

### FEATURES

1. Universal AC input range
2. Protections: Short circuit / Overload / Over voltage/ Over temperature
3. Withstand 300VAC surge input for 5 second
4. No load power consumption<0.5W
5. Cooling by free air convection
6. 100% full load burn-in test
7. LED indicator for power on
8. Operating altitude up to 5000m
9. High reliability
10. 3 years warranty
11. Compliance to IEC/EN/UL 61558-1、CE、CCC、UL、CB

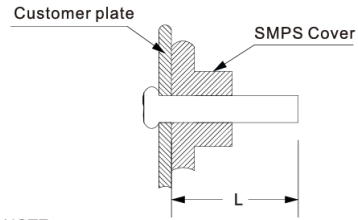
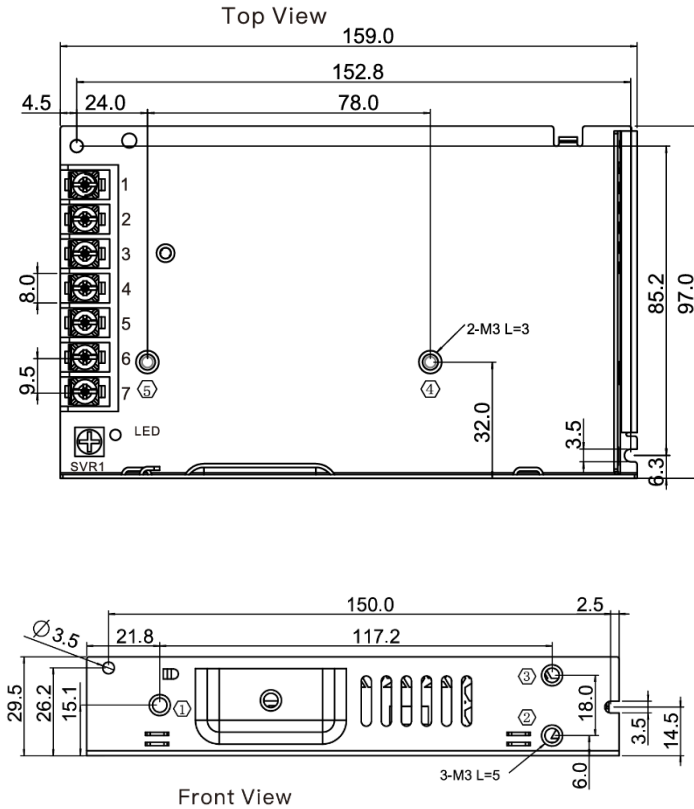


### Specification

MODEL		RAM-150-05	RAM-150-7.5	RAM-150-12	RAM-150-15	RAM-150-24	RAM-150-27	RAM-150-36	RAM-150-48
INPUT	VOLTAGE RANGE	85~264Vac 120~370Vdc (refer to 'static characteristic')							
	FREQUENCY RANGE	47~63Hz							
	EFFICIENCY(Typ.)	85%	86%	87%	88%	89%	89%	90%	90%
	AC CURRENT(Typ.)	3A/115Vac 1.7A/230Vac							
	INRUSH CURRENT(Typ)	30A/115Vac 60A/230Vao(cold start)(Lower inrush current was optional)							
	LEAKAGE CURRENT	<0.75mA/240Vac							
OUTPUT	DC VOLTAGE	5V	7.5V	12V	15V	24V	27V	36V	48V
	RATED CURRENT	22A	16A	12.5A	10A	6.5A	5.6A	4.4A	3.3A
	CURRENT RANGE	0~22A	0~16A	0~12.5A	0~10A	0~6.5A	0~5.6A	0~4.4A	0~3.3A
	RATED POWER	110W	120W	150W	150W	156W	151.2W	158.4W	158.4W
	RIPPLE&NOISE(max.)	100mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-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	24.5~30V	32.4~39.6V	43.2~52.8V
	VOLTAGE TOLERANCE	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%
	LINE REGULATION	±0.5%	±0.5%	±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	500ms,30ms/230Vac 500ms,30ms/115Vac							
	HOLDUP TIME(Typ.)	16ms/230Vac 10ms/115Vac							
PROTECTION	OVERLOAD	105%~150% rated output power Protection type:Hiccup mode ,recovers automatically after fault condition is removed.							
	OVERVOLTAGE	5.75~6.75V	10.4~12.5V	14.2~17V	18.2~22.5V	28.8~33.6V	31~35V	40~46.5V	55.2~64.8V
	OVER TEMPERATURE	Protection type:Shutdown,recovers after repower on							
ENVIRONMENT	WORKING TEMP, HUMIDITY	-30~+70°C(Refer to "Derating curve"),20~90%RH non-condensing							
	STORAGETEMP., 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 UL/EN62368-1,GB4943.1,EN60335-1,EN61558-1/-2-16			
	Withstand voltage and isolation resistance	I/P-O/P:4.2KVac;100MΩ/500Vdc/25°C/70%RH I/P-FG:2.1KVac;100MΩ/500Vdc /25°C/70%RH O/P-FG:1.25KVac;100MΩ/500Vdc/25°C/70%RH			
	Electromagnetic compatibility emission	<b>Parameter</b>	<b>Standard</b>	<b>Test Level / Note</b>	
		Conducted emission	BS EN/EN55032(CISPR32),FCC PART 15/CISPR22 ,GB9254.	Class B	
		Radiated emission	BS EN/EN55032(CISPR32),FCC PART 15/CISPR22 ,GB9254.	Class B	
		Harmonic current	BS EN/EN61000-3-2,GB17625.1	Class A(≤80%Load)	
		Voltage flicker	BS EN/EN61000-3-3	-- --	
	Electromagnetic compatibility immunity	BS EN/EN55035			
		<b>Parameter</b>	<b>Standard</b>	<b>Test Level / Note</b>	
		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 4,2KV/L-N,4KV/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	>=600Khrs MIL-HDBK-217F(25°C)			
	DIMENSION	159*97*30mm(L*W*H)			
	PACKING	0.4Kg;30pcs/13Kg/0.91CUFT			
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 &amp; noise are measured at 20MHz of bandwidth by using a 12"twisted pair-wire terminated with a 0.1uF&amp;4uF 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



NOTE:  
Unit: mm  
SVR1: Output adjustable resistor  
Torque: M3.5, 0.8N · m Max  
TOL: ±1.00

Position No.	Screw Size	L max	Torque max
1-3	M3	5mm	0.4N · m
4-5		3mm	

Screw Terminal			
Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DC OUTPUT -
2	AC/N	5	DC OUTPUT -
3	FG	6	DC OUTPUT +
		7	DC OUTPUT +

### Block Diagram

