

85W Quad Output Switching Power Supply

RQ-85 series



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 $^\circ\!\!\mathbb{C}$ long life electrolytic capacitors
- Withstand 300VAC surge input for 5 second
- High operating temperature up to $70^\circ\!\mathrm{C}$
- Withstand 5G vibration test
- High efficiency, long life and high reliability
- 3 years warranty



SPECIFICATION

MODEL		RQ-85B				RQ-85C				RQ-85D				
	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	7A	3.1A	0.5A	0.5A	7A	2.5A	0.5A	0.5A	6A	2A	1A	0.5A	
	CURRENT RANGE Note.6	2~10A	0.3~4A	0~1A	0~1A	2~10A	0.3 ~ 4A	0~1A	0~1A	2~10A	0.3~4A	0.1~1.5A	0~1A	
	RATED POWER Note.6	80.7W				82.5W				84W				
	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 150mVp-p 80mVp-				
OUTPUT	VOLTAGE ADJ. RANGE	CH1: 4.75 ~ 5.5V				CH1: 4.75 ~ 5.5V				CH1: 4.75 ~ 5.5V				
	VOLTAGE TOLERANCE Note.3	±2.0%	+7,-3%	±8.0%	±5.0%	±2.0%	+3,-7%	±8.0%	±5.0%	±2.0%	+7,-3%	±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%	±5.0%	±2.0%	
	SETUP, RISE TIME	500ms, 20) ms/230VA	.C 12	00ms, 30ms	s/115VAC a	t full load							
	HOLD UP TIME (Typ.)	100ms/23	100ms/230VAC 18ms/115VAC at full load											
INPUT	VOLTAGE RANGE	88 ~ 264VAC 125 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage)												
	FREQUENCY RANGE	47 ~ 63Hz												
	EFFICIENCY (Typ.)	76%				77%				78%				
	AC CURRENT (Typ.)	2.5A/115	/AC 1	.5A/230VA	AC									
	INRUSH CURRENT (Typ.)	COLD ST	COLD START 40A/230VAC											
	LEAKAGE CURRENT	<2mA/24	<2mA / 240VAC											
PROTECTION		110 ~ 150% rated output power												
	OVERLOAD	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												
ENVIRONMENT	WORKING TEMP.	-25 ~ +70	-25 ~ +70 $^\circ\!\mathrm{C}$ (Refer to output load derating curve)											
	WORKING HUMIDITY	20~90%	20 ~ 90% RH non-condensing											
	STORAGE TEMP., HUMIDITY	-40 ~ +85	-40 ~ +85°C, 10 ~ 95% RH											
	TEMP. COEFFICIENT	±0.03%/°0	±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 & EMC (Note 7)	SAFETY STANDARDS	UL60950	UL60950-1, TUV EN60950-1 approved											
	WITHSTAND VOLTAGE	I/P-O/P:3	KVAC I/F	P-FG:1.5K	VAC O/P-	FG:0.5KVA	C							
	ISOLATION RESISTANCE	I/P-O/P, I/	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH											
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B												
	HARMONIC CURRENT	Complian	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	206.8Khrs min. MIL-HDBK-217F (25°C)												
	DIMENSION	159*97*3	3mm (L*W*	*H)										
	PACKING	0.6Kg; 24	0.6Kg; 24pcs/15.4Kg/0.7CUFT											
NOTE	 Ripple & noise are measured Tolerance : includes set up Line regulation is measured Load regulation is measured Each output can work within The power supply is consid EMC directives. For guidann (as available on http://www. 	teres 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. ation is measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. ation is measured from low line to high line at rated load. Jation is measured from 20% to 100% rated load, and other output at 60% rated load. Julation is measured from 20% to 100% rated load, and other output at 60% rated load. Julation is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets ctives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." ble on http://www.meanwell.com) 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.												



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