



### ■ 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**



MODEL		RD-125A		RD-125B				
ОИТРИТ	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	·			
	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						
INPUT	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						
DDOTECTION	OVERLOAD	Protection type : Hiccup mode, recovers automatically after fault condition is removed						
PROTECTION	OVER VOLTAGE	CH1: 5.75 ~ 6.75V						
	OVER VOLTAGE	Protection type: Hiccup mode, recovers automatically after fault condition is removed						
ENVIRONMENT	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	$\pm 0.03\%$ $^{\circ}$ 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	UL60950-1, TUV EN60950-1 approved						
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC						
EMC (Note 7)	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH						
	EMC EMISSION	Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3						
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, 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 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. 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.





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# **SPECIFICATION**



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.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 ~ 26.4	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							
INPUT	EFFICIENCY (Typ.)	85% 86%							
01	AC CURRENT (Typ.)	3A/115VAC 2A/230VAC							
	INRUSH CURRENT (Typ.)	COLD START 40A/230VAC							
	LEAKAGE CURRENT	<2mA/240VAC							
		110 ~ 150% rated output power							
DDOTEOTION	OVERLOAD	Protection type : Hiccup mode, recovers automatically after fault condition is removed							
PROTECTION	OVED VOLTAGE	CH1: 13.8 ~ 16.2V							
	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	$\pm 0.03\%$ $^{\circ}$ 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	UL60950-1, TUV EN60950-1 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 EN55032 (CISPR32) Class B, EN61000-3-2,-3							
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 (EN50082-2), heavy industry level, criteria A							
OTHERS	MTBF	218.2Khrs min. MIL-HDBK-217F (25°C)							
	DIMENSION	199*98*38mm (L*W*H)							
	PACKING	0.7Kg; 20pcs/15Kg/0.8CUFT							

# NOTE

- 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. 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)

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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	
ОИТРИТ	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 s	witch 248 ~ 373	VDC(Withstand 300VA	AC surge for 5sec. Wi	ithout damage)	
	FREQUENCY RANGE	47 ~ 63Hz						
INPUT	EFFICIENCY (Typ.)	85%		86%		86%		
INPUI	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: Hiccup mode, recovers automatically after fault condition is removed						
PROTECTION		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")						
	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						
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