



Features:

- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- · LED indicator for power on
- 100% full load burn-in test
- All using 105°C long life electrolytic capacitors
- Withstand 300VAC surge input for 5 second
- High operating temperature up to 70°C
- · Withstand 5G vibration test
- High efficiency, long life and high reliability
- 3 years warranty

SPECIFICATION



MODEL		RD-125A		RD-125B				
	OUTPUT NUMBER	CH1	CH2	CH1	CH2			
	DC VOLTAGE	5V	12V	5V	24V			
	RATED CURRENT	7.7A	7.7A	4.6A	4.6A			
	CURRENT RANGE Note.6	2 ~ 15A	0.5 ~ 10A	2 ~ 10A	0.4 ~ 5A			
	RATED POWER Note.6	130.9W		133.4W				
OUTDUT	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	80mVp-p 120mVp-p				
OUTPUT	VOLTAGE ADJ. RANGE	CH1: 4.75 ~ 5.5V	1	CH1: 4.75 ~ 5.5V				
	VOLTAGE TOLERANCE Note.3	±5.0%	±7.0%	±5.0%	±7.0%			
	LINE REGULATION Note.4	±1.0%	±2.0%	±1.0%	±2.0%			
	LOAD REGULATION Note.5	±3.0%	±4.0%	±3.0%	±4.0%			
	SETUP, RISE TIME	500ms, 20ms/230VAC 1200ms, 30ms/115VAC at full load						
	HOLD UP TIME (Typ.)	25ms/230VAC 30ms/115VAC at full load						
	VOLTAGE RANGE	88 ~ 132VAC / 176 ~ 264VAC selected by switch 248 ~ 373VDC(Withstand 300VAC surge for 5sec. Without damage)						
	FREQUENCY RANGE	47 ~ 63Hz						
INPUT	EFFICIENCY (Typ.)	82%		85%				
INPUI	AC CURRENT (Typ.)	3A/115VAC 2A/230VAC						
	INRUSH CURRENT (Typ.)	COLD START 40A/230VAC						
	LEAKAGE CURRENT	<2mA / 240VAC						
	2//	110 ~ 150% rated output power						
PROTECTION	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed						
KOILCIION	OVER VOLTAGE	CH1: 5.75 ~ 6.75V						
	OVER VOLIAGE	Protection type : Hiccup mode, recovers automatically after fault condition is removed						
	WORKING TEMP.	-25 ~ +70°C (Refer to output load derating curve)						
	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH						
	TEMP. COEFFICIENT	$\pm 0.03\%$ $^{\circ}$ C (0 ~ 50 $^{\circ}$ C) on +5V output						
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes						
	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 Approved						
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC						
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC						
EMC (Note 7)	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B						
(HARMONIC CURRENT	Compliance to EN61000-3-2,-3						
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN61000-6-2 (EN50082-2) heavy industry level, criteria A						
	MTBF	232.4Khrs min. MIL-HDBK-217F (25°C)						
OTHERS	DIMENSION	199*98*38mm (L*W*H)						
	PACKING	0.7Kg; 20pcs/15Kg/0.8CUFT						
 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 capace. 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 20% to 100% rated load, and other output at 60% rated load.
- 6. Each output can work within current range. But total output power can't exceed rated output power.
- 7. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.
- 8. 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.





Features:

- Protections: Short circuit / Overload / Over voltage
- · Cooling by free air convection
- · LED indicator for power on
- 100% full load burn-in test
- All using 105°C long life electrolytic capacitors
- Withstand 300VAC surge input for 5 second
- High operating temperature up to 70°C
- · Withstand 5G vibration test
- High efficiency, long life and high reliability
- 3 years warranty

