

FEATURES

1. Universal AC input 90~264VAC
2. Built in active PFC function
3. High efficiency up to 95%, low leakage current<0.5mA/240VAC
4. Protections: Short circuit /Overload /Over voltage/Over temperature
5. Can be installed on DIN rail TS-35/7.5 or 15
6. The body width is only 30mm
7. 100% full load burn-in test
8. LED indicator for power on
9. Redundancy function(RAIF240-xx-R)
10. DC OK relay contact(RAIF240-xx-D)
11. High reliability
12. 3 years warranty
13. Compliance to IEC/EN/UL 62368-1



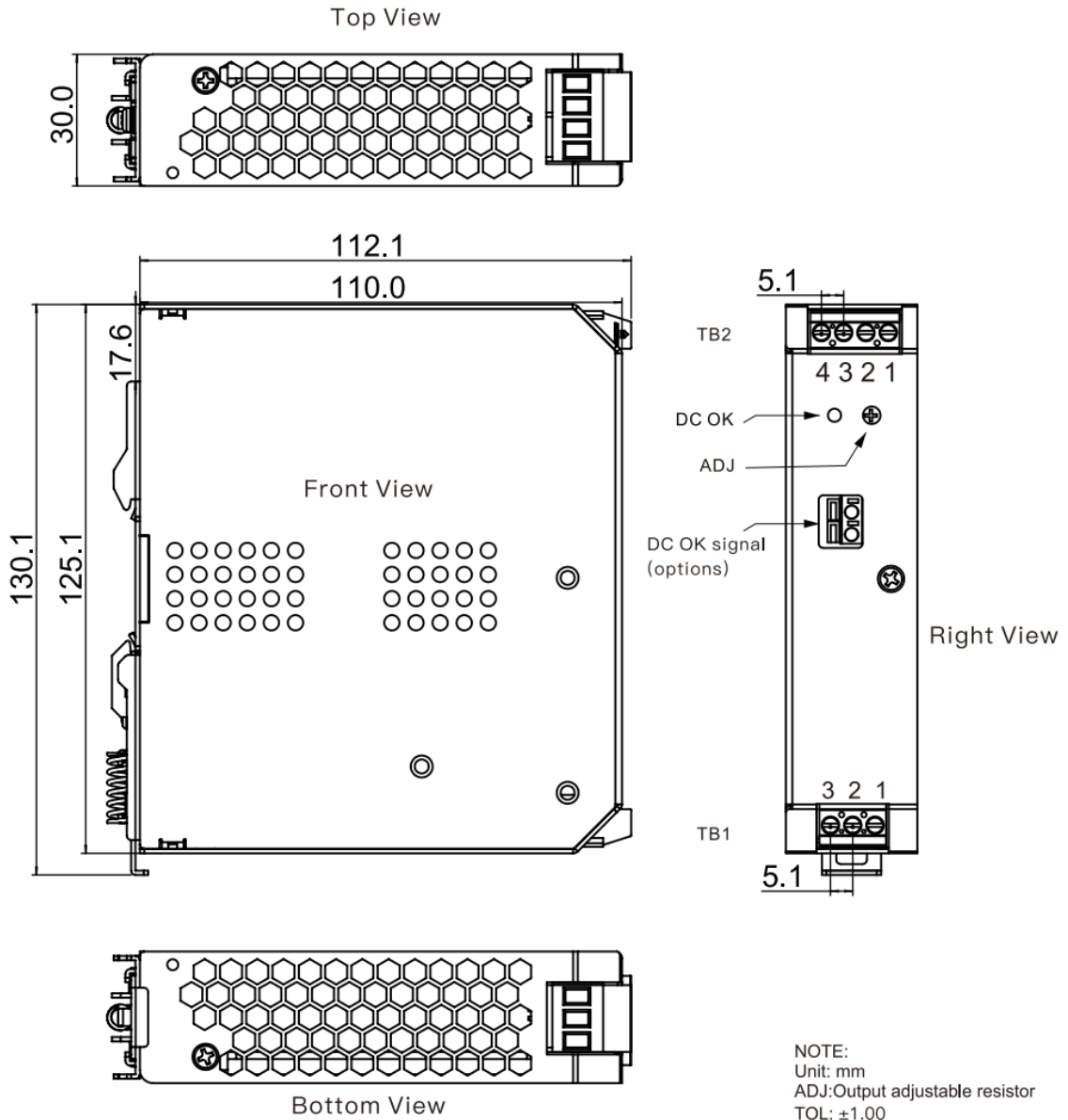
**3 years
Warranty**

Specification

MODEL		RAIF240-12	RAIF240-24	RAIF240-48
INPUT	VOLTAGE RANGE	90~264VAC(Refer to"Static characteristics")127~370VDC(Options)		
	FREQUENCY RANGE	47~63Hz		
	POWER FACTOR(Typ.)	PF>0.99/115VAC PF>0.95/230VAC Full-load		
	EFFICIENCY(Typ.)	93.5%	94.5%	95%
	AC CURRENT(Typ.)	3A/115VAC 1.5A/230VAC		
	INRUSH CURRENT(Typ.)	23A/115VAC 45A/230VAC (cold start)		
	LEAKAGE CURRENT	<0.5mA/240VAC		
OUTPUT	DC VOLTAGE	12V	24V	48V
	RATED CURRENT	16A	10A	5A
	CURRENT RANGE	0~16A	0~10A	0~5A
	RATED POWER	192W	240W	240W
	RIPPLE&NOISE(max.)	150mVp-p	150mVp-p	200mVp-p
	VOLTAGE ADJ.RANGE	12~14V	24~28V	48~55V
	VOLTAGE TOLERANCE	±1%	±1%	±1%
	LINE REGULATION	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±2%	±1%	±1%
	SETUP,RISE TIME	500ms,50ms/230VAC 500ms,50ms/115VAC		
HOLD UP TIME(Typ.)	14ms/230VAC 14ms/115VAC			
PROTECTION	OVER LOAD	130%~160% rated output power Protection Mode:hiccup mode,recovers automatically after fault condition is removed		
	OVER VOLTAGE	15~18V	29~35V	56~65V
	OVER TEMPERATURE	Protection mode:Shut down,recovers after temperature drop		
