

E-Star Power Development Co., Ltd. (E-STAR)

1F., No.40, Juren Ln., Sec. 2, Sanmin Rd., Banciao Dist., New Taipei City

22069, Taiwan (R.O.C.)

Phone: 886-2-2957 5580 Fax: 886-2-2957 7473

125W Enclosed type Dual output power supply > RID-125



■ 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°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	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.3	0 ~ 7A	0 ~ 5A	0~ 7A	0 ~ 2.5A	0 ~ 4A	0 ~ 2.5A		
	RATED POWER Note.6	133.2W		138W		144W	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.	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.)	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%	86%		
	AC CURRENT (Typ.)	3A/115VAC 2A	V230VAC	· · · · · · · · · · · · · · · · · · ·					
	INRUSH CURRENT (Typ.)	COLD START 50A/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 "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	UL62368-1, TUV 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 EN5	5032 (CISPR32) Clas	s B, EN61000-3-2,-	3, EAC TP TC 020				
	EMC IMMUNITY	Compliance to EN6	1000-4-2,3,4,5,6,8,11	, EN61000-6-2 (EN	50082-2), heavy indus	stry level, criteria A, E	AC TP TC 020		
OTHERS	MTBF	218.2Khrs min. MIL-HDBK-217F (25°C)							
	DIMENSION	199*98*38mm (L*W							
	PACKING	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 > 5% 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."
- 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).



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125W Enclosed type Dual output power supply > RID-125



■ 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	RID-125-2405				
	OUTPUT NUMBER	CH1	CH2	CH1	CH2				
ОИТРИТ	DC VOLTAGE	12V	5V	24V	5V				
	RATED CURRENT	9.2A	3A	4.6A	3A				
	CURRENT RANGE Note.6	0 ~ 10.5A	0 ~ 3A	0 ~ 5.3A	0 ~ 3A				
	PEAK LOAD Note.9	IF NOVINCESCALE	3A	7.8A	3A				
	RATED POWER	125.4W		125.4W	1930				
	RIPPLE & NOISE (max.) Note.2	7777671778	80mVp-p	120mVp-p	80mVp-p				
	VOLTAGE ADJ. RANGE	CH1: 11.4 ~ 13.2V	оситр р	CH1: 22.8 ~ 26.4V					
	VOLTAGE TOLERANCE Note.3		±3.0%	±2.0%	±3.0%				
		±0.5%	±0.5%	±0.5%	±0.5%				
		±1.0%	±2.0%	±1.0%	±2.0%				
	SETUP, RISE TIME				±2.070				
	HOLD UP TIME (Typ.)	500ms, 20ms/230VAC 1200ms, 30ms/115VAC at full load 35ms/230VAC 30ms/115VAC at full load							
INPUT	VOLTAGE RANGE	The state of the s							
	FREQUENCY RANGE	88 ~ 132VAC / 176 ~ 264VAC selected by switch 248 ~ 373VDC(300VAC peak 5sec., no damage)							
		47 ~ 63Hz							
	EFFICIENCY(Typ.)	80%		83%					
	AC CURRENT (Typ.)	3A/115VAC 2A/230VAC							
	INRUSH CURRENT (Typ.)	COLD START 50A/230VAC							
	LEAKAGE CURRENT	<2mA / 240VAC							
PROTECTION	OVERLOAD	>165% rated output power							
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed							
	OVER VOLTAGE	CH1: 13.8 ~ 16.2V CH1: 27.6 ~ 32.4V							
	OVER VOLINGE	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	$\pm 0.03\%$ /°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 EN62368-1, EAC TP TC 004 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, EAC TP TC 020							
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 (EN50082-2), heavy industry level, criteria A, EAC TP TC 020							
	MTBF	218.2Khrs min. MIL-HDBK-	217F (25°C)						
OTHERS	DIMENSION	199*98*38mm (L*W*H)							
	PACKING	0.7Kg; 20pcs/15Kg/0.85CUFT							
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 consider a 360mm*360mm metal pla	ad at 20MHz of bandwidth by utolerance, line regulation and I I from low line to high line at rad form 20% to 100% rated loap nourrent range. But total outputered a component which will but with 1mm of thickness. The lease refer to "EMI testing of casured at cold first start. Turnivithin every second. Average of	using a 12" twisted paload regulation. ated load. d, and other output at at power can't exceed be installed into a final if final equipment must component power suping ON/OFF the power judy to your power should no	rated output power. equipment. All the EMC tests are be re-confirmed that it still meets blies." supply very quickly may lead to	Fuf parallel capacitor. be been executed by mounting the unit or EMC directives. For guidance on how				

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