



**APPLIED
CONCEPTS INC.**

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AC3-12-1658

PRODUCT DATA SHEET - PAGE 2 OF 2

MAXIMUM RATINGS*

2/06/07

Symbol	Parameter	Value	Unit
Vin	Supply Voltage (Referenced to Ground)	-0.7 to 13.5	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)	9.9	W
Top	Operating Temperature (Still air ambient around Inverter)	0 to +70	DegC
Tstg	Storage Temperature	-40 to +150	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	500	700	Vrms
Vcntl	Intensity Control Voltage	0.5	4.5	Vdc

ELECTRICAL CHARACTERISTICS

Vin = +12V, Lsv =600Vrms, Vcntl = +4.5V, Enable = +5V unless otherwise specified

Symbol	Parameter	Test Conditions	Min	Max	Unit
Lstart	Lamp Starting Voltage		1500		Vrms
Lout	Lamp Output Current		5.4	6.6	mArms
Lfreq	Lamp-Current Frequency		32.7	39.9	Khz
Pfreq	PWM Dimming Frequency		95	101	Hz
Pdc	PWM Duty Cycle Range	Vcntl (PIN 6) = 0.5V to +4.5V	0	100	%
ENoff	Enable Control, unit OFF	Unit OFF (PIN 5)		0.7	Vdc
ENon	Enable Control, unit ON	Unit ON (PIN 5)	3.5		Vdc
VSYlo	Vertical Sync In	LO Level (PIN 8)		1.0	Vdc
VSYhi	Vertical Sync In	HI Level (PIN8)	4.0		Vdc
+5Vout	+5V reference out	10K load to ground (PIN 7)	4.75	5.25	Vdc
Iin	Input Current Draw			0.73	Adc
Eff	Electrical Efficiency		90		%