

Jameco SKU Number: 2106183

RID-125 series



## 125W Dual Output Switching Power Supply



#### Features:

- Isolated output & GND for CH1,CH2
- · AC input range selectable by switch
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Overload / Over voltage
- All using 105℃ long life electrolytic capacitors
- · Withstand 5G vibration test
- · LED indicator for power on
- 100% full load burn-in test
- · High realibility
- 3 years warranty

### **SPECIFICATION**



MODEL		RID-125-1224		RID-125-1248		RID-125-2448	RID-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	<u>'</u>	138W	<u>'</u>	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,-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.)	36ms/230VAC 30ms/115VAC at full load							
INPUT	VOLTAGE RANGE	88 ~ 132VAC / 176 ~ 264VAC selected by switch 248 ~ 373VDC(300VAC peak 5sec. No damage)							
	FREQUENCY RANGE	47 ~ 63Hz							
	EFFICIENCY(Typ.)	85%		85%		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							
	OVERLOAD	Protection type : Hiccup mode, recovers automatically after fault condition is removed							
		CH1: 13.8 ~ 16.2V							
	OVER VOLTAGE	Protection type: Hiccup mode, recovers automatically after fault condition is removed							
ENVIRONMENT	WORKING TEMP.	-20 ~ +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 CH1 output							
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes							
SAFETY & EMC (Note 7)	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 / 25°C / 70% RH							
	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							
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	Ripple & noise are measure     Tolerance: includes set up     Line regulation is measured	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.  I 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.



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#### Features:

- Isolated output & GND for CH1,CH2
- AC input range selectable by switch
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Overload / Over voltage
- 170% peak load for CH1
- All using 105°C long life electrolytic capacitors
- Withstand 5G vibration test
- LED indicator for power on
- 100% full load burn-in test
- High realibility
- 3 years warranty



MODEL		RID-125-1205		RID-125-2405					
	OUTPUT NUMBER	CH1	CH2	CH1	CH2				
	DC VOLTAGE	12V	5V	24V	5V				
	RATED CURRENT	9.2A	3A	4.6A	3A				
	CURRENT RANGE Note.6	2 ~ 10.5A	0 ~ 3A	2 ~ 5.3A	0 ~ 3A				
	PEAK LOAD Note.9	15.6A	3A	7.8A	3A				
OUTPUT	RATED POWER	125.4W		125.4W					
	RIPPLE & NOISE (max.) Note.2	120mVp-p	80mVp-p	120mVp-p	80mVp-p				
	VOLTAGE ADJ. RANGE	CH1: 11.4 ~ 13.2V		CH1: 22.8 ~ 26.4V					
	VOLTAGE TOLERANCE Note.3	±2.0%	±3.0%	±2.0%	±3.0%				
	LINE REGULATION Note.4	±0.5%	±0.5%	±0.5%	±0.5%				
		±1.0%	±2.0%	±1.0%	±2.0%				
	SETUP, RISE TIME		00ms, 30ms/115VAC at full load						
	HOLD UP TIME (Typ.)	35ms/230VAC 30ms/115VAC at full load							
INPUT	VOLTAGE RANGE	88 ~ 132VAC / 176 ~ 264VAC selected by switch 248 ~ 373VDC(300VAC peak 5sec., no damage)							
	FREQUENCY RANGE	47 ~ 63Hz							
	EFFICIENCY(Typ.)	80%		83%					
	AC CURRENT (Typ.)	3A/115VAC 2A/230VAC		3070					
	INRUSH CURRENT (Typ.)	COLD START 40A/230VAC							
	LEAKAGE CURRENT	<2mA / 240VAC							
	LEARAGE CORRECT								
	OVERLOAD	>165% rated output power							
PROTECTION		Protection type: Hiccup mode, recovers automatically after fault condition is removed  CH1: 13.8 ~ 16.2V  CH1: 27.6 ~ 32.4V							
	OVER VOLTAGE	Protection type: Hiccup mode, recovers automatically after fault condition is removed							
		•••	•	condition is removed					
	WORKING TEMP.	-25 ~ +70°C (Refer to output los	ad 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 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 / 25°C / 70% RH							
(Note 7)	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	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 measured.     Tolerance: includes set up.     Line regulation is measured.     Load regulation is measured.     Each output can work within.     The power supply is consid.     EMC directives.     Length of set up time is me.	pole & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.  lerance: includes set up tolerance, line regulation and load regulation.  he regulation is measured from low line to high line at rated load.  had regulation is measured from 20% to 100% rated load, and other output at 60% rated load.  hach output can work within current range. But total output power can't exceed rated output power.  he 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							



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