

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

AC-1632

PRODUCT DATA SHEET - PAGE 1 OF 2

CCFL INVERTER

(For Single Tube Applications)

11/8/06

GENERAL DESCRIPTION

The AC-1632 is designed to power 1 CCFL from an input voltage of +12V.

The AC-1632 features dimming control via an analog dc control level presented to pin 4 of CON1.

Enable control is accomplished @ pin 3 of CON1.

The output is open and short circuit protected.

MECHANICAL / ENVIRONMENTAL

Weight = 14 grams

Altitude = 10,000 Ft maximum

Humidity < 85% non-condensing

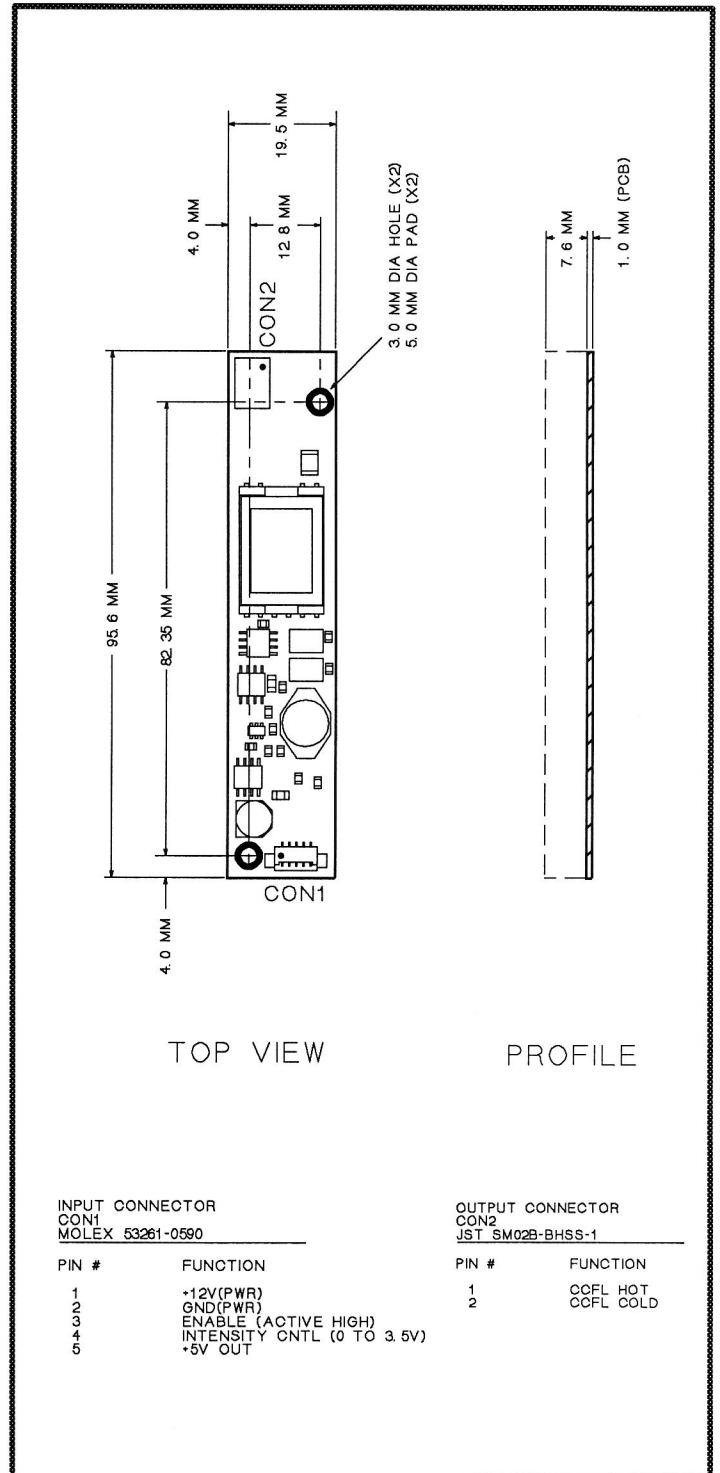
Size (L x W x H) = 95.6 mm x 19.5 mm x 8.6 mm

PCB thickness = 1.0 mm

Mounting Holes = 3.0 mm diameter (X2)

Input Power & Control Connector = CON1

CCFL Output Connector = CON2





**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

AC-1632

PRODUCT DATA SHEET - PAGE 2 OF 2

MAXIMUM RATINGS*

11/8/06

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)	5	W
Top	Operating Temperature (Still air ambient around Inverter)	-30 to +85	DegC
Tstg	Storage Temperature	-30 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	284	582	Vrms
Vcntl	Intensity Control Voltage Range	0	3.5	Vdc

ELECTRICAL CHARACTERISTICS

Vin = +12V, Vcntl = +3.5V, Enable = +5V unless otherwise specified

Symbol	Parameter	Test Conditions	Min	Max	Unit
Lstart	Lamp Starting Voltage		1400		Vrms
Lout1	Lamp Output Current	@ Lsv = 485Vrms	6.3	7.7	mArms
Lout2	Lamp Output Current	@ Lsv = 355Vrms	6.7	8.3	mArms
Lfreq	Lamp-Current Frequency		50.4	61.6	Khz
Pfreq	PWM Dimming Frequency	Vcntl (Pin 4) = +1.75V	95	101	Hz
Pdc	PWM Duty Cycle Range	Vcntl (Pin 4) = 0V to +3.5V	0	100	%
ENoff	Enable Control, unit OFF	(Pin 3)		0.5	Vdc
ENon	Enable Control, unit ON	(Pin 3)	2.0		Vdc
+5Vout	+5V Reference Out	(Pin 5) 10K load to ground	4.6	5.3	Vdc
Iin1	Input Current Draw	@ Lsv = 485Vrms		0.4	Adc
Iin2	Input Current Draw	@ Lsv = 355Vrms		0.31	Adc
Eff	Electrical Efficiency		80		%