# 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 $^\circ\!\mathrm{C}$  long life electrolytic capacitors
- Withstand 5G vibration test
- LED indicator for power on
- 100% full load burn-in test
- High realibility
- 3 years warranty



### SPECIFICATION

MODEL		RID-125-1224		RID-125-1248		RID-125-2448		
	OUTPUT NUMBER	CH1	CH2	CH1	CH2	CH1	CH2	
OUTPUT	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 ~ 26.4V		
	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/230VA	C 1200ms, 30n	ns/115VAC at full lo	ad	1		
	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 CH1: 13.8 ~ 16.2V CH1: 27.6 ~ 32.4V						
	OVER VOLTAGE	Protection type : Hiccup mode, recovers automatically after fault condition is removed						
ENVIRONMENT	WORKING TEMP.	-20 ~ +70 $^\circ C$ (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						
	<b>EMI CONDUCTION &amp; RADIATION</b>	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/						
NOTE	<ol> <li>Ripple &amp; noise are measured</li> <li>Tolerance : includes set up</li> <li>Line regulation is measured</li> <li>Load regulation is measured</li> <li>Each output can work within</li> <li>The power supply is considered</li> <li>EMC directives.</li> </ol>	pecially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. assured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. ter up tolerance, line regulation and load regulation. Issured from low line to high line at rated load. asured from 20% to 100% rated load, and other output at 60% rated load. within current range. But total output power can't exceed rated output power. sonsidered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets 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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## 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
- 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



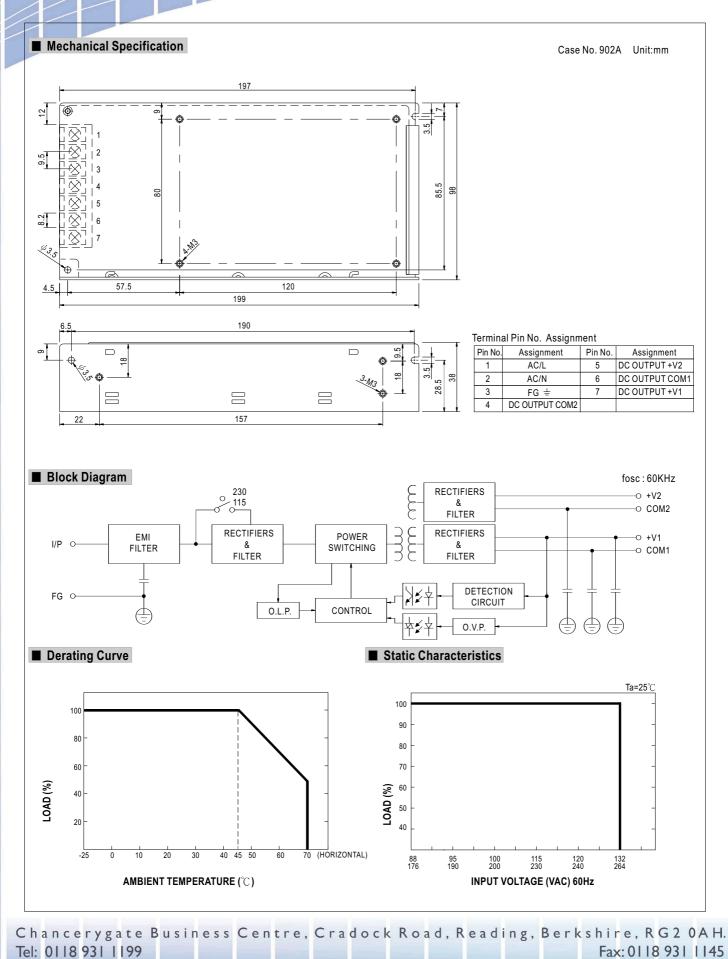
#### **SPECIFICATION**

MODEL		RID-125-1205		RID-125-2405				
OUTPUT	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			
	RATED POWER	125.4W		125.4W				
	RIPPLE & NOISE (max.) Note.2	120mVp-p	80mVp-p	120mVp-p	80mVp-p			
	<b>OLTAGE ADJ. RANGE</b> 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 1200ms, 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						
	INRUSH CURRENT (Typ.)	COLD START 40A/230VAC						
	LEAKAGE CURRENT	<2mA/240VAC						
PROTECTION		>165% rated output power						
	OVERLOAD	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						
ENVIRONMENT	WORKING TEMP.	-25 ~ +70 $^\circ\mathrm{C}$ (Refer to output load derating curve)						
	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
	STORAGE TEMP., HUMIDITY	-40~+85℃, 10~95% RH						
	TEMP. COEFFICIENT	$\pm 0.03\%$ /°C (0 ~ 50°C)on CH1 or	utput					
	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	<ol> <li>All parameters NOT special</li> <li>Ripple &amp; noise are measured</li> <li>Tolerance : includes set up</li> <li>Line regulation is measured</li> <li>Load regulation is measured</li> <li>Each output can work within</li> </ol>	Illy 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. d 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. Incred a companyout which will be unstalled into a final equipment. The final equipment must be reconfirmed that it still mosts.						

Each oùtput 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.
 10% duty cycle maximum within every second. Average output power should not exceed the rated power.

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