

# APPLIED CONCEPTS INC.

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# ACE-12-1275

## CCFL INVERTER

(For Single Tube Applications)

## PRODUCT DATA SHEET

03/05/02

The ACE-12-1275 is designed to power 1 CCFL to a nominal power level of 6 watts.

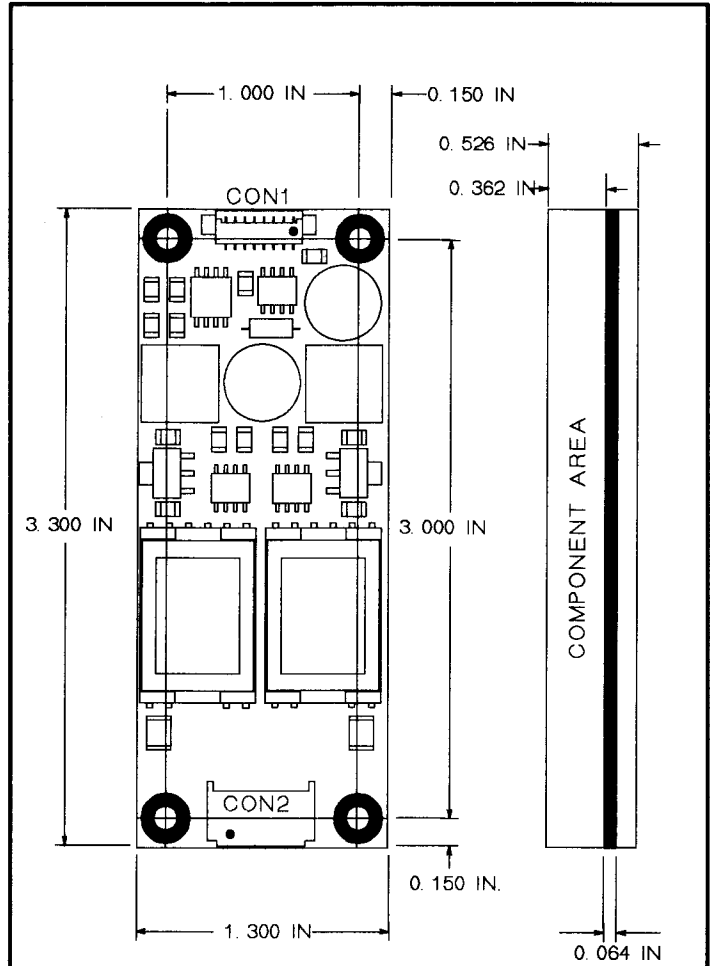
Intensity control (0-100%) is accomplished by the user providing a variable dc level of 0V(off) to 5V(full-on) at pin 4 of CON1.

Enable control is accomplished at pin 3 of CON1 (0V=off, 5V=on).

Output is open and short circuit protected.

The ACE-12-1275 provides self heating control, maintaining all specified safe operating limits, with smooth transition between temperature limits

This unit is designed to drive the Sharp LQ058T5DRQ1



### Specifications:

Vin = +12V +/- 10%

CCFL strike voltage = 2400Vrms @ Vin=12V

CCFL tube current = 8.8mA/tube @ 100% intensity/Vin=12V

Recommended CCFL sustaining voltage = 700Vrms - 1000Vrms

Pwm duty cycle range = 0 to 100%

Nominal tube current frequency = 60khz +/- 10%

Nominal pwm frequency = 98Hz +/- 3%

Average electrical efficiency >90%

Safe operating area automatically maintained when display connector CN1 Pins 31 & 32 are connected to Therm inputs of ACE-12-1275 (CON 1 Pin 7 & 8)

#### Safe operating limits:

- Temp < 25 C min duty cycle 9%
- Temp > 50 C Max duty cycle 80%

\* Please contact factory for information

CON1  
MOLEX 53261-0890

CON2  
JST SM03(4.0)B-BHS-1-TB

PIN #	
1	+12V
2	GND
3	ENABLE
4	VCNTL
5	GND Sig
6	LOGIC HI
7	THERM
8	THERM

PIN #	
1	CCFL
2	NC
3	CCFL