APPLIED CONCEPTS INC.
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ACL-12-1129

PRODUCT DATA SHEET

7/29/03

CCFL INVERTER

(For Multiple Tube Applications)

The ACL-12-1129 is designed to power 12 CCFL's to a nominal power level of 43 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).

All outputs are open and short circuit protected.

This unit is mechanically and plug-in compatible to the BI220A series Landmark Inverter. Contact factory for your unique electrical requirements.

Specifications:

Vin = +12V +/- 10%

CCFL strike voltage = 1800Vrms @ Vin=12V

CCFL tube current = 6.0mA/tube @ 100% intensity/Vin=12V

Recommended CCFL sustaining voltage = 450Vrms - 750Vrms

Nominal tube current frequency = 41khz +/- 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

*Additional control/capability:**

Supports multiple units ie:Master/Slave(s)

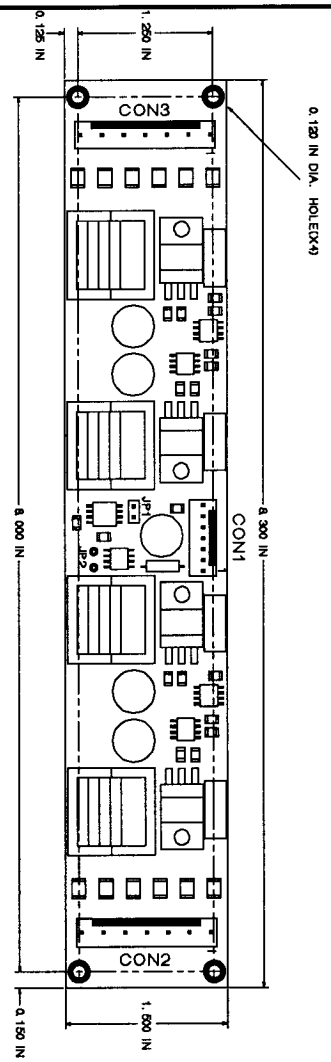
Synchronization to display frame-rate

Low power sleep-mode and soft-start

70 Watt total output power capability @ 70DegC

* Please contact factory for information

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