APPLIED CONCEPTS INC.
397 Route 281 - P.O. BOX 1175
Tully, New York 13159-1175
Phone: (315) 696-6676 Fax: (315) 696-9923
www.acipower.com

AC-1399B

CCFL INVERTER

(For Multiple Tube Applications)

2/24/12

The AC-1399B 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, containing a 12pF ballast capacitor at one end of each CCFL.

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:**

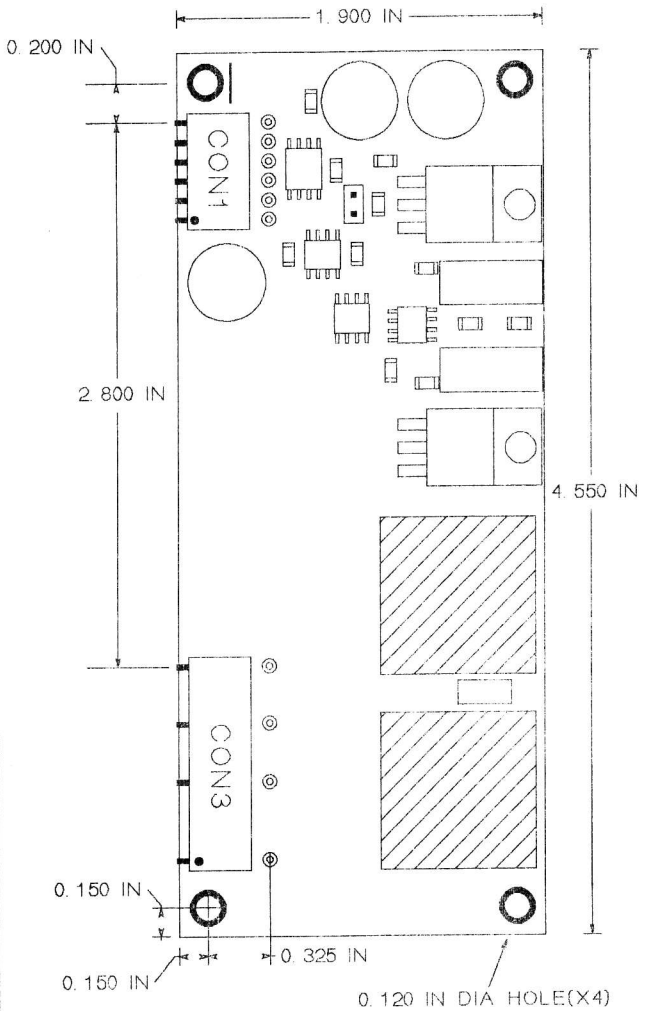
Supports multiple units ie:Master/Slave(s)

Synchronization to display frame-rate

Low power sleep-mode and soft-start

UL 1950 Recognized (File NO. E201813)

* Please contact factory for information



PROFILE = 0.675 IN

CON1
MOLEX 22-28-1063

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

CON3
MOLEX 22-28-1113

PIN #	
1	NC
2	NC
3	NC
4	NC
5	NC
6	NC
7	NC
8	CCFL OUT
9	NC
10	NC
11	CCFL COMMON

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CHANGE HISTORY

2/24/12

INVERTER PART #	DESCRIPTION	REVISION DATE
AC-1399	+ Initial Release.	4/7/03
AC-1399A	+ Encapsulated transformers T1 & T2 to reduce audible PWM dimming noise.	11/2/04
AC-1399B	+ Upgraded C3 & C4 to higher permissible AC current capability.	2/24/12