

APPLIED CONCEPTS INC.

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AC5-12-1178

CCFL INVERTER

(For Multiple Tube Applications)

PRELIMINARY DATA SHEET

10/3/00

The AC5-12-1178 is designed to power 6 CCFL's to a nominal power level of 29 watts.

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

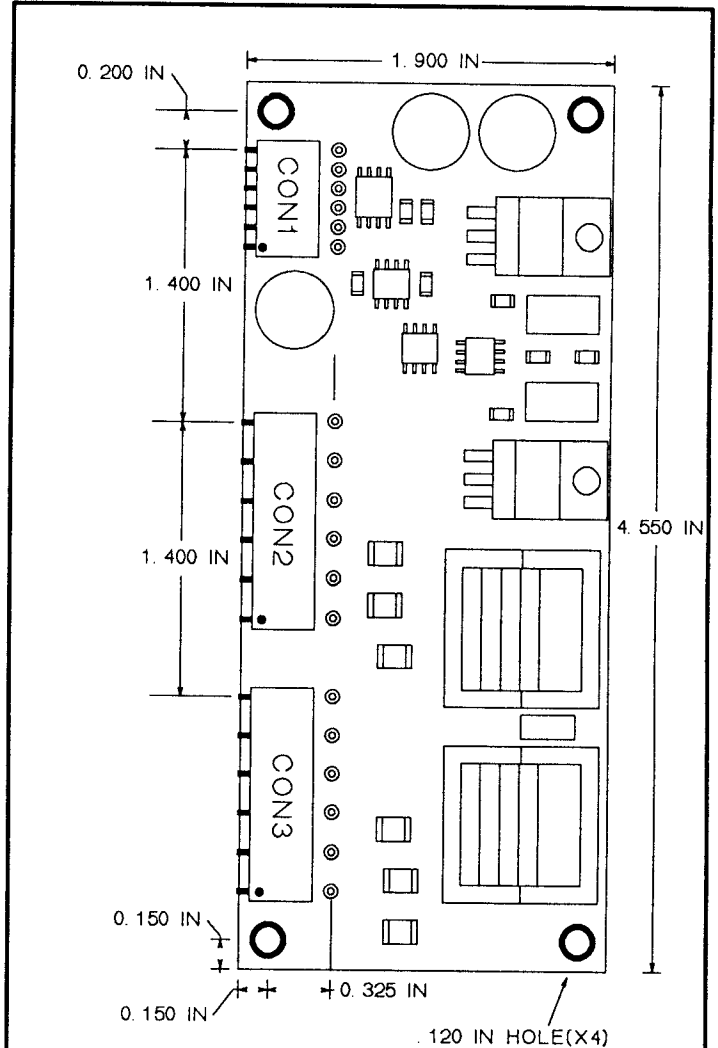
Specifications:

- Vin = +12V +/- 10%
- CCFL strike voltage = 1800Vrms @ Vin=12V
- CCFL tube current = 7.0mA/tube @ 100% intensity/Vin=12V)
- Recommended CCFL sustaining voltage = 600Vrms - 800Vrms
- Nominal tube current frequency = 49khz +/- 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

* Please contact factory for information



PROFILE = .560 IN

CON1
MOLEX 22-05-3061

CON2(CON3)
MOLEX 22-05-3111

PIN #

PIN #

1	+12V
2	GND
3	ENABLE
4	LOGIC HI
5	VCNTL
6	PWM OUT

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