

**APPLIED
CONCEPTS INC.**

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AC5-12-1018

CCFL INVERTER

(For Multiple Tube Applications)

PRODUCT DATA SHEET

8/7/00

The AC5-12-1018 is designed to power 8 CCFL's to a nominal power level of 36 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.

Meets nominal drive requirements for Landmark 16 tube backlight BL-C090A (2 inverters required)

Specifications:

Vin = +12V +/- 10%

CCFL strike voltage = 1800Vrms @ Vin=12V

CCFL tube current = 6.5mA/tube @ 100% intensity/Vin=12V)

Recommended CCFL sustaining voltage = 630Vrms - 770Vrms

Nominal tube current frequency = 44khz +/- 10%

Nominal pwm frequency = 98Hz +/- 3%

Pwm duty cycle range = 0 to 100%

Average electrical efficiency >90%

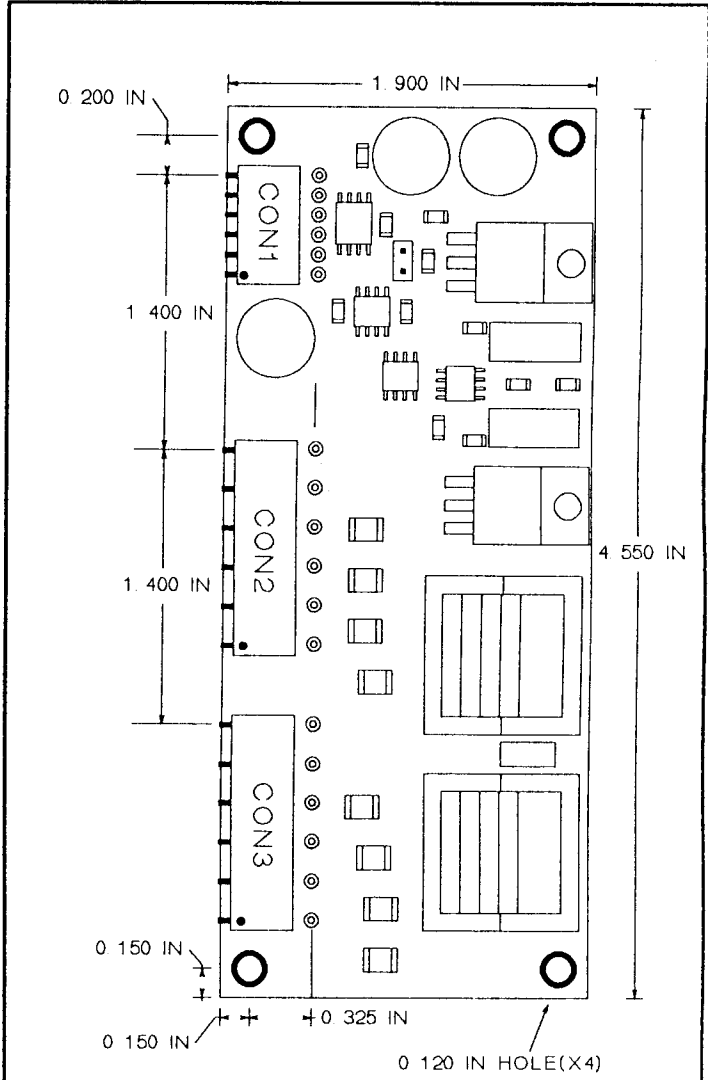
External PWM signal input control via enable pin

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