



Item #		AL-98-01-12090	AL-98-01-24090
Output	DC Voltage	12V DC	24V DC
	Rated Current	7.5A	3.75A
	Rated power	90W	90W
	Voltage Tolerance	±4.0%	±3.0%
	Dimming Range	0 ~ 100%	
	PWM Frequency (Avg.)	300Hz	
	Setup, Rise Time Note 2	500ms, 80ms 115VAC / 230VAC at full load	
	Hold Up Time (Avg.)	16ms/230V AC 16ms/115V AC at full load	
Input	Voltage Range	90-305V AC / 127~431V DC	
	Frequency Range	47~63HZ	
	Power Factor (Avg.)	PF>0.98/115V AC, PF>0.95/230V AC, PF>0.94/277V AC at full load	
	Total Harmonic Distortion	THD< 20% when output loading≥60% at 115V AC/230V AC input and output loading≥75% at 277V AC input	
	Efficiency (Avg.)	>88% (12V DC)	>90.5% (24V DC)
	AC Current (Avg.)	0.95A / 115V AC	0.5A / 230V AC 0.4A / 277V AC
	Inrush Current (Avg.)	COLD START 60A (twidth=550µs measured at 50% Ipeak) at 230V AC	
Leakage Current	0.25mA /277V AC		
Protection	Overload	108~120% rated output power Protection type: Hiccup mode, recovers automatically after fault condition is removed	
	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed	
	Over Temperature	Shut down o/p voltage, re-power on to recover	
	Over Voltage	15 ~ 17V	28 ~ 34V
		Protection type: Shut down o/p voltage, re-power on to recover	
Environment	Working Temp.	-40 ~ +70°C, -40 ~ +158°F (Refer to "Derating Curve")	
	Working Humidity	20~95% RH, non-condensing	
	Storage Temp., Humidity	-40 ~ +80°C, -40~176°F / 10~95%RH	
	Temp Coefficient	±0.03%/°C (0~50°C, 32~122°F)	
	Vibration	10~500Hz, 5G 12min./1 cycle, period for 72min. each along X, Y, Z axes	
Safety & EMC	Safety Standards	UL8750, CSA C22.2 No. 250.13-12, ENEC EN61347-1, EN61347-2-13, EN62384 independent, IP67 approved; Design refer to EN60335-1	
	Withstand Voltage	I/P-O/P: 3.75KV AC	
	Isolation Resistance	I/P-O/P:>100MΩ/500V DC/25°C, 77°F/70% RH	
	EMC Emission	Compliance to EN55015, EN61000-3-2 Class C (≥60% load) ; EN61000-3-3	
	EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level(surge L-N:2KV), criteria A	
Other	Warranty	5 Year Limited	
	MTBF	224.2.K hrs min. MIL-HDBK-217F (25°C, 77°F)	
	Size	6.8 x 2.5 x 1.47 in	

1. All parameters NOT specially mentioned are measured at 230V AC input, rated load and 25°C / 77°F of ambient temperature.
2. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time.