

# APPLIED CONCEPTS INC.

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# ACL-12-1258

## PRODUCT DATA SHEET

7/30/03

## CCFL INVERTER

(For Multiple Tube Applications)

The ACL-12-1258 is designed to power 12 CCFL's to a nominal power level of 52 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.

### Specifications:

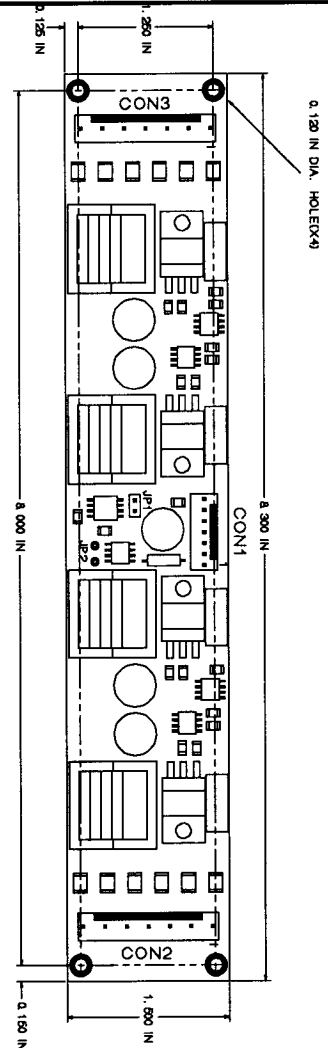
- Vin = +12V +/- 10%
- CCFL strike voltage = 1800Vrms @ Vin=12V
- CCFL tube current = 7mA/tube @ 100% intensity/Vin=12V
- Recommended CCFL sustaining voltage = 500Vrms - 700Vrms
- Nominal tube current frequency = 32khz +/- 10%
- Nominal pwm frequency = 98Hz +/- 3%
- Pwm duty cycle range = 0 to 100%
- Average electrical efficiency >90%

### 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

CON2(CON3)  
MOLEX 22-28-0130

PIN #		PIN #	
1	+5V OUTPUT	1	CCFL 1(7)
2	+12V INPUT(PWR)	2	NC
3	+12V INPUT(PWR)	3	CCFL 2(8)
4	VCNTL	4	NC
5	GND(PWR)	5	CCFL 3(9)
6	GND(PWR)	6	NC
7	ENABLE	7	CCFL 4(10)
		8	NC
		9	CCFL 5(11)
		10	NC
		11	CCFL 6(12)
		12	NC
		13	CCFL COM