



125W Quad Output Switching Power Supply RQ-125 series





■ 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°C
- Withstand 5G vibration test
- High efficiency, long life and high reliability
- 3 years warranty

SPECIFICATION



MODEL			RQ-125B				RQ-125C				RQ-125D			
ОИТРИТ	OUTPUT NUMBER		CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4
	DC VOLTAGE		5V	12V	-5V	-12V	5V	15V	-5V	-15V	5V	12V	24V	-12V
	RATED CURRENT		11A	4.5A	1A	0.5A	10A	4A	1A	0.5A	8A	2.5A	2A	0.5A
	CURRENT RANGE	Note.6	0 ~ 12A	0 ~ 4.5A	0 ~ 1A	0 ~ 1A	0 ~ 12A	0 ~ 4A	0 ~ 1A	0 ~ 1A	0 ~ 12A	0 ~ 4A	0 ~ 2.5A	0 ~ 1A
	RATED POWER	Note.6	120W				122.5W				124W			
	RIPPLE & NOISE (max.) Note.2		80mVp-p 120mVp-p 80mVp-p 80mVp-p			80mVp-p 120mVp-p 80mVp-p 80mVp-p			80mVp-p 120mVp-p 150mVp-p 80mVp					
	VOLTAGE ADJ. RANGE		CH1: 4.75 ~ 5.5V			CH1: 4.75 ~ 5.5V			CH1: 4.75 ~ 5.5V					
	VOLTAGE TOLERANCE	Note.3	±2.0%	+10,-1%	+6,-10%	±5.0%	±2.0%	+10,-1%	+6,-10%	±5.0%	±2.0%	+10,-1%	±8.0%	±5.0%
	LINE REGULATION	Note.4	±0.5%	±1.0%	±1.0%	±1.0%	±0.5%	±1.0%	±1.0%	±1.0%	±0.5%	±1.0%	±1.0%	±1.0%
	LOAD REGULATION	Note.5	±1.0%	±3.0%	±6.0%	±2.0%	±1.0%	±3.0%	±6.0%	±2.0%	±1.0%	±3.0%	±6.0%	±2.0%
	SETUP, RISE TIME		500ms, 20ms/230VAC 1200ms, 30ms/115VAC at full load											
	HOLD UP TIME (Typ.)	25ms/230VAC 30ms/115VAC at full load												
INPUT	VOLTAGE RANGE		88 ~ 132VAC / 176 ~ 264VAC selected by switch 248 ~ 373VDC(Withstand 300VAC surge for 5sec. Without damage)											
	FREQUENCY RANGE		47 ~ 63H	Z										
	EFFICIENCY (Typ.)		77%				78%				80%			
	AC CURRENT (Typ.)	3A/115VAC 2A/230VAC												
	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											
	OVER VOLTAGE		CH1: 5.75 ~ 6.75V											
			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., HUMI	-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		UL62368	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	ISOLATION RESISTANC	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, EAC TP TC 020											
	EMC IMMUNITY		Complia	nce to EN61	000-4-2,3,4	4,5,6,8,11,	EN61000-6	3-2 (EN500	82-2), heav	y industry le	evel, criteria	a A, EAC T	P TC 020	
-	MTBF		203.1Khi	s min. M	IL-HDBK-2	17F (25°C))							
	DIMENSION		199*98*3	88mm (L*W*	H)									
	PACKING		0.7Kg; 20)pcs/14Kg/0	.8CUFT									
NOTE	All parameters NOT Ripple & noise are m Tolerance : includes Line regulation is me Load regulation is me Leach output can wor The power supply is	neasure set up asurec easure k within	ed at 20M tolerance f from low d from 20 n current i	Hz of band , line regula line to high % to 100% ange. But t	width by us tion and lo line at rate rated load otal output	sing a 12" to ad regulation to a 12" to	wisted pair on. output at of the exceed in	r-wire term 60% rated rated outpu	inated with load. it power.	a 0.1uf & 4	47uf paralle	·		ie unit o

- 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.

 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).





