

**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

AC7-12-1391

PRODUCT DATA SHEET

06/18/03

CCFL INVERTER
(For Dual Tube Applications)

The AC7-12-1391 is designed to drive 2 CCFL'S to a nominal current level of 8.0mA per tube.

Intensity control (0-100%) is accomplished by the user providing a variable dc level of 4.2V(off) to 0V(full-on) at pin 3 of CON1.

A +5V level is available at pin 4 of CON1 for powering the high-side of the intensity control potentiometer.

All outputs open and short circuit protected.

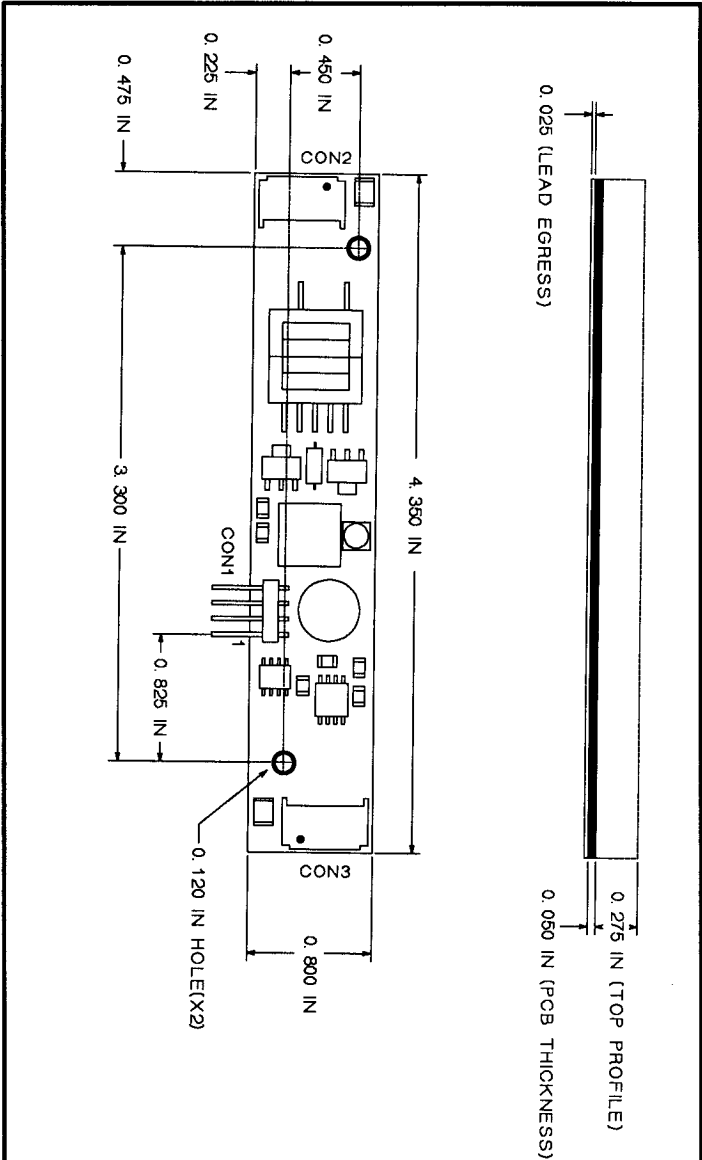
Specifications:

- Vin = +12V +/- 10%
- CCFL strike voltage = 1300Vrms @ Vin=12V
- CCFL tube current = 8.0mA/tube @ 100% intensity/Vin=12V)
- Recommended CCFL sustaining voltage = 400Vrms - 500Vrms
- Nominal tube current frequency = 71Khz +/- 10%
- Nominal pwm frequency = 98Hz +/- 3%
- Pwm duty cycle range = 0 to 100%
- Average electrical efficiency >88%

Additional control capability:*

- Enable/Disable function
- Simple button intensity control
- CDS ambient light sensor control
- Synchronization to display frame-rate capable
- Two-wire(variable resistance) intensity control
- Serial communication control

* Please contact factory for information



INPUT CONNECTOR CON1 MOLEX 22-28-8041		OUTPUT CONNECTOR CON2,CON3 JST SM03(4.0)B-BHS-1-TB	
PIN #	FUNCTION	PIN #	FUNCTION
1	+VIN	1	CCFL HOT
2	GND	2	NC
3	VCNTL	3	CCFL COLD
4	LOGIC HI OUT		