

# 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](http://www.acipower.com)

# AC5-12-1156

## PRODUCT DATA SHEET

01/23/03

## CCFL INVERTER

(For Multiple Tube Applications)

The AC5-12-1156 is designed to power 8 CCFL's to a nominal power level of 28.5 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.

This product is intended for use with the 18.1 inch NEC Part Number NL128102AC28-01

### Specifications:

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

CCFL strike voltage = 1800Vrms @  $V_{in}=12V$

CCFL tube current = 5 mA/tube @ 100% intensity/ $V_{in}=12V$

Recommended CCFL sustaining voltage = 630Vrms - 770Vrms

Nominal tube current frequency = 33kHz  $\pm 10\%$

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

### Additional control capability:\*

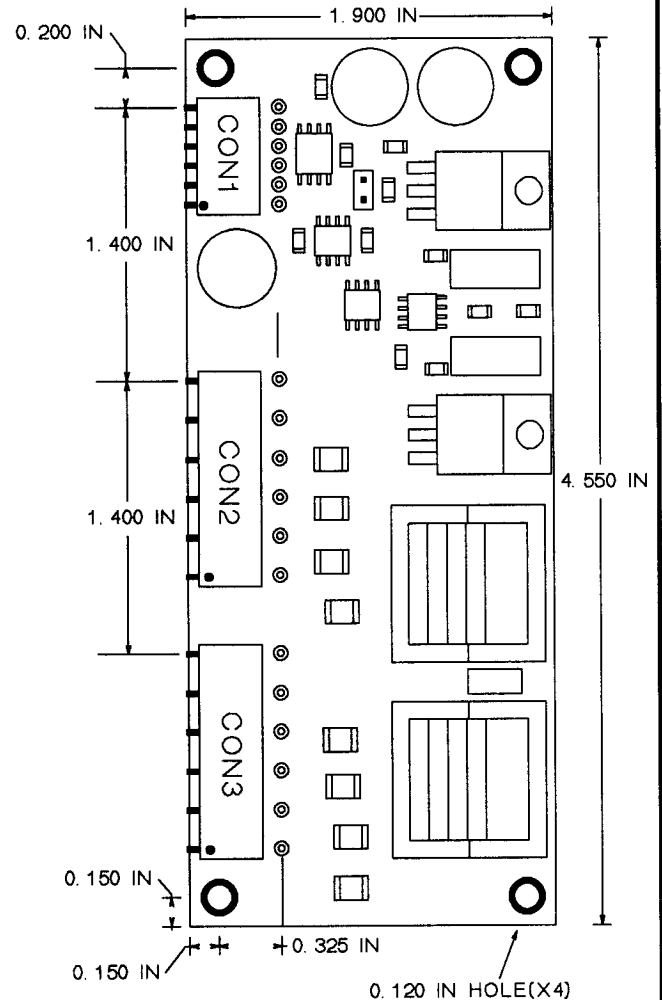
Supports multiple units ie:Master/Slave(s)

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  
2 GND  
3 ENABLE  
4 VERT SYNC  
5 VCNTL  
6 PWM OUT

1 CCFL 8 (4)  
2 NC  
3 CCFL 7 (3)  
4 NC  
5 CCFL 6 (2)  
6 NC  
7 CCFL 5 (1)  
8 NC  
9 NC  
10 NC  
11 CCFL COMMON