

**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

AC5-12-1164

CCFL INVERTER

(For Multiple Tube Applications)

PRODUCT DATA SHEET

8/14/00

The AC5-12-1164 is designed to power 10 CCFL's to a nominal power level of 20 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:

$V_{in} = +12V \pm 10\%$

CCFL strike voltage = 1100Vrms @ $V_{in}=12V$

CCFL tube current = 6.0mA/tube @ 100% intensity/ $V_{in}=12V$

Recommended CCFL sustaining voltage = 200Vrms - 450Vrms

Nominal tube current frequency = 46kHz $\pm 10\%$

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

Pwm duty cycle range = 0 to 100%

Average electrical efficiency >90%

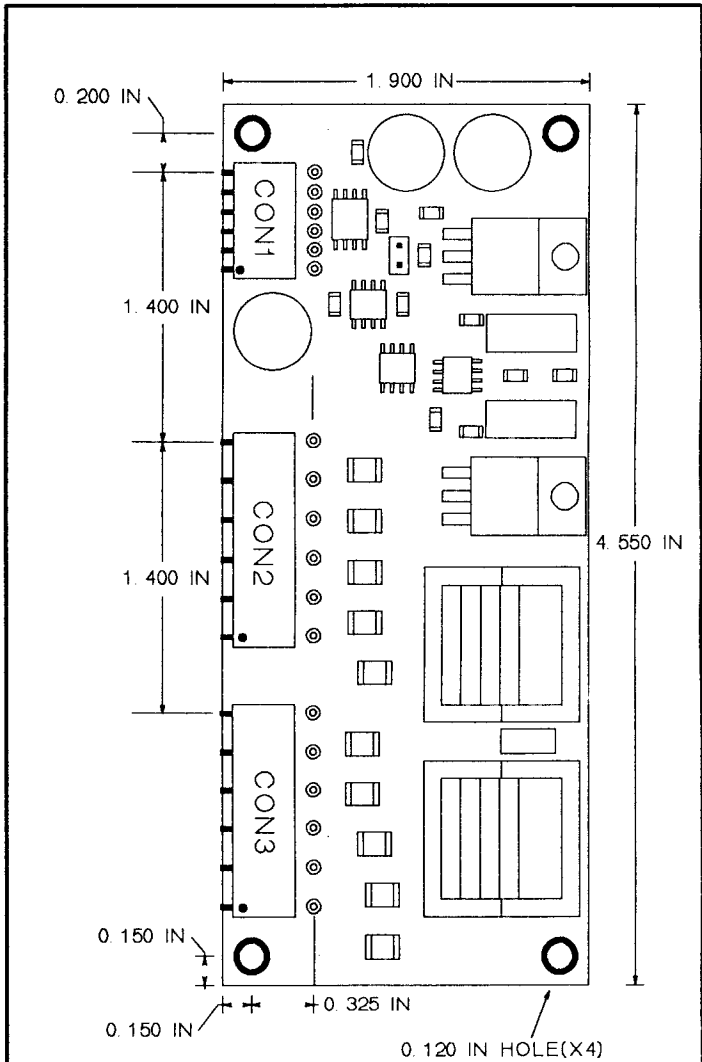
External PWM signal input control via enable pin

Output PWM sync signal @ pin 6 of CON1 (for master/slave operation).

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