



Features:

- Protections:Short circuit/Over load/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
- Withstand 5G vibration test
- High efficiency, long life and high reliability
- 3 years warranty

SPECIFICATION



	PD-125A		RD-125R				
OUTDUT NUMBER				OHO			
	-	-	1				
	-			24V			
1.1				4.6A			
		0.5 ~ 10A		0.4 ~ 5A			
` '		120mVp-p	<u> </u>	120mVp-p			
				±7.0%			
				±2.0%			
			±3.0%	±4.0%			
SETUP, RISE TIME	500ms, 20ms/230VAC 1200ms, 30ms/115VAC at full load						
HOLD TIME (Typ.)	36ms/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.)	82%		85%				
AC CURRENT (Typ.)	3A/115VAC 2A/230VAC						
INRUSH CURRENT (Typ.)	COLD START 40A/230VAC						
LEAKAGE CURRENT	<2mA / 240VAC						
	110 ~ 150% rated output power						
OVER LOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed						
	CH1: 5.75 ~ 6.75V	H1: 5.75 ~ 6.75V					
OVER VOLTAGE	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						
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						
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							
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							
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 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 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							
	RATED POWER Note.6 RIPPLE & NOISE (max.) Note.2 VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE Note.3 LINE REGULATION Note.4 LOAD REGULATION Note.5 SETUP, RISE TIME HOLD TIME (Typ.) VOLTAGE RANGE FREQUENCY RANGE EFFICIENCY(Typ.) AC CURRENT (Typ.) INRUSH CURRENT (Typ.) LEAKAGE CURRENT OVER LOAD OVER VOLTAGE WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMI CONDUCTION & RADIATION HARMONIC CURRENT EMS IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT special 2. Ripple & noise are measured 3. Tolerance: includes set up 4. Line regulation is measured 5. Load regulation is measured 6. Each output can work withir	DC VOLTAGE RATED CURRENT 7.7A CURRENT RANGE Note.6 RATED POWER Note.6 RATED POWER Note.6 RATED POWER Note.6 ROUSE (max.) Note.2 80mVp-p VOLTAGE ADJ. RANGE CH1: 4.75 ~ 5.5V VOLTAGE TOLERANCE Note.3 LINE REGULATION Note.4 ±1.0% LOAD REGULATION Note.5 ETUP, RISE TIME HOLD TIME (Typ.) VOLTAGE RANGE FREQUENCY RANGE FREQUENCY RANGE FREQUENCY RANGE FREQUENCY (Typ.) AC CURRENT (Typ.) COLD START 40A/230VAC LEAKAGE CURRENT OVER LOAD OVER LOAD OVER VOLTAGE WORKING TEMP. WORKING HUMIDITY 20 ~ 90% RH non-condensing STORAGE TEMP., HUMIDITY 40 ~ +85°C, 10 ~ 95% RH TEMP. COEFFICIENT DUBONS'C (0 ~ 50°C) on +5V on VIBRATION 10 ~ 500Hz, 5G 10min./1cycle, SAFETY STANDARDS UL60950-1, TUV EN60950-1 AF WITHSTAND VOLTAGE IP-O/P.3KVAC IP-FG: 1:00M EMI CONDUCTION & RADIATION Compliance to EN61000-3-2,-3 EMS IMMUNITY Compliance to EN61000-3-2,-3 EMS IMMUNITY COMPLIANCE CONPLICTOR TO SPORT SAMM (L*W*H) O.7Kg; 20pcs/15Kg/0.8CUFT 1. All parameters NOT specially mentioned are measured at 2. Ripple & noise are measured from 20% to along within current range. But total output course of total output can only within current range. But total output can only within current range. But total output can work within current range. But total out	OUTPUT NUMBER CH1 CH2 DC VOLTAGE 5V 12V RATED CURRENT 7.7A 7.7A CURRENT RANGE Note.6 2 ~ 15A 0.5 ~ 10A RATED POWER Note.6 130.9W 120mVp-p RIPPLE & NOISE (max.) Note.2 2 MmVp-p 120mVp-p VOLTAGE TOLERANCE Note.3 ±5.0% ±7.0% LINE REGULATION Note.4 ±1.0% ±2.0% LOAD REGULATION Note.5 ±3.0% ±4.0% SETUP, RISE TIME 500ms, 20ms/230VAC 1200ms, 30ms/115VAC at full load HOLD TIME (Typ.) 36ms/230VAC 30ms/115VAC at full load VOLTAGE RANGE 88 - 132VAC / 176 ~ 264VAC selected by switch 248 ~ 373 FREQUENCY RANGE 47 ~ 63Hz 2ms/230VAC INRUSH CURRENT (Typ.) 3A/115VAC 2A/230VAC INRUSH CURRENT (Typ.) 3A/115VAC 2A/230VAC INRUSH CURRENT (Typ.) 2-75 ~ 6.75V Protection type: Hiccup mode, recovers automatically after fault WORKING TEMP. 20 ~ 80 % Rth on-condensing STORAGE TEMP.<	OUTPUT NUMBER CH1 CH2 CH1 DC VOLTAGE 5V 12V 5V RATED CURRENT 7.7A 7.7A 4.6A CURRENT RANGE Note.8 2 - 15A 0.5 - 10A 2 - 10A RATED POWER Note.8 130.9W 133.4W 80mVp-p 80mVp-p VOLTAGE ADJ. RANGE CH1: 4.75 - 5.5V CH1: 4.75 - 5.5V CH1: 4.75 - 5.5V VOLTAGE TOLERANCE Note.3 ±5.0% ±7.0% ±5.0% ±5.0% LINE REGULATION Note.3 ±5.0% ±2.0% ±1.0% ±0.0% ±1.0% LOAD REGULATION Note.3 ±3.0% ±2.0% ±1.0% ±0.0% ±1.0% ±0.0% ±1.0% ±0.0% ±1.0% ±0.0% ±1.0% ±0.0% ±1.0% ±0.0% ±1.0% ±0.0% ±1.0% ±0.0% ±1.0% ±0.0% ±1.0% ±0.0% ±1.0% ±0.0% ±1.0% ±0.0% ±1.0% ±0.0% ±0.0% ±0.0% ±0.0% ±0.0% ±0.0% ±0.0% ±0.0% ±			