SPECIFICATION



MODEL		RD-125-1224		RD-125-1248		RD-125-2448		
OUTPUT NUMBER	CH1	CH2	CH1	CH2	CH1	CH2		
DC VOLTAGE	12V	24V	12V	48V	24V	48V		
RATED CURRENT	3.7A	3.7A	2.3A	2.3A	2A	2A		
CURRENT RANGE Note.6	1 ~ 7A	0.4 ~ 5A	1 ~ 7A	0.2 ~ 2.5A	0.5 ~ 4A	0.2 ~ 2.5A		
RATED POWER Note.6	133.2W		138W		144W			
RIPPLE & NOISE (max.) Note.2	120mVp-p	200mVp-p	120mVp-p	240mVp-p	200mVp-p	240mVp-p		
VOLTAGE ADJ. RANGE	CH1: 11.4 ~ 13.2V		CH1: 11.4 ~ 13.2V		CH1: 22.8 ~ 26.	CH1: 22.8 ~ 26.4V		
VOLTAGE TOLERANCE Note.3	±2.0%	+8,-5%	±2.0%	+8,-5%	±1.0%	±4.0%		
LINE REGULATION Note.4	±0.5%	±1.0%	±0.5%	±1.0%	±0.5%	±1.0%		
LOAD REGULATION Note.5	±1.0%	±5.0%	±1.0%	±5.0%	±1.0%	±3.0%		
SETUP, RISE TIME	500ms, 20ms/230VAC 1200ms, 30ms/115VAC at full load							
HOLD UP TIME (Typ.)	25ms/230VAC 30ms/115VAC at full load							
VOLTAGE RANGE	88 ~ 132VAC / 176 ~ 264VAC selected by switch 248 ~ 373VDC(Withstand 300VAC surge for 5sec. Without damage)							
FREQUENCY RANGE	47 ~ 63Hz							
EFFICIENCY (Typ.)	85% 86%							
AC CURRENT (Typ.)	3A/115VAC 2A/230VAC							
INRUSH CURRENT (Typ.)	COLD START 40A/230VAC							
LEAKAGE CURRENT	<2mA / 240VAC							
	110 ~ 150% rated output power							
OVERLOAD	Protection type : Hic	cup mode, recovers a	automatically after fault condition is removed					
OVED VOLTAGE	CH1: 13.8 ~ 16.2V CH1: 13.8 ~ 16.2V CH1: 27.6 ~ 32.4V							
OVER VULIAGE	Protection type : Hic	cup mode, recovers a	utomatically after fault condition is removed					
WORKING TEMP.	-25 ~ +70°C (Refer to output load derating curve)							
WORKING HUMIDITY	20 ~ 90% RH non-condensing							
STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH							
TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C) on +5V output							
VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes							
SAFETY STANDARDS	UL60950-1, TUV EN60950-1 Approved							
WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC							
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC							
EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B							
HARMONIC CURRENT	Compliance to EN61000-3-2,-3							
EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN61000-6-2 (EN50082-2) heavy industry level, criteria A							
MTBF	218.2Khrs min. MIL-HDBK-217F (25°C)							
DIMENSION	199*98*38mm (L*W*H)							
DIMENSION		/						
