



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
- Withstand 300VAC surge input for 5 second
- Withstand 5G vibration test
- High efficiency, long life and high reliability
- 3 years warranty





SPECIFICATION

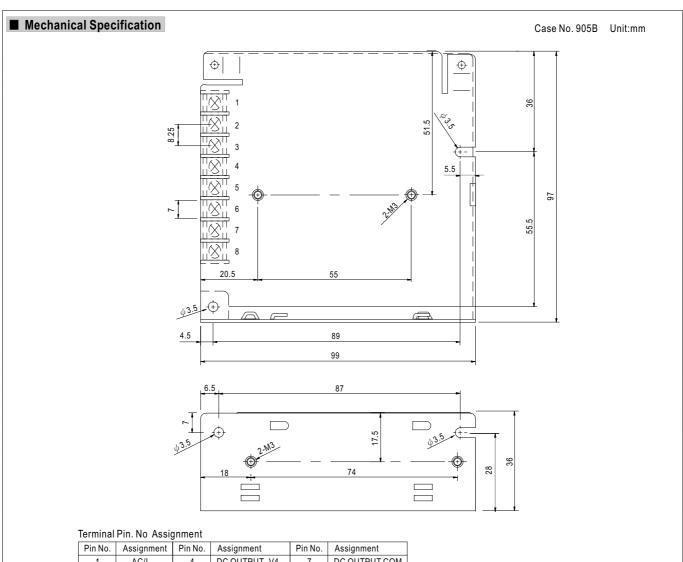
MODEL		RQ-50B				RQ-50C				RQ-50D			
	OUTPUT NUMBER	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4
ОИТРИТ	DC VOLTAGE		12V	-5V	-12V	5V	15V	-5V	-15V	5V	12V	24V	-12V
	RATED CURRENT	5A	1A	0.5A	0.5A	5A	1A	0.5A	0.5A	3A	0.9A	0.9A	0.5A
	CURRENT RANGE	0.5 ~ 6A	0.2 ~ 1.5A	0 ~ 1A	0 ~ 1A	0.5 ~ 6A	0.2 ~ 1.5A	0 ~ 1A	0 ~ 1A	0.5 ~ 6A	0.2 ~ 1.5A	0.1 ~ 1A	0~1A
	RATED POWER	45.5W			50W			53.4W					
	RIPPLE & NOISE (max.) Note.2	80mVp-p 120mVp-p 100mVp-p 80mVp-p				80mVp-p 120mVp-p 100mVp-p 80mVp-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%	±2.0%	±2.0%	±2.0%	±6.0%	±2.0%	±2.0%	±2.0%	±6.0%	+7,-5%	±2.0%
			±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, 20ms/230VAC 1200ms, 30ms/115VAC at full load											
	HOLD TIME (Typ.)	60ms/230VAC 10ms/115VAC at full load											
	VOLTAGE RANGE	88 ~ 264VAC 125 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage)											
INPUT	FREQUENCY RANGE	47 ~ 63Hz											
	EFFICIENCY (Typ.)	74%	74%			75%				79%			
	AC CURRENT (Typ.)	1.3A/115VAC 0.8A/230VAC											
	INRUSH CURRENT (Typ.)	COLD START 36A/230VAC											
	LEAKAGE CURRENT	<2mA / 240VAC											
PROTECTION		110 ~ 150% rated output power											
	OVER LOAD	Protection type : Hiccup mode, recovers automatically after fault condition is removed											
		CH1: 5.75 ~ 6.75V											
	OVER VOLTAGE	Protection type: Hiccup mode, recovers automatically after fault condition is removed											
	WORKING TEMP.	-25 ~ +70°C (Refer to output load derating curve)											
ENVIRONMENT	WORKING HUMIDITY	20 ~ 90% RH non-condensing											
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH											
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50°C)on +5V output											
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes											
	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											
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC											
EMC	EMI CONDUCTION & RADIATION	ON Compliance to EN55022 (CISPR22) Class B											
(Note 6)	HARMONIC CURRENT	Complianc	e to EN61	000-3-2,-3									
	EMS IMMUNITY	Complianc	e to EN61	000-4-2,3,4	1,5,6,8,11; I	ENV50204,	EN61000-6	6-2 (EN500	82-2) heav	y industry le	evel, criteria	a A	
	MTBF	162.9Khrs	min. M	L-HDBK-2	17F (25°C)								
OTHERS	DIMENSION	99*97*36mm (L*W*H)											
	PACKING	0.41Kg; 45	pcs/19.5K	g/0.9CUFT									
NOTE	Ripple & noise are measure Tolerance : includes set up Line regulation is measured Load regulation is measured	ameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. ice: includes set up tolerance, line regulation and load regulation. gulation is measured from low line to high line at rated load. segulation is measured from 0% to 100% rated load. wer supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets											





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Pin No.	Assignment	Pin No.	Assignment	Pin No.	Assignment		
1	AC/L	4	DC OUTPUT -V4	7	DC OUTPUT COM		
2	AC/N	5	DC OUTPUT V3	8	DC OUTPUT +V1		
3	FG ±	6	DC OUTPUT +V2				

■ Output Derating

100 80 60 20 -25 0 10 20 30 40 50 60 70 (VERTICAL) AMBIENT TEMPERATURE (°C)

■ Output Derating VS Input Voltage

