

FEATURES

1. AC input range selectable by switch
2. Protections: Short circuit / Overload / Over voltage / Over temperature
3. Withstand 300VAC surge input for 5 second
4. Cooling by free air convection
5. 100% full load burn-in test
6. LED indicator for power on
7. Fixed switch frequency 90KHz
8. High reliability
9. 3 years Warranty
10. Compliance to IEC/EN/UL 62368-1



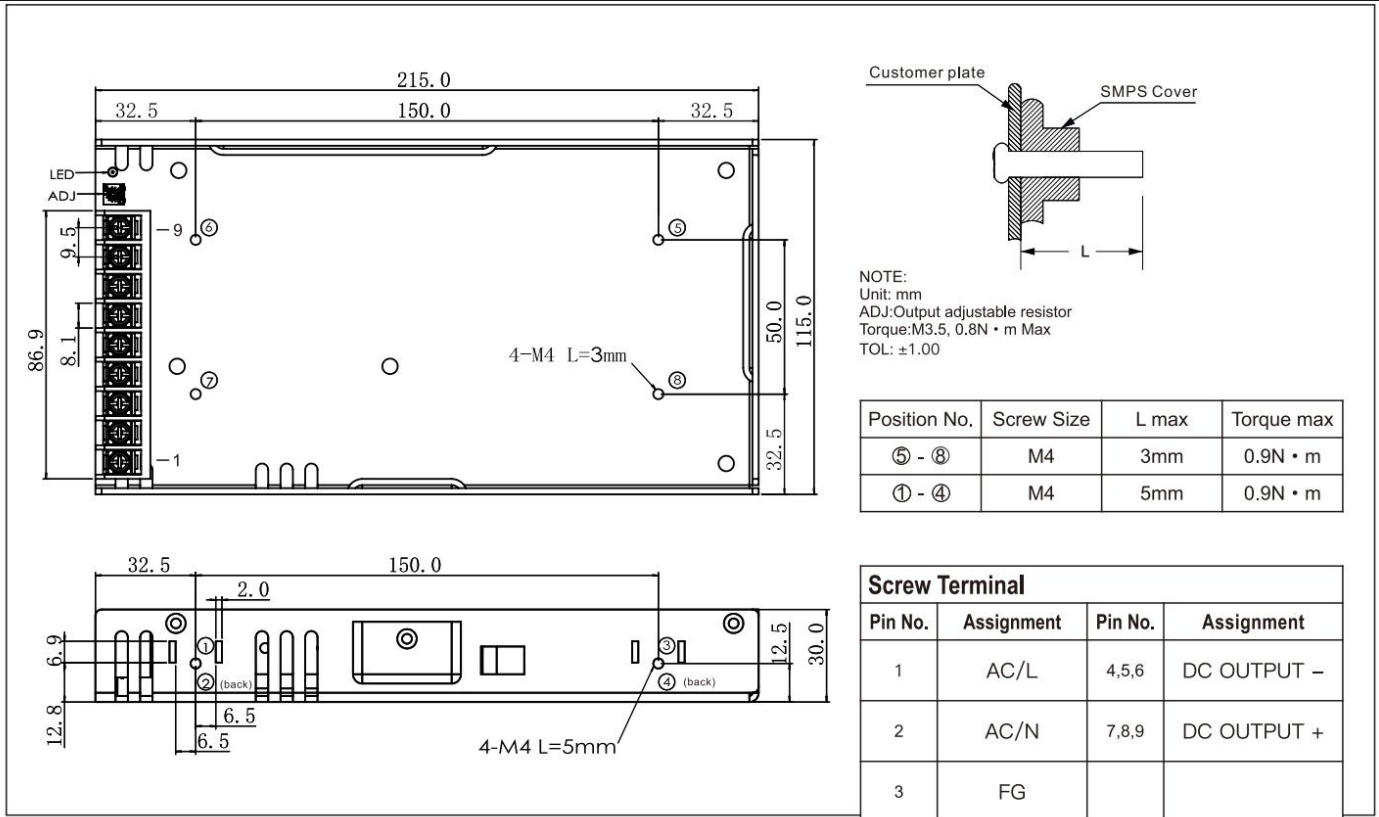
**3 years
Warranty**

Specification

MODEL		RAM250-05	RAM250-7.5	RAM250-12	RAM250-15	RAM250-24	RAM250-36	RAM250-48
INPUT	VOLTAGE RANGE	90~132Vac/180~264Vac(by switch)240~370Vdc(Switch on 230Vac)(refer to 'static characteristic')						
	FREQUENCY RANGE	47~63Hz						
	EFFICIENCY(Typ.)	87%	87%	87%	88%	89%	88%	90%
	AC CURRENT(Typ.)	6A/115Vac 3A/230Vac						
	INRUSH CURRENT(Typ.)	60A/115Vac 60A/230Vac (cold start)						
	LEAKAGE CURRENT	<2mA/240Vac						
OUTPUT	DC VOLTAGE	5V	7.5V	12V	15V	24V	36V	48V
	RATED CURRENT	40A	30A	21A	16.7A	10.5A	7A	5.3A
	CURRENT RANGE	0~40A	0~30A	0~21A	0~16.7A	0~10.5A	0~7A	0~5.3A
	RATED POWER	200W	225W	252W	250.5W	252W	252W	254.4W
	RIPPLE&NOISE(max.)	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p
	VOLTAGE ADJ.RANGE	4.5~5.5V	6.75~8.25V	10.2~13.8V	13.5~18V	21.6~28.8V	32.4~39.6V	43.2~52.8V
	VOLTAGE TOLERANCE	±3%	±2%	±1.5%	±1%	±1%	±1%	±1%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±2%	±2%	±1%	±0.5%	±0.5%	±0.5%	±0.5%
	SETUP,RISE TIME	1500ms,50ms/230Vac 1500ms,50ms/115Vac						
	HOLD UP TIME(Typ.)	16ms/230Vac 12ms/115Vac						
PROTECTION	OVER LOAD	110%~140%rated output power Protection type:Constant current limiting>3s,then hiccup,recovers automatically after fault condition is removed						
	OVER VOLTAGE	5.75~6.75V	10.4~12.5V	13.8~16.2V	18.2~22.5V	28.8~33.6V	41.4~46.8V	57.6~67.2V
	OVER TEMPERATURE	Protection type:output voltage shutdown,recovers automatically after fault condition is removed						
ENVIRONMENT	WORKING TEMP,HUMIDTY	-25~+70°C(Refer to"Derating curve"),20~90%RH non-condensing						
	STORAGE TEMP,HUMIDITY	-40~+85°C,10~95%RH						
	TEMP.COEFFICIENT	±0.03%/°C(0~50°C)						
	VIBRATION	10~500Hz,5G 10min./1 cycle,each along X、Y、Z axes						
Safety and electromagnetic compatibility	Safety standards	Refer to UL62368-1,TUV EN62368-1,CCC GB4943.1						