	DC VOLTAGE RATED CURRENT CURRENT RANGE Note.6 RIPPLE & NOISE (max.) Note.2 VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE Note.3 LINE REGULATION LINE REGULATION VOLTAGE TOLERANCE VOLTAGE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE FREQUENCY RANGE EFFICIENCY (Typ.) AC CURRENT (Typ.) INRUSH CURRENT (Typ.) LEAKAGE CURRENT OVERLOAD OVER VOLTAGE WORKING TEMP. WORKING HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMI CONDUCTION & RADIATION HARMONIC CURRENT EMS IMMUNITY MTBF	OUTPUT NUMBER CH1 DC VOLTAGE 12V RATED CURRENT 3.7A CURRENT RANGE Note.6 133.2W RIPPLE & NOISE (max.) Note.2 120mVp-p VOLTAGE ADJ. RANGE CH1: 11.4 ~ 13.2V VOLTAGE TOLERANCE Note.3 ±2.0% LINE REGULATION Note.4 ±0.5% LOAD REGULATION Note.5 ±1.0% SETUP, RISE TIME 500ms, 20ms/230VAC HOLD UP TIME (Typ.) 25ms/230VAC VOLTAGE RANGE 88 ~ 132VAC / 176 ~ FREQUENCY RANGE 47 ~ 63Hz EFFICIENCY (Typ.) 85% AC CURRENT (Typ.) 3A/115VAC 2A INRUSH CURRENT (Typ.) COLD START 40A/2 LEAKAGE CURRENT <2mA / 240VAC	OUTPUT NUMBER CH1 CH2 DC VOLTAGE 12V 24V RATED CURRENT 3.7A 3.7A CURRENT RANGE Note.6 1 ~ 7A 0.4 ~ 5A RATED POWER Note.6 133.2W 200mVp-p RIPPLE & NOISE (max.) Note.2 120mVp-p 200mVp-p VOLTAGE ADJ. RANGE CH1: 11.4 ~ 13.2V VOLTAGE TOLERANCE Note.3 ±2.0% +8,-5% LINE REGULATION Note.4 ±0.5% ±1.0% LOAD REGULATION Note.5 ±1.0% ±5.0% SETUP, RISE TIME 500ms, 20ms/230VAC 1200ms, 30ms HOLD UP TIME (Typ.) 25ms/230VAC 30ms/115VAC at full for the street of the s	OUTPUT NUMBER CH1 CH2 CH1 DC VOLTAGE 12V 24V 12V RATED CURRENT 3.7A 3.7A 2.3A CURRENT RANGE Note.6 1 ~ 7A 0.4 ~ 5A 1 ~ 7A RATED POWER Note.6 133.2W 138W RIPPLE & NOISE (max.) Note.2 120mVp-p 200mVp-p 120mVp-p VOLTAGE ADJ. RANGE CH1: 11.4 ~ 13.2V CH1: 11.4 ~ 13.2V CH1: 11.4 ~ 13.2V VOLTAGE TOLERANCE Note.3 ±2.0% +8,-5% ±2.0% LLINE REGULATION ±0.5% ±0.5% ±0.5% LIOAD REGULATION Note.5 ±1.0% ±5.0% ±1.0% ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% ±0.5%	OUTPUT NUMBER CH1 CH2 CH1 CH2 DC VOLTAGE 12V 24V 12V 48V RATED CURRENT 3.7A 3.7A 2.3A 2.3A CURRENT RANGE Note.6 1 ~ 7A 0.4 ~ 5A 1 ~ 7A 0.2 ~ 2.5A RATED POWER Note.6 133.2W 138W 138W RIPPLE & NOISE (max.) Note.2 120mVp-p 200mVp-p 120mVp-p 240mVp-p VOLTAGE ADJ. RANGE CH1: 11.4 ~ 13.2V CH1: 11.4 ~ 13.2V CH1: 11.4 ~ 13.2V VOLTAGE TOLERANCE Note.3 ±2.0% +8.5% ±2.0% +8.5% LINE REGULATION Note.5 ±1.0% ±5.0% ±1.0% ±5.0% SETUP, RISE TIME 500ms, 20ms/230VAC 1200ms, 30ms/115VAC at full load 100ms 20ms/230VAC 25ms/230VAC 30ms/115VAC at full load 400m 48 ~ 373VDC(Withstand 30 FREQUENCY RANGE 48 ~ 373VDC(Withstand 30 47 ~ 63Hz 86% 47 ~ 63Hz 86% 47 ~ 63Hz 47 ~ 63Hz 86% 47 ~ 63Hz 47 ~ 63Hz 47 ~ 63Hz 47 ~ 63Hz	OUTPUT NUMBER CH1 CH2 CH1 CH2 CH1 CH2 CH1 DC VOLTAGE 12V 24V 12V 48V 24V AV 24V 24VV 24VV 24VV 24VV 24VV 24VV 24VV 24VVVPP 200mVPp 200mVPp		

