

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





CBCE

SPECIFICATION

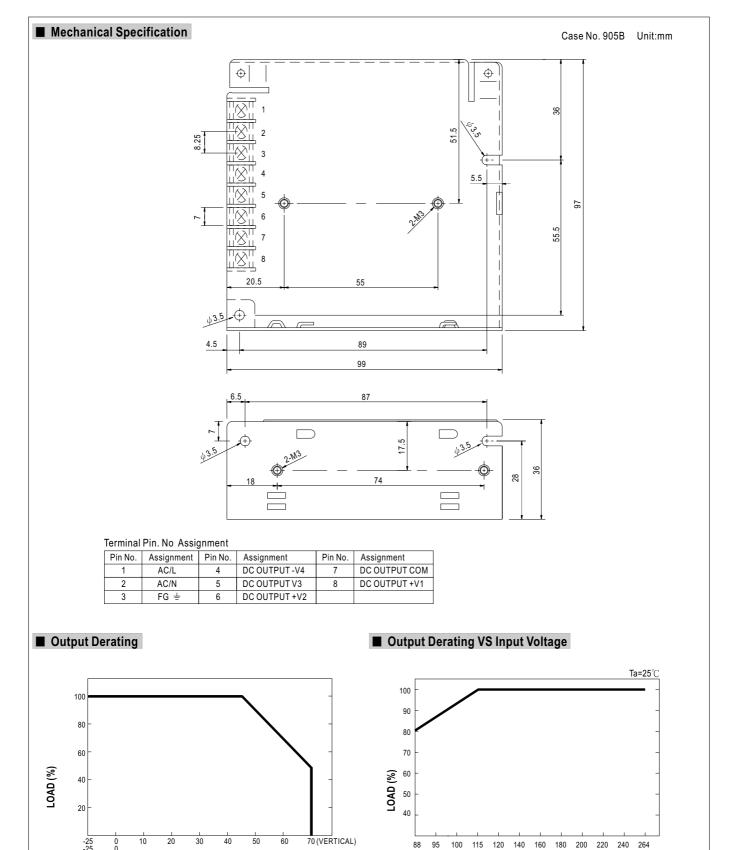
MODEL		RQ-50B				RQ-50C				RQ-50D				
	OUTPUT NUMBER	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	
ОИТРИТ	DC VOLTAGE	5V	12V	-5V	-12V	5V	15V	-5V	-15V	5V	12V	24V	-12V	
	RATED CURRENT	5A	1A	0.5A	0.5A	5A	1A	0.5A	0.5A	3A	0.9A	0.9A	0.5A	
	CURRENT RANGE	0.5 ~ 6A	0.2 ~ 1.5A	0 ~ 1A	0 ~ 1A	0.5 ~ 6A	0.2 ~ 1.5A	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%	
	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	120	0ms, 30ms	/115VAC at	full load							
	HOLD TIME (Typ.)	60ms/230VAC 10ms/115VAC at full load												
INPUT	VOLTAGE RANGE	88 ~ 264V	88 ~ 264VAC 125 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage)											
	FREQUENCY RANGE	47 ~ 63Hz	47 ~ 63Hz											
	EFFICIENCY (Typ.)	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												
	OVER 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 output load derating curve)												
	WORKING HUMIDITY	20 ~ 90% RH non-condensing												
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH												
	TEMP. COEFFICIENT	$\pm 0.03\% l^{\circ}$ C (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	Complian	ce to EN55	022 (CISPF	R22) Class	В								
(Note 6)	HARMONIC CURRENT	Compliance to EN61000-3-2,-3												
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN61000-6-2 (EN50082-2) heavy industry level, criteria A												
OTHERS	MTBF	162.9Khrs min. MIL-HDBK-217F (25℃)												
	DIMENSION		nm (L*W*H	,										
	PACKING		5pcs/19.5K											
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 0.1uf & 47uf parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. 													
	4. Line regulation is measured from low line to high line at rated load.5. Load regulation is measured from 0% to 100% rated load.6. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.											meets		

File Name:RQ-50-SPEC 2006-04-12



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INPUT VOLTAGE (VAC) 60Hz

AMBIENT TEMPERATURE (°C)