

APPLIED CONCEPTS INC.

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ACL-12-1325

CCFL INVERTER

(For Multiple Tube Applications)

PRODUCT DATA SHEET

3/21/02

The ACL-12-1325 is designed to power 32 CCFL's to a nominal power level of 62 watts.

Intensity control (0-100%) is accomplished by the user providing a variable dc level of 0V(off) to 5V(full-on) at pin 4 of CON1. Enable control is accomplished at pin 7 of CON1 (0V=off, 5V=on).

This inverter is designed to drive an Innova 32 tube dual bank 18" backlight that is configured with 22pF ballast capacitors (1 per CCFL).

Specifications:

(When connected an Innova 32 Tube, 18" backlight configured with one 22pF ballast capacitor per CCFL)

Vin = +12V +/- 10%

CCFL strike voltage = 1100Vrms @ Vin=12V

CCFL tube current = 3.5mA/tube @ 100% intensity/Vin=12V)

Recommended CCFL sustaining voltage = 500Vrms - 600Vrms

Nominal tube current frequency = 28khz +/- 10%

PWM Frequency = 98Hz +/-2%

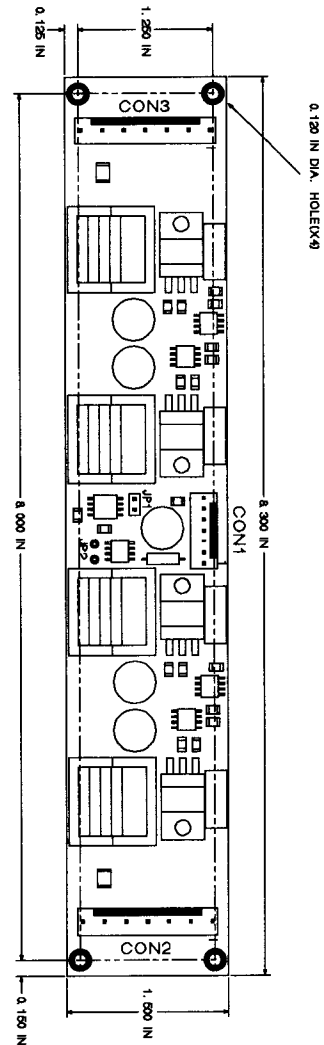
Pwm duty cycle range = 0 to 100%

External PWM signal input control via enable pin

Average electrical efficiency >90%

UL 1950 Recognized

PROFILE:
0.575 IN



CON1
MOLEX 22-28-0070

PIN #

1	+5V OUTPUT
2	+12V INPUT(PWR)
3	+12V INPUT(PWR)
4	VCNTL
5	GND(PWR)
6	GND(PWR)
7	ENABLE

CON2(CON3)
MOLEX 22-28-0130

PIN #

1	NC
2	NC
3	NC
4	NC
5	NC
6	NC
7	NC
8	NC
9	HVB1(HVB2)
10	NC
11	NC
12	NC
13	HVB1(HVB2)