

MEAN WELL COLOMBIA

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RQ-50 series

50W Quad Output Switching Power Supply



■ Features :

- 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
- 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
- 1 years warranty









SPECIFICATION

MODEL		RQ-50B				RQ-50C				RQ-50D				
	OUTPUT NUMBER	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	
ОИТРИТ	DC VOLTAGE	5V	12V	-5V	-12V	5V	15V	-5V	-15V	5V	12V	24V	-12V	
	RATED CURRENT	5A	1A	0.5A	0.5A	5A	1A	0.5A	0.5A	3A	0.9A	0.9A	0.5A	
	CURRENT RANGE	0 ~ 6A	0~ 1.5A	0 ~ 1A	0 ~ 1A	0 ~ 6A	0 ~ 1.5A	0 ~ 1A	0 ~ 1A	0~ 6A	0 ~ 1.5A	0 ~ 1A	0~1A	
	RATED POWER	45.5W				50W				53.4W				
	RIPPLE & NOISE (max.) Note.2	80mVp-p 120mVp-p 100mVp-p 150mVp-p				80mVp-p 120mVp-p 100mVp-p 150mVp-p			80mVp-p 120mVp-p 180mVp-p 80mVp-p					
	VOLTAGE ADJ. RANGE	CH1: 4.75 ~ 5.5V				CH1: 4.75 ~ 5.5V				CH1: 4.75 ~ 5.5V				
	VOLTAGE TOLERANCE Note.3	±2.0%	±6.0%	±3.0%	±3.0%	±2.0%	±7.0%	±3.0%	±3.0%	±2.0%	±6.0%	±7.0%	±3.0%	
	LINE REGULATION Note.4	±0.5%	±1.5%	±0.5%	±0.5%	±0.5%	±1.5%	±0.5%	±0.5%	±0.5%	±1.5%	±2.0%	±0.5%	
	LOAD REGULATION Note.5	±0.5%	±3.0%	±1.0%	±1.0%	±0.5%	±3.0%	±1.0%	±1.0%	±0.5%	±3.0%	±3.0%	±1.0%	
	SETUP, RISE TIME	500ms, 20	ms/230VA	C 120	0ms, 30ms	/115VAC at	full load							
	HOLD UP TIME (Typ.)	60ms/230VAC 10ms/115VAC at full load												
INPUT	VOLTAGE RANGE	88 ~ 264V	38 ~ 264VAC 125 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage)											
	FREQUENCY RANGE	47~63Hz												
	EFFICIENCY (Typ.)	74%				73%				77%				
	AC CURRENT (Typ.)	1.3A/115\	1.3A/115VAC 0.8A/230VAC											
	INRUSH CURRENT (Typ.)	COLD START 48A/230VAC												
	LEAKAGE CURRENT	<2mA / 240VAC												
PROTECTION	OVERLOAD	110 ~ 150% rated output power												
		Protection type: Hiccup mode, recovers automatically after fault condition is removed												
	OVED VOLTAGE	CH1: 5.75 ~ 6.75V												
	OVER VOLTAGE	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	±0.03%/°	±0.03%/°C (0 ~ 50°C)on +5V output											
	VIBRATION	10 ~ 500H	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 RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH													
(Note 6)	EMC EMISSION	Complian	ce to EN55	032 (CISPI	R32) Class	B, EN6100	0-3-2,-3, E	AC TP TC	020					
	EMC IMMUNITY	Complian	ce to EN61	000-4-2,3,4	4,5,6,8,11,	EN61000-6	-2 (EN5008	32-2), heav	y industry le	evel, criteria	a A, EAC T	P TC 020		
OTHERS	MTBF	162.9Khrs min. MIL-HDBK-217F (25°C)												
	DIMENSION		99*97*36mm (L*W*H)											
	PACKING		•	g/0.9CUFT										
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 0.1 uf & 47 uf paral 										al canacito	r		
	3. Tolerance: includes set up tolerance, line regulation and load regulation.								οι σαρασιίσι					
	4. Line regulation is measured from low line to high line at rated load.													
		Ilation is measured from 0% to 100% rated load. r 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 pla	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, p											r than 200	0m/6E00#\	
	7. 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(6500											υπισουυπ).		



