

RD-125 series



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■ 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 $70^{\circ}\!\text{C}$
- · Withstand 5G vibration test
- High efficiency, long life and high reliability
- 3 years warranty



SPECIFICATION

(UL62368-1	BS EN/EN62368-1	CE IEC62368-	1 TPTC004	ϵ	CA	IS13252
	RD-125B						

MODEL		RD-125A		RD-125B				
	OUTPUT NUMBER	CH1	CH2	CH1	CH2			
OUTPUT	DC VOLTAGE	5V	12V	5V	24V			
	RATED CURRENT	7.7A	7.7A	4.6A	4.6A			
	CURRENT RANGE Note.3	0 ~ 12A	0 ~ 10A	0 ~ 10A	0 ~ 5A			
	RATED POWER Note.6	130.9W		133.4W				
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	80mVp-p	120mVp-p			
	VOLTAGE ADJ. RANGE	CH1: 4.75 ~ 5.5V		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 da						
	FREQUENCY RANGE	47 ~ 63Hz						
INPUT	EFFICIENCY (Typ.)	82%		85%				
	AC CURRENT (Typ.)	3A/115VAC 2A/230VAC						
	INRUSH CURRENT (Typ.)	COLD START 50A/230VAC						
	LEAKAGE CURRENT	<2mA/240VAC						
		110 ~ 150% rated output power						
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed						
PROTECTION		CH1: 5.75 ~ 6.75V						
	OVER VOLTAGE	Protection type: Hiccup mode, recovers automatically after fault condition is removed						
	WORKING TEMP.	-25 ~ +70 $^{\circ}$ C (Refer to "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 CH1 output						
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes						
	SAFETY STANDARDS	UL62368-1, TUV BS EN/EN62368-1, IS 13252(Part 1), EAC TP TC 004 approved						
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC						
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH						
(Note 7)	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2(Note 9),-3, EAC TP TC 020						
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, BS EN/EN61000-6-2 (BS EN/EN50082-2), heavy industry level, EAC TP TC 020						
	MTBF	2755.4K hrs min. Telcordia SR-332 (Bellcore) ; 425.8K hrs min. MIL-HDBK-217F (25°C)						
OTHERS	DIMENSION	199*98*38mm (L*W*H)						
	PACKING	0.7Kg; 20pcs/15Kg/0.85CUFT						
	1. All parameters NOT special	y mentioned are measured at 23	30VAC input, rated load and 25	°C of ambient temperature.				

NOTE

- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F & 47 μ F parallel capacitor.
 Tolerance : includes set up tolerance, line regulation and load regulation.(In order to meet tolerance, it is recommended that CH1 load >15% rated current.)
- 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.
- 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. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)
- 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.
- 9. Testing harmonic current at 85%load.
- 10. The ambient temperature derating of 3.5° C/1000m with fanless models and of 5° C/1000m with fan models for operating altitude higher than 2000m(6500ft). ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



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■ Features :

- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
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- 100% full load burn-in test
- * All using 105°C long life electrolytic capacitors
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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.3	0 ~ 7A	0 ~ 5A	0 ~ 7A	0 ~ 2.5A	0 ~ 4A	0 ~ 2.5A		
	RATED POWER Note.6	133.2W		138W		144W			
OUTPUT	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 ~ 26.4V			
	VOLTAGE TOLERANCE Note.3	±2.0%	±8.0%	±2.0%	±8.0%	±1.0%	±6.0%		
	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)							
	FREQUENCY RANGE	47 ~ 63Hz							
NPUT	EFFICIENCY (Typ.)	85%		86%		86%			
NFUI	AC CURRENT (Typ.)	3A/115VAC 2A/230VAC							
	INRUSH CURRENT (Typ.)	COLD START 50A/230VAC							
	LEAKAGE CURRENT	<2mA / 240VAC							
		110 ~ 150% rated output power							
DOTEOTION	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed							
ROTECTION		CH1: 13.8 ~ 16.2V		CH1: 13.8 ~ 16.2V CH1: 27.		CH1: 27.6 ~ 32.4	27.6 ~ 32.4V		
	OVER VOLTAGE	Protection type : Hic	cup mode, recovers a	utomatically after fault condition is removed		<u> </u>			
	WORKING TEMP.	-25 ~ +70 °C (Refer to "Derating Curve")							
	WORKING HUMIDITY	20 ~ 90% RH non-condensing							
NVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH							
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)on CH1 output							
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes							
	SAFETY STANDARDS	UL62368-1, TUV BS EN/EN62368-1, IS 13252(Part 1)(only for RD-125-1224), EAC TP TC 004 approved							
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/F	P-FG:2KVAC O/P-F	G:0.5KVAC					
ЕМС	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH							
Note 7)	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2(Note 9),-3, EAC TP TC 020							
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, BS EN/EN61000-6-2 (BS EN/EN50082-2), heavy industry level, EAC TP TC 020							
	MTBF	2755.4K hrs min. Telcordia SR-332 (Bellcore) ; 425.8K hrs min. MIL-HDBK-217F (25°C)							
OTHERS	DIMENSION	199*98*38mm (L*W*H)							
	PACKING	0.7Kg; 20pcs/15Kg/0.85CUFT							
NOTE	 Ripple & noise are measured Tolerance : includes set up t 	mentioned are measured at 230VAC input, rated load and 25° C of ambient temperature. at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F & 47 μ F parallel capacitor. oblerance, line regulation and load regulation.(In order to meet tolerance, it is recommended that CH1 load > 5% rated current.)							

- 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. 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. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."

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- 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.
- 9. Testing harmonic current at 85%load.
- 10. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft)
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CNUC2368-1 BS EN/EN/62368-1 EC62368-1 PTC004 C E E SI3232

SPECIFIC	ATION			I		T	(only for RD-125-24		
MODEL		RD-125-2412		RD-125-4812		RD-125-4824			
OUTPUT	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.3	0 ~ 5A	0 ~ 7A	0 ~ 2.5A	0 ~ 7A	0 ~ 2.5A	0 ~ 4A		
	RATED POWER Note.6	133.2W		138W		144W			
	RIPPLE & NOISE (max.) Note.2	200mVp-p	120mVp-p	240mVp-p	120mVp-p	240mVp-p	240mVp-p		
	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)							
	FREQUENCY RANGE	47 ~ 63Hz							
NPUT	EFFICIENCY (Typ.)	85%		86%					
	AC CURRENT (Typ.)	3A/115VAC 2A/230VAC							
	INRUSH CURRENT (Typ.)	COLD START 50A/230VAC							
	LEAKAGE CURRENT	<2mA / 240VAC							
		110 ~ 150% rated ou							
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed							
ROTECTION		CH1: 27.6 ~ 32.4V CH1: 55.2 ~ 64.8V CH1: 55.2 ~ 64.8V							
	OVER VOLTAGE	Protection type : Hice	rotection type: Hiccup mode, recovers automatically after fault condition is removed						
	WORKING TEMP.	-25 ~ +70°C (Refer to "Derating Curve")							
	WORKING HUMIDITY	20 ~ 90% RH non-condensing							
NVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH							
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)on CH1 output							
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes							
	SAFETY STANDARDS	UL62368-1, TUV BS EN/EN62368-1, IS 13252(Part 1)(only for RD-125-2412), EAC TP TC 004 approved							
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC							
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH							
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OTHERS	MTBF	2755.4K hrs min. Telcordia SR-332 (Bellcore) ; 425.8K hrs min. MIL-HDBK-217F (25°C)							
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