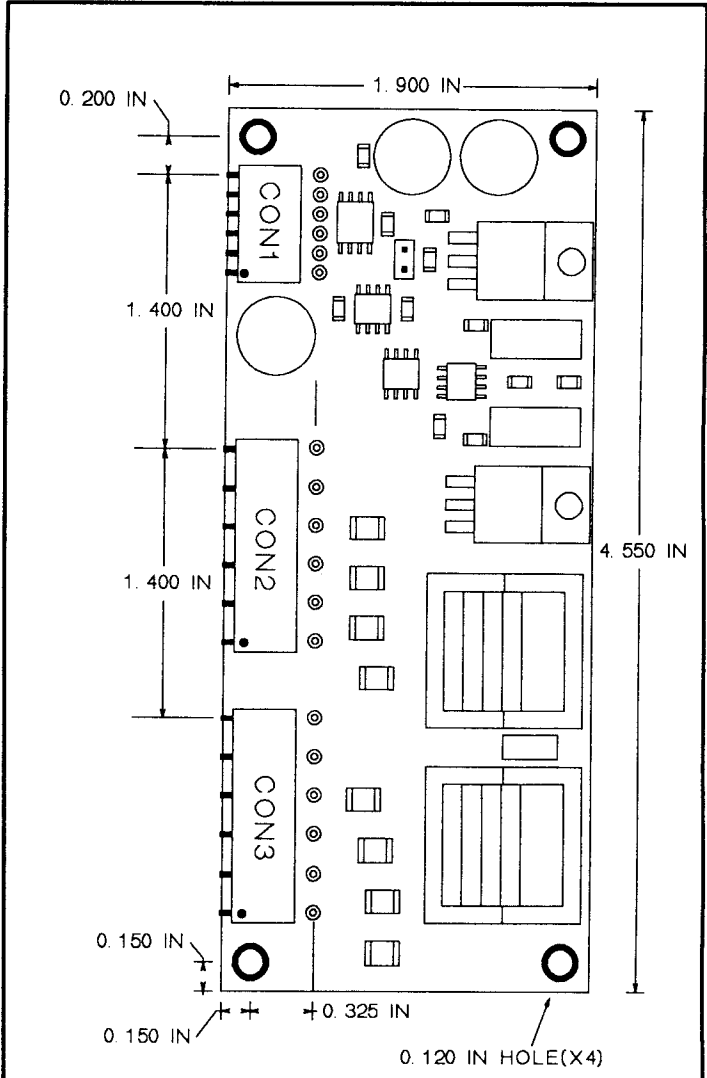
Specifications:

- Vin = +12V +/- 10%
- CCFL strike voltage = 1300Vrms @ Vin=12V
- CCFL tube current = 5.0mA/tube @ 100% intensity/Vin=12V
- Recommended CCFL sustaining voltage = 400Vrms - 700Vrms
- Nominal tube current frequency = 41khz +/- 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 recognized (File No. E201813)

* 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 4(8)
2	GND	2	NC
3	ENABLE	3	CCFL 3(7)
4	LOGIC HI	4	NC
5	VCNTL	5	CCFL 2(6)
6	PWM OUT	6	NC
		7	CCFL 1(5)
		8	NC
		9	NC
		10	NC
		11	CCFL COMMON