FEATURES

1. Universal AC input 90~264VAC
2. Protections:Short circuit /Overload /Over voltage/Over temperature
3. Can be installed on DIN rail TS-35/7.5 or 15
4. The body width is only 30mm
5. Built-in constant current limit,strong start-up ability
6. 100% full load burn-in test
7. LED indicator for power on
8. High reliability
9. 3 years warranty
10. Compliance to IEC/EN/UL 62368-1,EN61558-1/-2-16

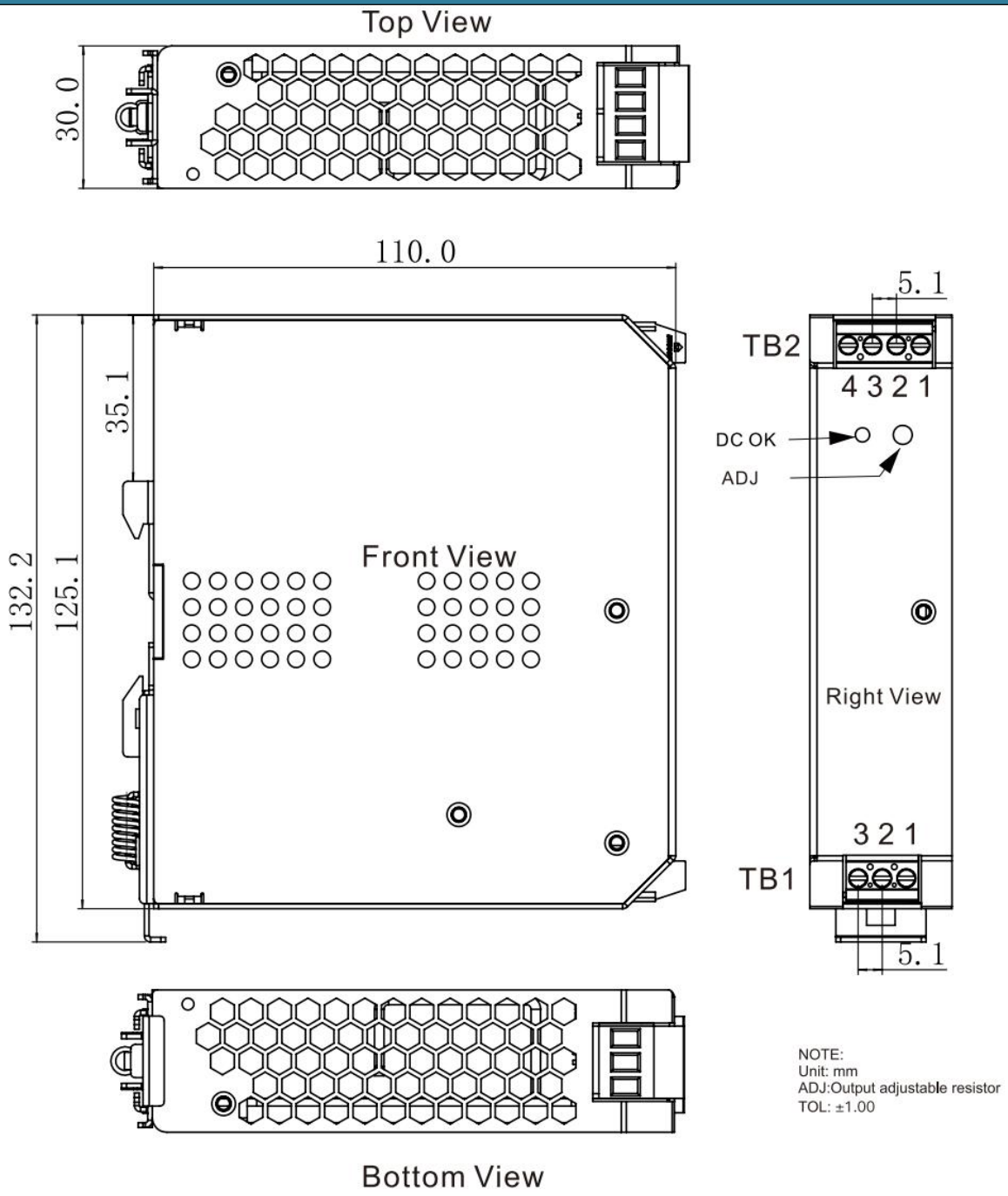
RoHS CE 3 years Warranty

Specification

MODEL		RAI75-12	RAI75-15	RAI75-24	RAI75-36	RAI75-48
INPUT	VOLTAGE RANGE	90～264VAC 127～370VDC(Refer to"Static characteristics")				
	FREQUENCY RANGE	47～63Hz				
	EFFICIENCY(Typ.)	86%	86%	89%	89%	90%
	AC CURRENT(Typ.)	1.5A/115VAC 0.9A/230VAC				
	INRUSH CURRENT(Typ.)	30A/115VAC 55A/230VAC(cold start)				
	LEAKAGE CURRENT	<1mA/240VAC				
OUTPUT	DC VOLTAGE	12V	15V	24V	36V	48V
	RATED CURRENT	6.3A	5.1A	3.2A	2.1A	1.6A
	CURRENT RANGE	0～6.3A	0～5.1A	0～3.2A	0～2.1A	0～1.6A
	RATED POWER	75.6W	76.5W	76.8W	75.6W	76.8W
	RIPPLE&NOISE(max.)	100mVp-p	100mVp-p	120mVp-p	120mVp-p	150mVp-p
	VOLTAGE ADJ.RANGE	12～14V	15～17.5V	24～28v	36～42V	48～55V
	VOLTAGE TOLERANCE	±1.5%	±1.5%	±1%	±1%	±1%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±1.5%	±1.5%	±1%	±1%	±1%
	SETUP,RISE TIME	500ms,50ms/230VAC 500ms,50ms/115VAC				
	HOLD UP TIME(Typ.)	30ms/230VAC 7ms/115VAC				
PROTECTION	OVER LOAD	105%～135%rated output power				
		Protection Mode:constant current limit (output voltage>50%Vo),When the output is less than 5V,the constant current value increases,recovers automatically after fault condition is removed				
	OVER VOLTAGE	15～18V	19～23V	29～33V	43～47V	56～65V