FUNCTION	DC OK SIGNAL (RAIF240-xx-D)	Contact specifications (max.):30VDC/1A Resistive load		
	REDUNDANCY (RAIF240-xx-R)	Protection for parallel redundancy use:In parallel redundancy applications,when one power supply experiences abnormal shutdown,the other power supply will automatically activate.This can prevent system crashes and increase system reliability		
ENVIRONMENT	WORKING TEMP., HUMIDITY	-30~+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, 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			
	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		
		Radiated emission	BS EN/EN55032(CISPR32), FCC PART 15/CISPR22, GB9254.1		
		Harmonic current	BS EN/EN61000-3-2, GB17625.1		
		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, 15KV air, Level 2, 8KV contact, criteria A	
		RF field susceptibility	BS EN/EN61000-4-3	Level 3, 10V/m, criteria A	
EFT bursts		BS EN/EN61000-4-4	Level 3, 2KV/5KHz, 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, 10V, criteria A		
Magnetic field immunity		BS EN/EN61000-4-8	Level 4, 30A/m, 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	≥300Khrs MIL-HDBK-217F(25°C)			
	DIMENSION	30*125.1*110mm(W*H*D)			
	PACKING	0.6Kg; 24pcs/15.4Kg/0.83CUFT			
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 star, Turing 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 greater 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 union a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives.</p> <p>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 resource. 15mm clearances is recommended.</p>				