	Withstand voltage and isolation resistance	I/P-O/P:3KVac;100MΩ/500Vdc /25°C/70%RH						
		I/P-FG:2KVac;100MΩ/500Vdc /25°C/70%RH						

		O/P-FG:0.5KVac;100MΩ/500Vdc /25°C /70%RH		
	Electromagnetic	Parameter	Standard	Test Level /Note
		Conducted emission	BS EN/EN55032(CISPR32),FCC PART 15/CISPR22 ,GB9254.1	Class A
		Radiated emission	BS EN/EN55032(CISPR32),FCC PART 15/CISPR22 ,GB9254.1	Class A
		Harmonic current	BS EN/EN61000-3-2,GB17625.1	Dos not meet
		Voltage flicker	BS EN/EN61000-3-3	-
	Electromagnetic compatibility immunity	BS EN/EN55035		
		Parameter	Standard	Test Level /Note
		ESD	BS EN/EN61000-4-2	Level 4,8KV air,Level 2,4KV contact,criteria A
		RF field susceptibility	BS EN/EN61000-4-3	Level 3,criteria A
		EFT bursts	BS EN/EN61000-4-4	Level 3,criteria A
		Surge susceptibility	BS EN/EN61000-4-5	Level 3,1KV/L-N,2KV/L/N-FG criteria A
		Conducted susceptibility	BS EN/EN61000-4-6	Level 3,criteria A
		Magnetic field immunity	BS EN/EN61000-4-8	Level 4,criteria A
		Voltage dips and interruptions	BS EN/EN61000-4-11	>95%dip 0.5 periods,30%dip 25 periods,>95%interruptions 250 periods
OTHERS	MTBF	≥328Khrs MIL-HDBK-217F(25°C)		
	DIMENSION	215*115*30mm(L*W*H)		
	PACKING	0.67Kg;15pcs/10.5Kg/0.77CUFT		
NOTE	<p>1.All parameters NOT specially mentioned are measured at 230VAC input,rated load and 25°C of ambient temperature</p> <p>2.Ripple &noise are measured at 20MHz of bandwidth by using a 12"twisted pair-wire terminated with a 0.1uF&47uF parallel capacitor</p> <p>3.Tolerance:includes set up tolerance,line regulation and load regulation.</p> <p>4.Line regulation is measured from low line to high line at rated load.</p> <p>5.Load regulation is measured from 0% to 100% rated load</p> <p>6.Length of set up time is measured at cold first start,Turning ON/OFF the power supply very quickly may lead to increase of the set up time.</p> <p>7.The ambient temperature derating of 5°C/1000m is needed for operating altitude great than 2000m(6500ft)</p> <p>8.The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness.The final equipment must be re-confirmed that it still meets EMC directives</p>			

Mechanical specification



Block diagram