		Protection type:Shut down,recovers after repower on				
	OVER TEMPERATURE	Protection type:Shut down,recovers after repower on;Automatic recovery products are customizable				
ENVIRONMENT	WORKING TEMP,HUMIDITY	-20～+70℃(Refer to"Deratingcurve"),20～90%RH non-condensing				
	STORAGE TEMP.,HUMIDITY	-40~+85℃,10～95%RH				
	TEMP.COEFFICIENT	±0.03%/℃(0～50℃)				
	VIBRATION	10~500Hz,2G 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,EN61558-1,EN61558-2-16				
	Withstand voltage and isolation resistance	I/P-O/P:4.2KVac;100MΩ/500Vdc /25℃/70%RH				

		I/P-FG:2.1KVac;100MΩ/500Vdc /25°C/70%RH		
		O/P-FG:0.5KVac;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 B
		Radiated emission	BS EN/EN55032(CISPR32),FCC PART 15/CISPR22 ,GB9254.1	Class B
		Harmonic current	BS EN/EN61000-3-2,GB17625.1	Class A
		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,criteriaA
		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%dip25 periods,>95%interruptions 250 periods
OTHERS	MTBF	≥400Khrs MIL-HDBK-217F(25°C)		
	DIMENSION	30*125.1*110mm(W*H*D)		
	PACKING	0.45Kg;24pcs/11.8Kg/0.83CUFT		
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 9.Installation clearances:40mm on top,20mm on the bottom,5mm on the left and right side are recommended when loaded permanently with full power. In case the adjacent device is a heat source,15mm clearance is recommended.			

Mechanical specification



NOTE:
Unit: mm
ADJ:Output adjustable resistor
TOL: ±1.00

ADMISSIBLE DIN-RAIL:TS35/7.5 OR TS35/15

Terminal Pin No. Assignment

TB1		TB2	
Pin No.	Assignment	Pin No.	Assignment
1	AC/L	1,2	DC output -V
2	AC/N	3,4	DC output +V
3	FG		

Block diagram