

## 50W Quad Output Switching Power Supply

RQ-50 series



## Features:

- Universal AC input / Full range
- Protections:Short circuit/Over load/Over voltage
- · Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- All using  $105^{\circ}$  long life electrolytic capacitors
- Withstand 300VAC surge input for 5 second
- Withstand 5G vibration test
- High efficiency, long life and high reliability
- 3 years warranty



MODEL		RQ-50B	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	0.5 ~ 6A	0.2 ~ 1.5/	0 ~ 1A	0 ~ 1A	0.5 ~ 6A	0.2 ~ 1.5A	0 ~ 1A	0 ~ 1A	0.5 ~ 6A	0.2 ~ 1.5	A 0.1 ~ 1A	0 ~1/	
	RATED POWER	45.5W	45.5W				50W				53.4W			
	RIPPLE & NOISE (max.) No	te.2 80mVp-p	2 80mVp-p   120mVp-p   100mVp-p   80mVp-p				80mVp-p 120mVp-p 100mVp-p 80mVp-p				80mVp-p   120mVp-p   180mVp-p   80mV			
	VOLTAGE ADJ. RANGE	DLTAGE ADJ. RANGE CH1: 4.7			11: 4.75 ~ 5.5V			CH1: 4.75 ~ 5.5V			CH1: 4.75 ~ 5.5V			
	VOLTAGE TOLERANCE Not	e.3 ±2.0%	±6.0%	±2.0%	±2.0%	±2.0%	±6.0%	±2.0%	±2.0%	±2.0%	±6.0%	+7,-5%	±2.0	
	LINE REGULATION Not	e.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 Not	e.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, 2	0ms/230V	AC 12	200ms, 30ms	s/115VAC a	_	'	'		<u>'</u>	_		
	HOLD TIME (Typ.)	60ms/23	60ms/230VAC 10ms/115VAC at full load											
INPUT	VOLTAGE RANGE	88 ~ 264	88 ~ 264VAC 125 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage)											
	FREQUENCY RANGE	47 ~ 63H	47 ~ 63Hz											
	EFFICIENCY (Typ.)	74%												
	AC CURRENT (Typ.)	1.3A/115	1.3A/115VAC 0.8A/230VAC											
	INRUSH CURRENT (Typ.)	COLDS	COLD START 36A/230VAC											
	LEAKAGE CURRENT	<2mA/2	<2mA / 240VAC											
PROTECTION		110 ~ 15	110 ~ 150% rated output power											
	OVER LOAD	Protection	Protection type: Hiccup mode, recovers automatically after fault condition is removed											
			CH1: 5.75 ~ 6.75V											
	OVER VOLTAGE	Protection	Protection type: Hiccup mode, recovers automatically after fault condition is removed											
ENVIRONMENT	WORKING TEMP.	-25 ~ +7	-25 ~ +70°C (Refer to output load derating curv											
	WORKING HUMIDITY	20 ~ 90%	6 RH non-c	ondensing		,								
	STORAGE TEMP., HUMIDIT	Y -40 ~ +8	-40 ~ +85°C, 10 ~ 95% RH											
	TEMP. COEFFICIENT	±0.03%/	±0.03%/°C (0 ~ 50°C)on +5V output											
	VIBRATION	10 ~ 500	10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes											
	SAFETY STANDARDS	UL60950	UL60950-1, TUV EN60950-1 Approved											
	WITHSTAND VOLTAGE	I/P-O/P:	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC											
SAFETY &	Y & ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC													
EMC	EMI CONDUCTION & RADIATION	ON Complia												
(Note 6)	HARMONIC CURRENT	Complia	Compliance to EN61000-3-2,-3											
	EMS IMMUNITY	Complia	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN61000-6-2 (EN50082-2) heavy industry level, criteria A											
OTHERS	MTBF	162.9Kh	162.9Khrs min. MIL-HDBK-217F (25°C)											
	DIMENSION	99*97*30	99*97*36mm (L*W*H)											
	PACKING	0.41Kg;	45pcs/19.5	Kg/0.9CUF	T									
NOTE	All parameters NOT spe Ripple & noise are meas Tolerance: includes set Line regulation is measu Load regulation is measu The power supply is cor	sured at 20M up tolerance ired from low ured from 0%	Hz of band , line regulation line to hig 6 to 100%	lwidth by ation and hine at rated load	using a 12" i load regulati ated load.	twisted pa ion.	ir-wire term	inated with	n a 0.1uf &	47uf parall			meets	

