

**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

ACB-12-1242

CCFL INVERTER

(For Multiple Tube Applications)

PRODUCT DATA SHEET

2/19/02

The ACB-12-1242 is designed to power 6 CCFL's to a nominal power level of 32 watts from an input voltage of +12V.

The ACB-12-1242 features analog dimming control via a dc control level of 0V(off) to +5V(on) @ pin 7 of CON1. A dc reference voltage(+5V) is available @ pin 6 of CON1 for external use.

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

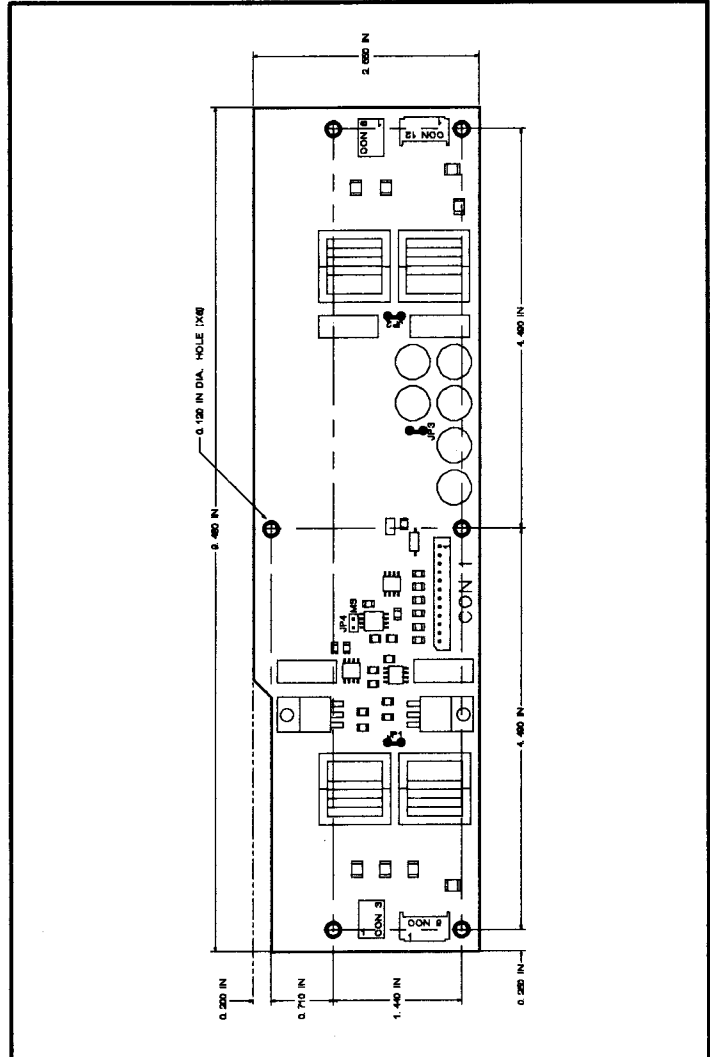
As an option, a vertical sync signal can be accepted @ pin 9 of CON1 for locking the pwm frequency to the vertical refresh rate.

All outputs are open and short circuit protected.

This inverter is designed and is direct plug-in compatible for the LG LC201V1.

Specifications:

- Vin = +12V +/- 10%
- CCFL strike voltage = 1800Vrms
- CCFL tube current = 7.0mA/tube @ 100% intensity
- Recommended CCFL sustaining voltage = 650Vrms - 850Vrms
- Nominal tube current frequency = 43khz +/- 10%
- Nominal pwm frequency(free-run) = 98Hz +/- 3%
- Pwm duty cycle range = 0 to 100%
- Maximum reference voltage current draw(CON1, pin 6) = 10mA
- VSYNC input requirements = 60Hz nominal, 5V negative going (NOTE: Absence of Vsync will cause the unit to free-run @ 98Hz nominal. Also Vsync input should be tied to ground if not used.
- Average electrical efficiency > 90%



PROFILE < 0.575 IN

INPUT CONNECTOR
CON1
MOLEX 22-03-5125

OUTPUT CONNECTOR(S)
CON3,CON6
JST SM02B-BHSS-1

PIN #	FUNCTION
1,2	+VIN
3,4	GND(POWER)
5	ENABLE
6	+5V OUT
7	VCNTL
8	GND(SIGNAL)
9	VSYNC IN(OPTIONAL)
10	GND(SIGNAL)
11	TBD
12	GND(SIGNAL)

OUTPUT CONNECTOR(S)
CON9,CON12
JST SM03(4.0)B-BHS-1-TB

PIN #	FUNCTION
1	CCFL HOT
2	NC
3	CCFL HOT