Mechanical specification

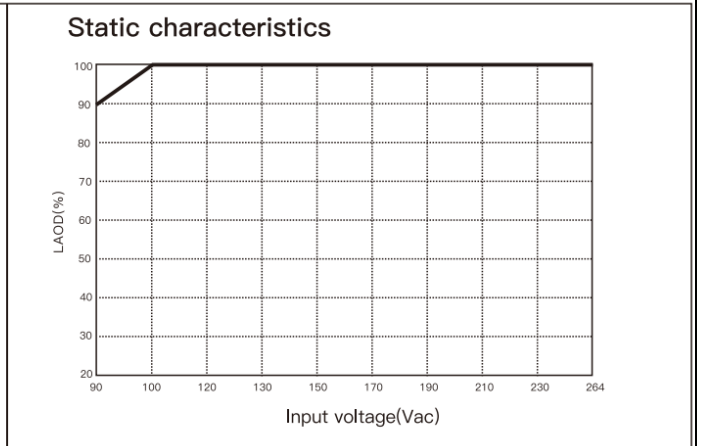
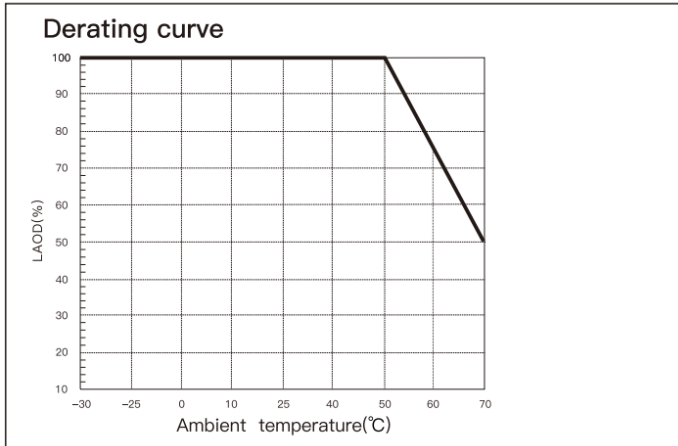
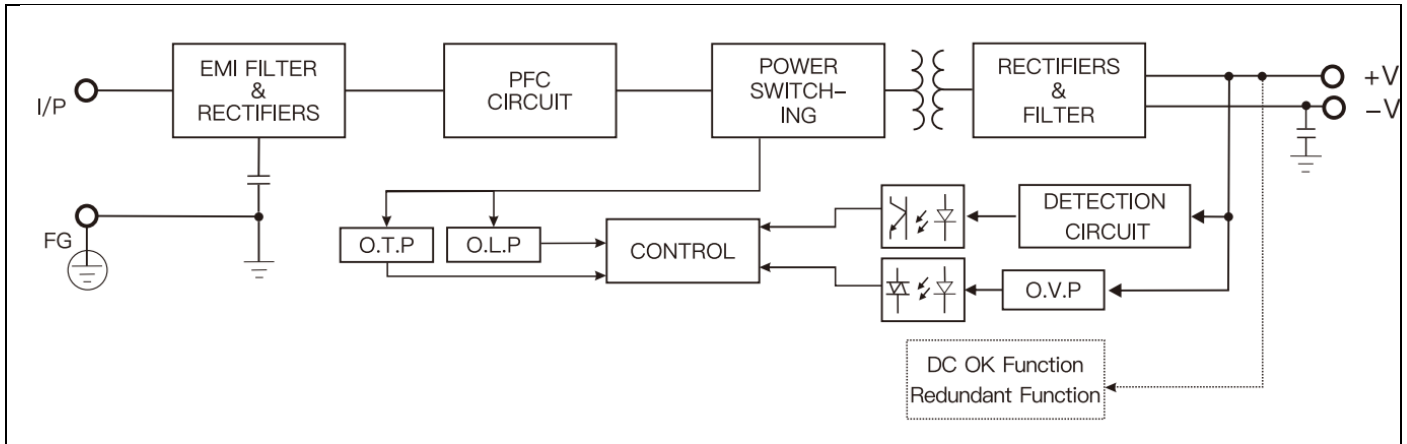


ADMISSIBLE DIN-RAIL: TS35/7.5 或 TS35/15

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

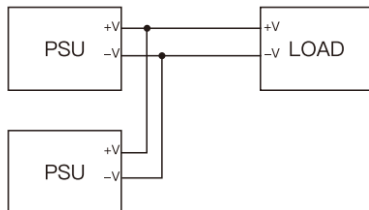


DC OK Relay Contact(Options)RAIF240-xx-D

Contact closure	Power on/DC ok
Contact open	Power off/DC fail
Contact specifications (max.)	30V/1A Resistive load

Redundancy function(Options)RAIF240-xx-R

- 1,Built in redundancy function, capable of parallel connection of 2 single machines
- 2,When running in parallel, the maximum load should not exceed the rated power of any one power source



RAIF240-xx-DR means have the function of DC OK relay and Redundancy function together.