

SPECIFICATION



MW Search: https://www.meanwell.com/serviceGTIN.aspx

■ 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



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		UL62368-1 BS EN/EN62368-1 IEC62368-1 TPTC004				
	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.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 damage)					
FREQUENCY RANGE	47 ~ 63Hz					
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					
01/50 1/01 74 05	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 "Derating Curve")					
WORKING HUMIDITY	20 ~ 90% RH non-condensing					
STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH					
TEMP. COEFFICIENT	$\pm 0.03\%$ °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, EAC TP TC 004 approved					
WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC					
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH					
EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020					
EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, 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)					
DIMENSION	199*98*38mm (L*W*H)					
PACKING	0.7Kg; 20pcs/15Kg/0.85CUFT					
	DC VOLTAGE RATED CURRENT CURRENT RANGE Note.3 RATED POWER Note.6 RIPPLE & NOISE (max.) Note.2 VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE Note.3 LINE REGULATION Note.5 SETUP, RISE 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 STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF	OUTPUT NUMBER CH1 DC VOLTAGE 5V RATED CURRENT 7.7A CURRENT RANGE Note.3 0 ~ 12A RATED POWER Note.6 130.9W RIPPLE & NOISE (max.) Note.2 80mVp-p VOLTAGE ADJ. RANGE CH1: 4.75 ~ 5.5V VOLTAGE TOLERANCE Note.3 ±5.0% LINE REGULATION Note.4 ±1.0% LOAD REGULATION Note.5 ±3.0% SETUP, RISE TIME 500ms, 20ms/230VAC 120 HOLD UP TIME (Typ.) 25ms/230VAC 30ms/115VA VOLTAGE RANGE 88 ~ 132VAC / 176 ~ 264VAC se FREQUENCY RANGE 47 ~ 63Hz EFFICIENCY (Typ.) 82% AC CURRENT (Typ.) 3A/115VAC 2A/230VAC INRUSH CURRENT (Typ.) COLD START 50A/230VAC LEAKAGE CURRENT <2mA / 240VAC	OUTPUT NUMBER CH1 CH2 DC VOLTAGE 5V 12V RATED CURRENT 7.7A 7.7A CURRENT RANGE Note.3 0 ~ 12A 0 ~ 10A RATED POWER Note.6 130.9W 120mVp-p RIPPLE & NOISE (max.) Note.2 80mVp-p 120mVp-p VOLTAGE ADJ. RANGE CH1: 4.75 ~ 5.5V 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 UP TIME (Typ.) 25ms/230VAC 30ms/115VAC at full load VOLTAGE RANGE 88 ~ 132VAC / 176 ~ 264VAC selected by switch 248 ~ 373 FREQUENCY RANGE 47 ~ 63Hz 25ms/230VAC INRUSH CURRENT (Typ.) 3A/115VAC 2A/230VAC INRUSH CURRENT (Typ.) 3A/115VAC 2A/230VAC LEAKAGE CURRENT <2ma / 240VAC	CH1		

NOTE

- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uf & 47uf 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.
- 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." (as available on http://www.meanwell.com)
- 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. 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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- All using 105[°]C long life electrolytic capacitors
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MODEL		RD-125-1224		RD-125-1248		RD-125-2448			
	OUTPUT NUMBER	CH1	CH2	CH1	CH2	CH1	CH2		
ОИТРИТ	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			
	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							
INPUT	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%			86%				
	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: 13.8 ~ 16.2V					V		
	OVER VOLTAGE	Protection 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							
ENVIRONMENT	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 & EMC (Note 7)	SAFETY STANDARDS	UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004 approved							
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC							
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH							
	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020							
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61000-6-2 (BS EN/EN50082-2), heavy industry level, EAC TP TC 020							
OTHERS	MTBF	2755.4K hrs min. Telcordia SR-332 (Bellcore) ; 425.8K hrs min. MIL-HDBK-217F (25°C)							
	DIMENSION	199*98*38mm (L*W*H)							
	PACKING	0.7Kg; 20pcs/15Kg/0.85CUFT							
NOTE	Ripple & noise are measure Tolerance: includes set up Line regulation is measurec Load regulation is measure Each output can work within The power supply is consid	ly mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. and 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.(In order to meet tolerance, it is recommended that CH1 load > 5% rated currer from low line to high line at rated load. d from 20% to 100% rated load, and other output at 60% rated load. n current range. But total output power can't exceed rated output power. ered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit or te 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 http://www.meanwell.com)

 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. 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).
- $\begin{tabular}{ll} \hline \& Product\ Liability\ Disclaimer: For\ detailed\ information,\ please\ refer\ to\ https://www.meanwell.com/serviceDisclaimer.aspx \end{tabular}$



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- 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
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MODEL		RD-125-2412		RD-125-4812		RD-125-4824			
	OUTPUT NUMBER	CH1	CH2	CH1	CH2	CH1	CH2		
OUTPUT	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							
INPUT	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% 86%							
	AC CURRENT (Typ.)	3A/115VAC 2A/230VAC							
	INRUSH CURRENT (Typ.)	COLD START 50A/230VAC							
	LEAKAGE CURRENT	<2mA / 240VAC							
		110 ~ 150% rated output power							
DDOTECTION	OVERLOAD	Protection type : Hiccup mode, recovers automatically after fault condition is removed							
PROTECTION	0//50 //0/ 74 05	CH1: 27.6 ~ 32.4V CH1: 55.2 ~ 64.8V CH1: 55.2 ~ 64.8V							
	OVER VOLTAGE	Protection type: Hiccup mode, recovers automatically after fault condition is removed							
	WORKING TEMP.	-25 ~ +70°C (Refer to "Derating Curve")							
ENVIRONMENT	WORKING HUMIDITY	20 ~ 90% RH non-condensing							
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH							
	TEMP. COEFFICIENT	$\pm 0.03\%$ °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, EAC TP TC 004 approved							
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/I	P-FG:2KVAC O/P-F0	G:0.5KVAC					
EMC (Note 7)	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P	-FG:100M Ohms / 500	VDC / 25°C / 70% RH					
	EMC EMISSION	Compliance to BS E	N/EN55032 (CISPR32) Class B, BS EN/EN	61000-3-2,-3, EAC TP	TC 020			
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61000-6-2 (BS EN/EN50082-2), heavy industry level, EAC TP TC 020							
	MTBF	2755.4K hrs min.	Telcordia SR-332 (Bel	llcore); 425.8K hrs m	in. MIL-HDBK-217F	= (25°C)			
OTHERS	DIMENSION	199*98*38mm (L*W	*H)						
		0.7Kg; 20pcs/15Kg/0.85CUFT							

NOTE

- 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.(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.
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