

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

AC2-10-1092

CCFL INVERTER

(For Multiple Tube Applications)

PRODUCT DATA SHEET

1/13/00

The AC2-10-1092 is designed to power 4 CCFL's to a nominal power level of 15 watts.

Intensity control (0-100%) is accomplished by the user providing a variable dc level of 0V(off) to 2.5V(full-on) at pin 6 of CON1.

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

All outputs are open and short circuit protected.

Specifications:

$V_{in} = +10.65V \pm 10\%$

CCFL strike voltage = 1500Vrms @ $V_{in}=10.65V$

CCFL tube current = 7.5mA/tube @ 100% intensity/ $V_{in}=10.65V$

Recommended CCFL sustaining voltage = 400Vrms - 600Vrms

Nominal tube current frequency = 57kHz $\pm 10\%$

Nominal pwm frequency = 98Hz $\pm 3\%$

Pwm duty cycle range = 0 to 100%

Average electrical efficiency >90%

External PWM signal input control via enable pin

Output PWM sync signal @ pin 8 of CON1

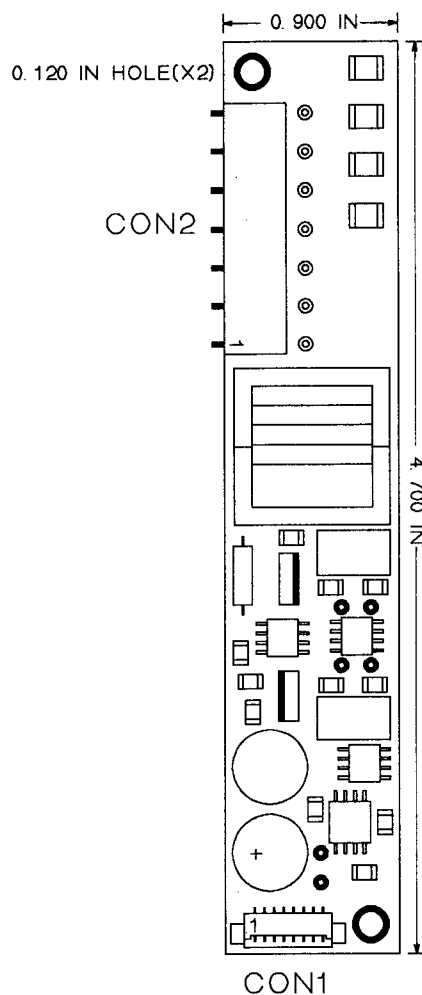
Additional control capability:*

Supports multiple units ie: Master/Slave(s)

Synchronization to display frame-rate

Low power sleep-mode and soft-start

* Please contact factory for information



CON1

PROFILE < 0.575 IN

INPUT CONNECTOR
CON1
MOLEX 53261-0890

OUTPUT CONNECTOR
CON2
MOLEX 22-28-1130

PIN #	FUNCTION
1	+12V(PWR)
2	+12V(PWR)
3	GND(PWR)
4	GND(PWR)
5	ENABLE
6	VCNTL
7	+5V OUT
8	PWM OUT

PIN #	FUNCTION
1	CCFL COMMON
2	NC
3	NC
4	NC
5	NC
6	NC
7	CCFL4
8	NC
9	CCFL3
10	NC
11	CCFL2
12	NC
13	CCFL1