- 3. Tolerance : includes set up tolerance, line regulation and load regulation.
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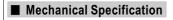
SPECIFICATION



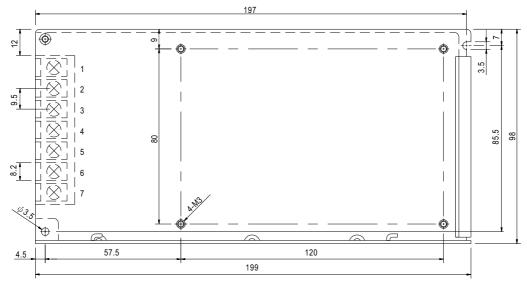
MODEL		RD-125-2412		RD-125-4812		RD-125-4824			
	OUTPUT NUMBER	CH1	CH2	CH1	CH2	CH1	CH2		
	DC VOLTAGE	24V	12V	48V	12V	48V	24V		
	RATED CURRENT	3.7A	3.7A	2.3A	2.3A	2A	2A		
	CURRENT RANGE Note.6	0.5 ~ 5A	1 ~ 7A	0.3 ~ 2.5A	1 ~ 7A	0.3 ~ 2.5A	0.5 ~ 4A		
	RATED POWER Note.6	133.2W		138W		144W			
OUTPUT	RIPPLE & NOISE (max.) Note.2	200mVp-p	120mVp-p	240mVp-p	120mVp-p	240mVp-p	240mVp-p		
OUIPUI	VOLTAGE ADJ. RANGE	CH1: 22.8 ~ 26.4V		CH1: 45.6 ~ 52.8V		CH1: 45.6 ~ 52.8V			
	VOLTAGE TOLERANCE Note.3	±2.0%	±10%	±2.0%	±10%	±1.0%	±8.0%		
	LINE REGULATION Note.4	±0.5%	±1.0%	±0.5%	±1.0%	±0.5%	±1.0%		
	LOAD REGULATION Note.5	±1.0%	±5.0%	±1.0%	±5.0%	±1.0%	±5.0%		
	SETUP, RISE TIME	500ms, 20ms/230VAC 1200ms, 30ms/115VAC at full load							
	HOLD UP TIME (Typ.)	25ms/230VAC 30ms/115VAC at full load							
	VOLTAGE RANGE	88 ~ 132VAC / 176 ~ 264VAC selected by switch 248 ~ 373VDC(Withstand 300VAC surge for 5sec. Without damage)							
INPUT	FREQUENCY RANGE	47 ~ 63Hz							
	EFFICIENCY (Typ.)	85% 86% 86%							
	AC CURRENT (Typ.)	3A/115VAC 2A/230VAC							
	INRUSH CURRENT (Typ.)	COLD START 40A/2	30VAC						
	LEAKAGE CURRENT	<2mA/ 240VAC							
		110 ~ 150% rated output power							
PROTECTION	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed							
PROTECTION	OVER VOLTAGE	CH1: 27.6 ~ 32.4V							
	OVER VOLIAGE	Protection type: Hiccup mode, recovers automatically after fault condition is removed							
	WORKING TEMP.	-25 ~ +70°C (Refer to output load derating curve)							
	WORKING HUMIDITY	20 ~ 90% RH non-condensing							
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH							
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)on +5V output							
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes							
	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 Approved							
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC							
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC							
(Note 7)	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B							
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3							
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN61000-6-2 (EN50082-2) heavy industry level, criteria A							
	MTBF	232.4Khrs min. MIL-HDBK-217F (25°C)							
OTHERS	DIMENSION	199*98*38mm (L*W*H)							
	PACKING	0.7Kg; 20pcs/15Kg/0.8CUFT							
NOTE	2. Ripple & noise are measure	lly mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ed at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. tolerance line regulation and load regulation.							

- 3. Tolerance : includes set up tolerance, line regulation and load regulation.
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Case No. 902A Unit:mm





Terminal Pin No. Assignment

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Pin No.	Assignment	Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DC OUTPUT COM	7	DC OUTPUT +V1
2	AC/N	5	DC OUTPUT +V2		
3	FG ≟	6	DC OUTPUT COM		

■ Derating Curve

■ Static Characteristics

