

**APPLIED
CONCEPTS INC.**

397 Route 281 - P.O. BOX 1175
Tully, New York 13159-1175
Phone: (315) 696-6676 Fax: (315) 696-9923
www.acipower.com

AC7-12-1161

PRODUCT DATA SHEET - PAGE 1 OF 2

CCFL INVERTER
(For Dual Tube Applications)

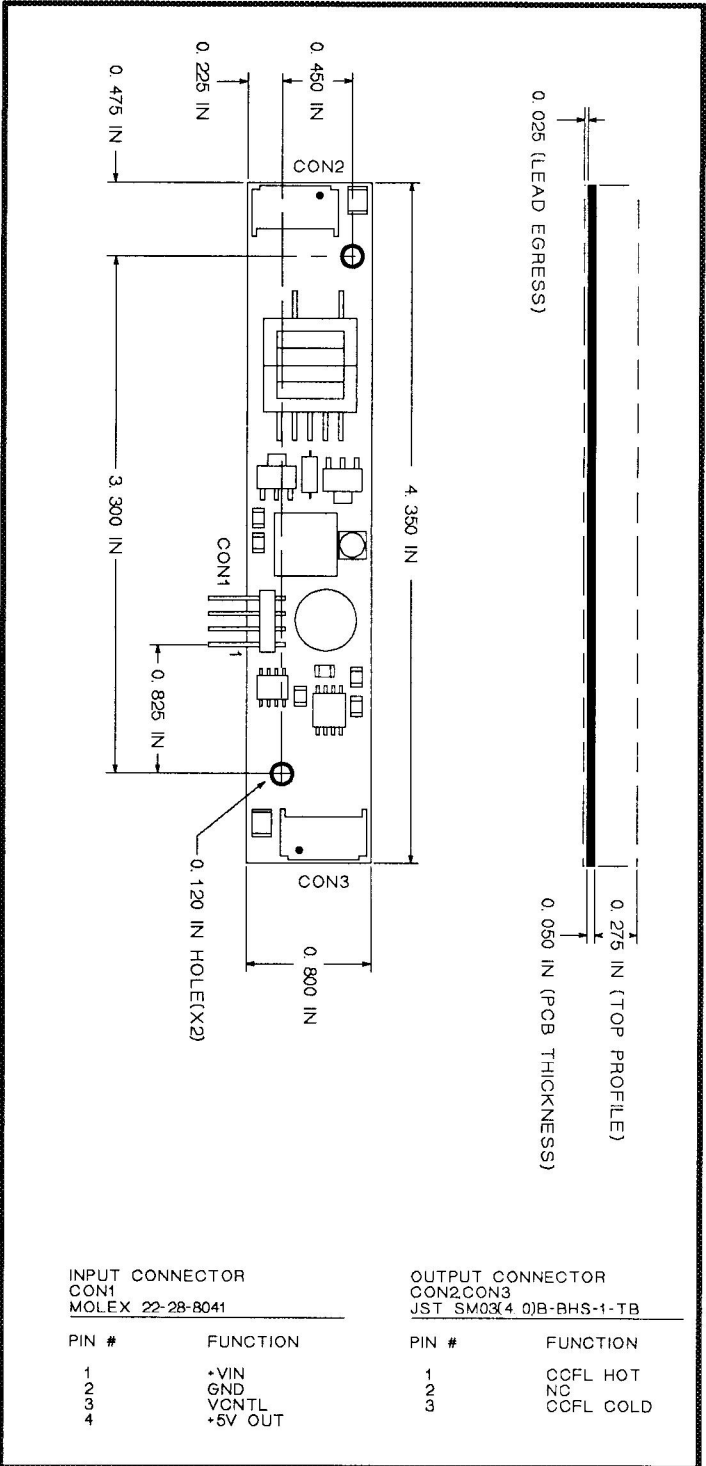
6/14/07

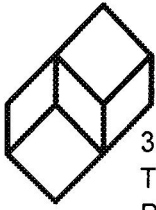
GENERAL DESCRIPTION

The AC7-12-1161 is designed to drive 2 CCFL's to a nominal current level of 7.0mA/tube.
Intensity control (0-100%) is accomplished by the user providing a variable dc level at pin 3 of CON1.
A +5V level is available at pin 4 of CON1 for external use.
All outputs are open and short circuit protected.

MECHANICAL / ENVIRONMENTAL

Weight = 14.1 grams
Altitude = 10,000 Ft maximum
Humidity < 85% non-condensing
Size (L x W x H) = 4.35 IN x 0.8 IN x 0.35 IN
PCB thickness = 0.047 IN
Mounting Holes = 0.120 IN diameter (X2)
Input Power & Control Connector = CON1
CCFL Output Connectors = CON2, CON3





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MAXIMUM RATINGS*

6/14/07

Symbol	Parameter	Value	Unit
Vin	Supply Voltage (Referenced to Ground)	-0.7 to 14	Vdc
Vip	Voltage applied to any Input Pin (Referenced to Ground)	-0.7 to 5.7	Vdc
Iop	Current sourced or sinked from any Output Pin	+/- 10	mAdc
Pin	Input Power (DC Input Voltage x DC Input Current)	9.6	W
Top	Operating Temperature (Still air ambient around Inverter)	-20 to +70	DegC
Tstg	Storage Temperature	-20 to +105	DegC

* Maximum Ratings are those values beyond which damage to the inverter may occur

RECOMMENDED OPERATING CONDITIONS

Symbol	Parameter	Min	Max	Unit
Vin	Supply Voltage (Referenced to Ground)	10.8	13.2	Vdc
Lsv	Cold Cathode Fluorescent Lamp Sustaining Voltage	400	600	Vrms
Vcntl	Intensity Control Voltage	0	5.0	Vdc

ELECTRICAL CHARACTERISTICS

Vin = +12V, Lsv = 500Vrms, Vcntl = +5V unless otherwise specified.

Symbol	Parameter	Test Conditions	Min	Max	Unit
Lstart	Lamp Starting Voltage		1500		Vrms
Lout	Lamp Output Current		6.3	7.7	mArms
Lfreq	Lamp-Current Frequency		53	65	Khz
Pfreq	PWM Dimming Frequency	Vcntl (Pin 3 = +2.5V)	95	101	Hz
Pdc	PWM Duty Cycle Range	Vcntl (Pin 3) = 0 to +5V	0	100	%
+5Vout	+5V Reference Out	10K load to ground (Pin 4)	4.6	5.25	Vdc
Iin	Input Current Draw	@ 12 V in		0.73	Adc
Eff	Electrical Efficiency		88		%