

PFC 200W Single Output power supply

PS200series



Features :

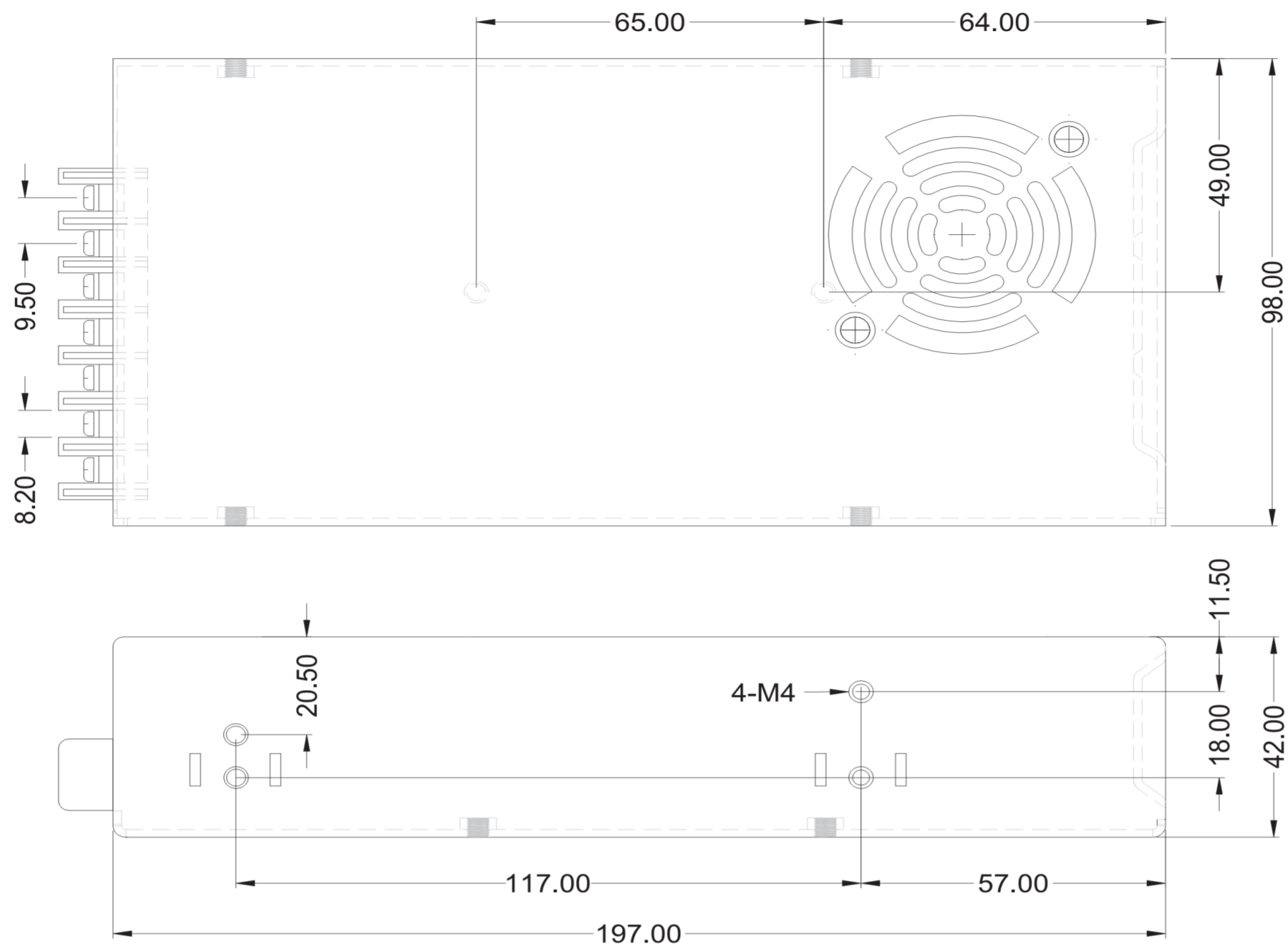
- Green design, No-load power consumption < 0.7W
- Universal AC input with active PFC
- Protections: Short circuit / Over load / Over voltage
Brown-out (Low AC Input Voltage)
- Cooling by free air convection
- Power ON with LED indicator
- All using 105°C long life electrolytic capacitors
- High operation 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

SPECIFICATION

INPUT	Voltage and Frequency RANGE ²	90 ~ 264VAC 50 / 60Hz, or 127 ~ 370VDC							
	AC CURRENT	2.3 A / 115VAC 1.2A / 230VAC							
	INRUSH CURRENT(Typ.)	30A / 115VAC 55A / 230VAC							
	LEAKAGE CURRENT	<0.25mA at 240VAC							
	Power Factor (Typ.)	>0.92 / 230VAC >0.98 / 115VAC at full load							
MODEL		AK-200-05	AK-200-7.5	AK-200-12	AK-200-13.5	AK-200-15	AK-200-24	AK-200-27	AK-200-48
OUTPUT	DC VOLTAGE RANGE	5V	7.5V	12V	13.5V	15V	24V	27V	48V
	RATED CURRENT	32A	26.7A	16.7A	14.9A	13.4A	8.4A	7.5A	4.2A
	CURRENT RANGE	0 ~ 32A	0 ~ 26.7A	0 ~ 16.7A	0 ~ 14.9A	0 ~ 13.4A	0 ~ 8.4A	0 ~ 7.5A	0 ~ 4.2A
	RATED POWER	200W	200W	200W	201W	201W	201W	202W	201W
	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-p
	VOLTAGE ADJ. RANGE	4.5~5.5V	6.75~8.25V	10.8~13.2V	12.15~14.85V	13.5~16.5V	21.6~26.4V	24.3~29.7V	43.2~52.8V
	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.)	78%	81%	85%	86%	86%	87%	88%	88%	
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 and re-power ON to recover							
ENVIRONMENT	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 & EMC	SAFETY STANDARDS	UL 60950-1, 2nd 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							
	EMI CONDUCTION & RADIATION	EN55022: 2006 Class B							
	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	<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. De-rating may be needed under low input voltages. Please check the de-rating curve for more details.</p> <p>3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47 uf parallel capacitor.</p> <p>4. Tolerance: includes set up tolerance, line regulation and load regulation.</p> <p>5. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.</p>								

Mechanical Specification

Unit : mm



De-rating Curve

