PFC 150W Single Output power supply

AK150 series



that it still meets EMC directives.



Features:

Green design, No-load power consumption < 0.7W
Universal AC input with active PFC
Protections: Short circuit / Over load / Over voltage
Brown-out (Low AC Input Voltage)

Cooling by free air convection

Power ON with LED indicator

All using 105°C long life electrolytic capacitors

High operation temperature up to 70°C

Withstand 5G vibration test

100% full load burn-in test

High efficiency, long life and high reliability

3 years warranty

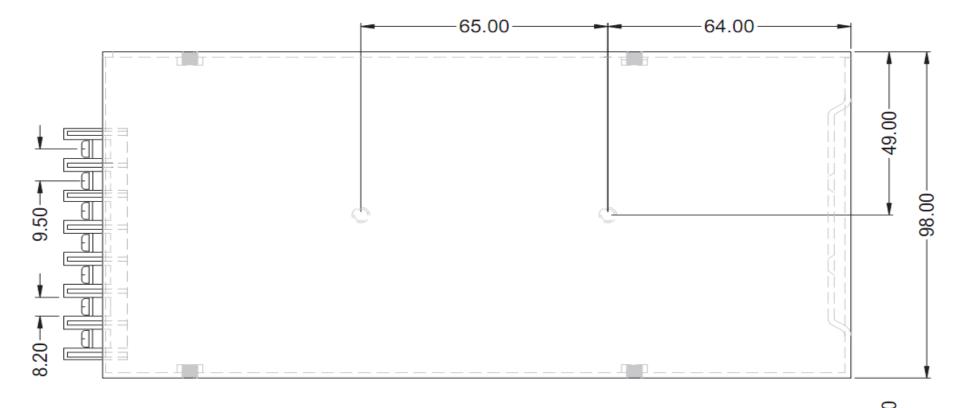
	Moltage and Frequency RANGE 2	100 000000 0 0 1							
	oltage and Frequency RANGE ² 90 ~ 264VAC 50 / 60Hz, or 127 ~ 370VDC								
INPUT	AC CURRENT	1.8 A / 115VAC 0.9A / 230VAC							
	INRUSH CURRENT(Typ.)	30A / 115VAC 55A / 230VAC							
	LEAKAGE CURRENT	< 2mA / 230VAC							
	Power Factor (Typ.)	>0.92 / 230VAC >0.98 / 115VAC at ful I load							
	MODEL	AK-150-05	AK-150-7.5	AK-150-12	AK-150-13.5	AK-150-15	AK-150-24	AK-150-27	AK-150-48
OUTPUT	DC VOLTAGE RANGE	5V	7.5V	12V	13.5V	15V	24V	27V	48V
	RATED CURRENT	20A	20A	12.5A	11.2A	10A	6.3A	5.6A	3.2A
	Current Range	0 ~ 20A	0 ~ 20A	0 ~ 12.5A	0 ~ 11.2A	0 ~ 10A	0 ~ 6.3A	0 ~ 5.6A	0~3.2A
	RATED POWER	100W	150W	150W	151.2W	150W	151.2W	151.2W	153.6W
	Ripple & Noise (max.) ³	100 mVp-p	100 mVp-p	100 mVp-p	100 mVp-p	100 mVp-p	120 mVp-p	120 mVp-p	200 mVp-յ
	VOLTAGE ADJ. RANGE	4.5~5.5V	6.75~8.25V	10.8~13.2V	12.15~14.9V	13.5~16.5V	21.6~26.4V	24.3~29.7V	43.2~52.8\
	VOLTAGE TOLERANCE 4	±2%	±1.5%	±1%	±1%	±1%	±1%	±1%	±1%
	Line Regulation	±1%	±1%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Load Regulation	±1%	±1%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Setup, Rise Time	<2500ms, <110ms at full load							
	Hold Up Time (Typ.)	>32ms / 230VAC, > 10ms / 115VAC at full load							
	EFFICIENCY (Typ.)	79%	82%	86%	87%	87%	87%	89%	89%
PROTECTION	Over Load	> 105% rated output power. Protection type: Hiccup mode, recovers automatically after fault condition is removed							
	Over Voltage	115% ~ 150% rated output voltage Protection type : latch-off mode							
	Over Temperature	90°C ±5°C detect on Air Protection type : shut down o/p voltage, after temperature goes down ang re-power ON to recover							
ENVIRONMENT SAFETY & EMC	WORKING TEMP.	nominal -30 to +80 C ambient (40C at full load, linearly derate to 50% of output rating up to 80C)							
	WORKING HUMIDITY	20 ~ 90% R.H non-condensing							
	STORAGE TEMP., HUMIDITY	-40 to 80 C, 5% to 95%RH							
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)							
	VIBRATION	10 ~ 500Hz, 5G 10min./1 cycle, period for 60 min. Each along X,Y,Z axes							
	SAFETY STANDARDS	UL 60950-1, 2 n d Edition, TUV EN60950-1 : 2006+A11 Approved							
	WITHSTAND VOLTAGE	I/P - O/P : 3KVAC(4242 DC) I/P - FG : 1.5KVAC(2121 DC) O/P-FG : 0.5KVAC(707DC), 1 min							
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: 100MΩ / 500VDC							
	HARMONIC CURRENT	EN61000-3-2: 2006 Class A, EN61000-3-3: 1995+A1: 2001+A2: 2005							
	EMS IMMUNITY	EN61204-3: 2000, EN55024: 1998+A1: 2001+A2: 2003 light industry level, criteria A							
OTHERS	MTBF	161K HRS Compliance : MIL-HDBK-217F							
	Cooling	Cooling by free convection							
	DIMENSION	197x98x42mm / 7.76x3.86x1.65inch							
	PACKING	0.7kg; 24Pcs/16.8kg							
NOTE	1. Al I parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.								
	 De-rating may be needed under low input voltages. Please check the de-rating curve for more details. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47 uf parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed 								

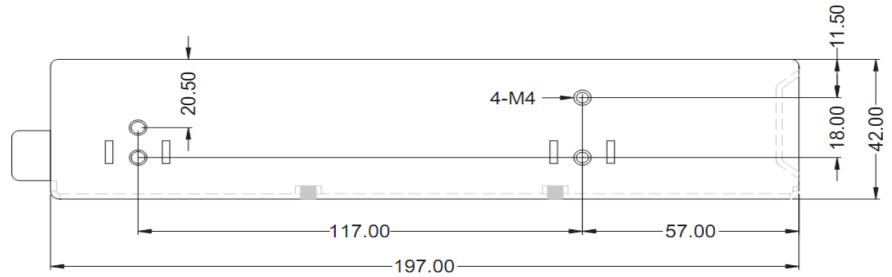
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Mechanical Specification







De-rating Curve