- 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/Over load/Over voltage
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- All using 105℃ 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	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	
OUTPUT	VOLTAGE ADJ. RANGE	CH1: 11.4 ~ 13.2V		CH1: 11.4 ~ 13.2	CH1: 11.4 ~ 13.2V		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/230VA	C 1200ms, 30n	ns/115VAC at full loa	ad		<u>'</u>	
	HOLD TIME (Typ.)	36ms/230VAC						
	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%		86%	
	AC CURRENT (Typ.)	3A/115VAC 2A/230VAC						
	INRUSH CURRENT (Typ.)	COLD START 40A/230VAC						
	LEAKAGE CURRENT	<2mA/240VAC						
PROTECTION		110 ~ 150% rated output power						
	OVER LOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed						
		CH1: 13.8 ~ 16.2V CH1: 13.8 ~ 16.2V CH1: 27.6 ~ 32.4V						
	OVER VOLTAGE	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						
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC						
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC						
EMC	EMI CONDUCTION & RADIATION							
(Note 7)	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)						
OTHERS	DIMENSION	199*98*38mm (L*W*H)						
	PACKING	0.7Kg; 20pcs/15Kg/0.8CUFT						
NOTE	Ripple & noise are measure Tolerance : includes set up Line regulation is measure Load regulation is measure Each output can work within	eters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. because are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. includes set up tolerance, line regulation and load regulation. ation is measured from low line to high line at rated load. alation is measured from 20% to 100% rated load, and other output at 60% rated load. but can work within current range. But total output power can't exceed rated output power. r supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets						

- 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.



SPECIFICATION



■ Features

- Protections:Short circuit/Over load/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 $70^\circ\!\mathbb{C}$
- Withstand 5G vibration test
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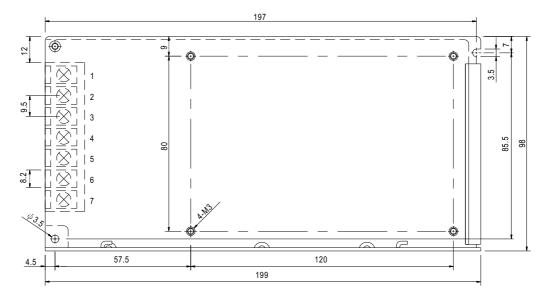
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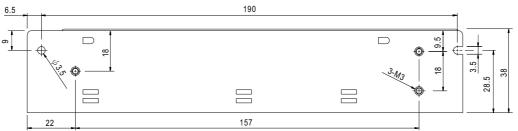
	ATION							
MODEL		RD-125-2412		RD-125-4812	RD-125-4812		RD-125-4824	
	OUTPUT NUMBER	CH1	CH2	CH1	CH2	CH1	CH2	
	DC VOLTAGE	24V	12V	48V	12V	48V	24V	
	RATED CURRENT	3.7A	3.7A	2.3A	2.3A	2A	2A	
	CURRENT RANGE Note.6	0.5 ~ 5A	1 ~ 7A	0.3 ~ 2.5A	1 ~ 7A	0.3 ~ 2.5A	0.5 ~ 4A	
	RATED POWER Note.6	133.2W		138W		144W		
SUTDUT	RIPPLE & NOISE (max.) Note.2	200mVp-p	120mVp-p	240mVp-p	120mVp-p	240mVp-p	240mVp-p	
OUTPUT	VOLTAGE ADJ. RANGE	CH1: 22.8 ~ 26.4V		CH1: 45.6 ~ 52.8	V	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/230VA	AC 1200ms, 30n	ns/115VAC at full load	d			
	HOLD TIME (Typ.)	36ms/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%			
HF U I	AC CURRENT (Typ.)	3A/115VAC 2A/230VAC						
	INRUSH CURRENT (Typ.)	COLD START 40A/230VAC						
	LEAKAGE CURRENT	<2mA/240VAC						
PROTECTION		110 ~ 150% rated output power						
	OVER LOAD	Protection type : Hiccup mode, recovers automatically after fault condition is removed						
		CH1: 27.6 ~ 32.4V						
	OVER VOLTAGE	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						
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC						
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC						
ЕМС	EMI CONDUCTION & RADIATION							
(Note 7)	HARMONIC CURRENT	Compliance to EN61000-3-2,-3						
	EMS IMMUNITY	Compliance to EN6	1000-4-2,3,4,5,6,8.11	; ENV50204, EN610	00-6-2 (EN50082-2)	heavy industry level,	criteria A	
	MTBF		MIL-HDBK-217F (25°C		(,,,	·	
OTHERS	DIMENSION	199*98*38mm (L*W*H)						
	PACKING	0.7Kg; 20pcs/15Kg/	,					
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 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.							



■ Mechanical Specification

Case No. 902A Unit:mm





Terminal Pin. No Assignment

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

