



Features:

- Isolated output & GND for CH1,CH2
- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- High realibility
- 3 years warranty

SPECIFICATION

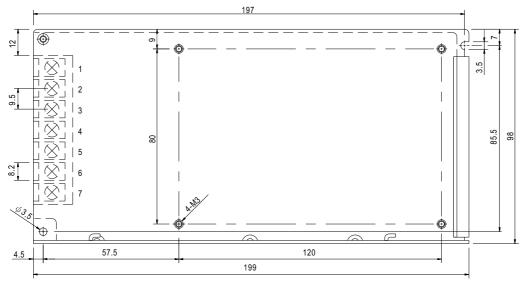


MODEL		RID-125-1224		RID-125-1248		RID-125-2448		
	OUTPUT NUMBER	CH1	CH2	CH1	CH2	CH1	CH2	
	DC VOLTAGE	12V	24V	12V	48V	24V	48V	
	RATED CURRENT	3.7A	3.7A	2.3A	2.3A	2A	2A	
	CURRENT RANGE Note.6	1 ~ 7A	0.4 ~ 5A	1 ~ 7A	0.2 ~ 2.5A	0.5 ~ 4A	0.2 ~ 2.5A	
		133.2W			138W		144W	
	RIPPLE & NOISE (max.) Note.2	120mVp-p	200mVp-p	120mVp-p	240mVp-p	200mVp-p	240mVp-p	
OUTPUT	VOLTAGE ADJ. RANGE	CH1: 11.4 ~ 13.2V		CH1: 11.4 ~ 13.2V		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 lo		oad .				
	VOLTAGE RANGE	88 ~ 132VAC / 176 ~ 264VAC selected by switch 248 ~ 373VDC(300VAC peak 5sec. No damage)						
	FREQUENCY RANGE	47 ~ 63Hz						
INPUT	EFFICIENCY(Typ.)	85% 85% 86%		86%	6%			
	AC CURRENT (Typ.)	3A/115VAC 2A	230VAC	-				
	INRUSH CURRENT (Typ.)	COLD START 40A/230VAC						
	LEAKAGE CURRENT	<2mA/240VAC						
		110 ~ 150% rated output power						
PROTECTION	OVERLOAD	Protection type : Hiccup mode, recovers automatically after fault condition is removed						
PROTECTION	0VED VOLTA 0E	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.	-20 ~ +70°C (Refer to output load derating curve)						
	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 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						
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						
(Note 7)	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						
	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	 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 0.1uf & 47uf parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. Line regulation is measured from low line to high line at rated load. Load regulation is measured from 20% to 100% rated load, and other output at 60% rated load. Each output can work within current range. But total output power can't exceed rated output power. 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. 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



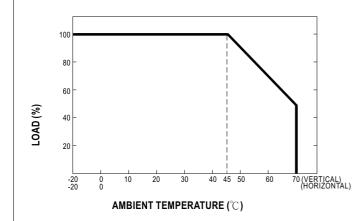


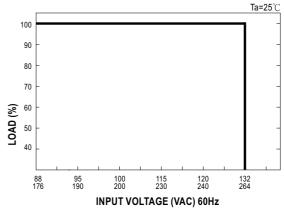
Terminal Pin No. Assignment

	,				
Pin No.	Assignment	Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DC OUTPUT COM2	7	DC OUTPUT +V1
2	AC/N	5	DC OUTPUT +V2		
3	FG ≟	6	DC OUTPUT COM1		

■ Derating Curve

■ Static Characteristics







SPECIFICATION



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
- Free air convection for rated power and 18CFM forced air for 140W
- 180% 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	16.6A	3A	8.3A	3A			
	RATED POWER	125.4W		125.4W				
	RIPPLE & NOISE (max.) Note.2 120mVp-p		80mVp-p	120mVp-p	80mVp-p			
OUTPUT	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%			
	LOAD REGULATION Note.5	±1.0%	±2.0%	±1.0%	±2.0%			
	SETUP, RISE TIME	500ms, 20ms/230VAC 12	00ms, 30ms/115VAC at full load					
	HOLD UP TIME (Typ.)	30ms/230VAC 25ms/115VAC at full load						
	VOLTAGE RANGE	88 ~ 132VAC / 176 ~ 264VAC selected by switch 248 ~ 373VDC(300VAC peak 5sec. No damage)						
	FREQUENCY RANGE	47 ~ 63Hz						
	EFFICIENCY(Typ.)	80% 83%						
INPUT	AC CURRENT (Typ.)	3A/115VAC 2A/230VAC						
	INRUSH CURRENT (Typ.)	COLD START 40A/230VAC						
	LEAKAGE CURRENT	<pre><pre><2mA / 240VAC</pre></pre>						
		>175% rated output power						
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed						
PROTECTION		CH1: 13.8 ~ 16.2V CH1: 27.6 ~ 32.4V						
	OVER VOLTAGE		recovers automatically after faul					
	WORKING TEMP.	Protection type : Hiccup mode, recovers automatically after fault condition is removed -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 EN55022 (CISPR22) Class B						
	EMS IMMUNITY	Compliance to EN61000-3-2,-3						
	MTBF	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN61000-6-2 (EN50082-2) heavy industry level, criteria A						
OTHERS	DIMENSION	218.2Khrs min. MIL-HDBK-217F (25°C) 199*98*38mm (L*W*H)						
	PACKING	0.7Kg; 20pcs/15Kg/0.8CUFT						
NOTE	All parameters NOT special Ripple & noise are measure	lly mentioned are measured at ed at 20MHz of bandwidth by u	230VAC input, rated load and 2 using a 12" twisted pair-wire terr		allel capacitor.			
	Line regulation is measured Load regulation is measured		ited load. d, and other output at 60% rated					
		ach 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						

- 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.
- 9. 10% duty cycle maximum within every second. Average output power should not exceed the rated power, output voltage above 90% DC voltage.



