

APPLIED CONCEPTS INC.

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AC-1399A

CCFL INVERTER

(For Multiple Tube Applications)

PRODUCT DATA SHEET

11/2/04

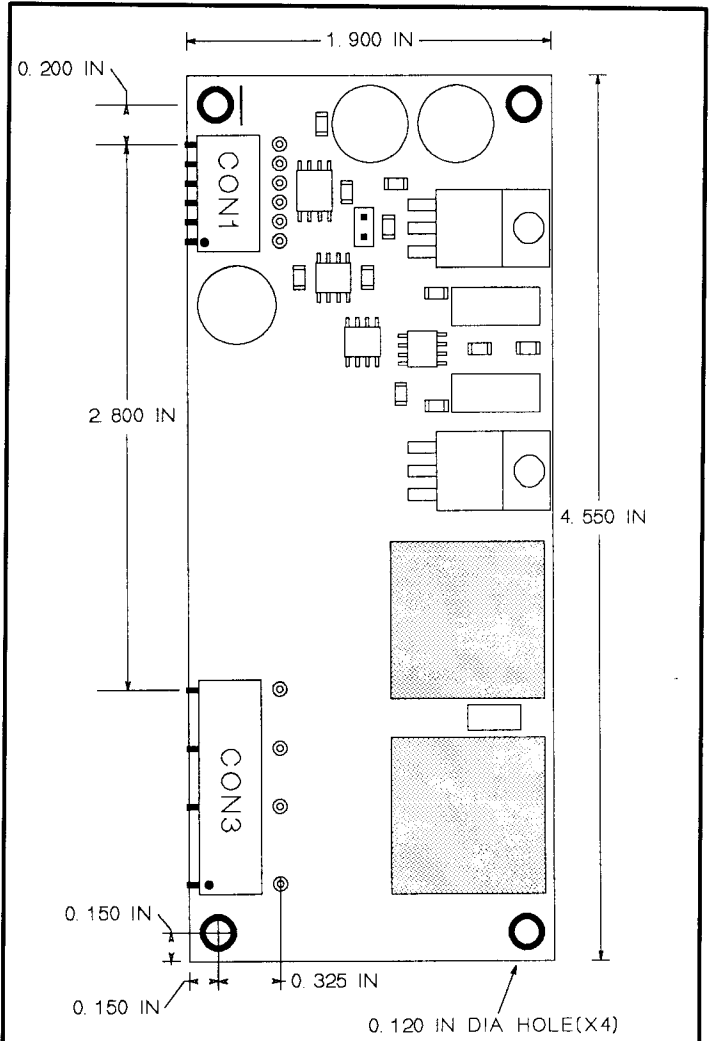
The AC-1399A is designed to power 12 CCFL's to a nominal power level of 35 watts.

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

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

Intended for use with AC-1398 lamp board with 12pF at one end of tube (11-A0103)

Designed with lower audible noise for quiet environment



PROFILE = 0.675 IN

CON1
MOLEX 22-28-1063

CON3
MOLEX 22-28-1113

PIN #		PIN #	
1	+12V	1	NC
2	GND	2	NC
3	ENABLE	3	NC
4	LOGIC HI	4	NC
5	VCNTL	5	NC
6	PWM OUT	6	NC
		7	NC
		8	CCFL OUT
		9	NC
		10	NC
		11	CCFL COMMON

Specifications:

- Vin = +12V +/- 10%
- CCFL strike voltage = 1500Vrms @ Vin=12V
- CCFL tube current = 4.4 mA/tube @ 100% intensity/Vin=12V
- Recommended CCFL sustaining voltage = 500Vrms - 700Vrms
- Nominal tube current frequency = 46khz +/- 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 (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