

Features

1. AC input range selectable by switch
2. Protections: Short circuit / Overload / Over voltage / Over temperature
3. Built-in cooling Fan ON-OFF control
4. Withstand 300VAC surge input for 5 second
5. Forced air cooling by built-in DC fan
6. 100% full load burn-in test
7. LED indicator for power on
8. Fixed switch frequency 90KHz
9. High reliability
10. 3 years warranty
11. Compliance to IEC/EN/UL 61558-1、CQC、UL



3 years
Warranty

Specification

MODEL		RAM350-05	RAM350-7.5	RAM350-12	RAM350-15	RAM350-21	RAM350-24	RAM350-36	RAM350-48	
INPUT	VOLTAGE RANGE	90~132Vac/180~264Vac(by switch)240~370Vdc(Switch on 230Vac)(refer to `static characteristic`)								
	FREQUENCY RANGE	47~63Hz								
	EFFICIENCY(Typ.)	83.50%	84%	85%	86%	87%	87%	88%	88.50%	
	AC CURRENT(Typ.)	6.8A/115Vac 3.4A/230Vac								
	INRUSH CURRENT(Typ.)	60A/115Vac 60A/230Vac (cold start)								
	LEAKAGE CURRENT	<2mA/240Vac								
OUTPUT	DC VOLTAGE	5V	7.5V	12V	15V	21V	24V	36V	48V	
	RATED CURRENT	60A	46A	29A	23.3A	16.6A	14.6A	9.7A	7.3A	
	CURRENT RANGE	0~60A	0~46A	0~29A	0~23.3A	0~16.6A	0~14.6A	0~9.7A	0~7.3A	
	RATED POWER	300W	345W	348W	349.5W	348.6W	350.4W	349.2W	350.4W	
	RIPPLE&NOISE (max.)	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	
	VOLTAGE ADJ.RANGE	4.5~5.5V	6~9V	10.2~13.8V	13.5~18V	19-25.2V	21.6~28.8V	32.4~39.6V	43.2~52.8V	
	VOLTAGE TOLERANCE	±3%	±2%	±1.5%	±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	±2%	±2%	±1%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	SETUP,RISE TIME	3000ms,50ms/230Vac 3000ms,50ms/115Vac								
	HOLD UP TME(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	9.4~11.3V	13.8~16.2V	18.2~22.5V	25.2-29V	28.8~33.6V	41.4~46.8V	55.2~64.8V	
		Protection type:Hiccup mode,recovers automatically after fault condition is removed								
	OVER TEMPERATURE	Protection type:Hiccup mode,recovers automatically after fault condition is removed								
FUNCTION	FAN ON/OFF CONTROL(Typ.)	RTH2≥50°C FAN ON,≤40°C FAN OFF								
ENVIRONMENT	WORKING TEMP,HUMIDITY	-25~+70°C(Refer to"Derating curve"),20~90%RH non-condensing								

	STORAGE TEMP,HUMIDITY	-20~+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,EN/UL 61558-1		
	Withstand voltage and isolation resistance	I/P-O/P:4KVac;100MΩ/500Vdc	/25°C/70%RH	
		I/P-FG:2KVac;100MΩ/500Vdc	/25°C/70%RH	
		O/P-FG:1.25KVac;100MΩ/500Vdc	/25°C/70%RH	
	Electromagnetic compatibility emission	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 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,criteriaA	
Voltage dips and interruptions		BS EN/EN61000-4-11	>95%dip 0.5 periods,30%dip 25 periods,>95%interruptions 250 periods	
OTHERS	MTBF	≥300Khrs MIL-HDBK-217F(25°C)		
	DIMENSION	215*115*30mm(L*W*H)		
	PACKING	0.75Kg;15pcs/12.25Kg/0.77CUFT		
NOTE	1.All parameters NOT specially mentioned are measured at 230VAC input,rated load and 25°C of ambient temperature			
	2.Ripple &noise are measured at 20MHz of bandwidth by using a 12"twisted pair-wire terminated with a 0.1uF&47uF parallel capacitor			
	3.Tolerance:includes set up tolerance,line regulation and load regulation.			
	4.Line regulation is measured from low line to high line at rated load.			
	5.Load regulation is measured from 0% to 100% rated load			
	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.			
	7.The ambient temperature derating of 5°C/1000m is needed for operating altitude great than 2000m(6500ft)			
	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			

Mechanical specification

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

Position No.	Screw Size	L max	Torque max
⑤ - ⑧	M4	3mm	0.9N · m
① - ④	M4	5mm	0.9N · m

Screw Terminal			
Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4,5,6	DC OUTPUT -
2	AC/N	7,8,9	DC OUTPUT +
3	FG		

Block diagram

