

## 85W Quad Output Switching Power Supply

# RQ-85 series



GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

#### 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
- 3 years warranty



IS13252 CHARACTER BEENVENE2368-1 IECE2368-1 FTC004

### **SPECIFICATION**

	ATION													
MODEL		RQ-85B				RQ-85C				RQ-85D	RQ-85D			
OUTPUT	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.3	0~10A	0~4A	0~1A	0~1A	0~10A	0~4A	0~1A	0~1A	0~10A	0~4A	0~1.5A	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-				
	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, 20ms/230VAC 1200ms, 30ms/115VAC at full load										•		
	HOLD UP TIME (Typ.)	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/115VAC 1.5A/230VAC												
	INRUSH CURRENT (Typ.)	COLD START 50A/230VAC												
	LEAKAGE CURRENT	<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°C (Refer to "Derating Curve")												
		20 ~ 90% RH non-condensing												
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH												
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)on +5V output												
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes												
SAFETY & EMC (Note 7)	SAFETY STANDARDS	10 ~ 500HZ, 5G 10min.//cycle, period for 60min. each along X, Y, Z axes UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004, BIS IS13252(Part1): 2010/IEC 60950-1:2005 approved												
	WITHSTAND VOLTAGE							52(1 art1). /	2010/12000	5550-1.200		u		
	ISOLATION RESISTANCE	I/P-O/P:3KVAC I/P-FG:2KVAC 0/P-FG:0.5KVAC												
	EMC EMISSION	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020												
	EMC IMMUNITY													
	MTBF	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, BS EN/EN61000-6-2 (BS EN/EN50082-2), heavy industry level, EAC TP TC 020												
OTHERS	DIMENSION	2603.4K hrs min. Telcordia SR-332 (Bellcore) ; 424.2K hrs min. MIL-HDBK-217F (25°C) 159*97*38mm (L*W*H)												
	PACKING													
		0.6Kg; 24pcs/15.4Kg/0.83CUFT y mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.												
NOTE	<ol> <li>Ripple &amp; noise are measured</li> <li>Tolerance: includes set up to for B,C type and CH1 load &gt;</li> <li>Line regulation is measured</li> <li>Load regulation is measured</li> <li>Each output can work within</li> <li>The power supply is conside 360mm "360mm metal plate these EMC tests, please refe</li> <li>Length of set up time is meas</li> <li>The ambient temperature de</li> <li>Yeroduct Liability Disclaimer :</li> </ol>	blerance, lin 15% rated from low lin from 20% current ran red a comp with 1mm c er to "EMI te isured at co rating of 3.5	e regulation current for e to high lin to 100% ra ge. But tota onent which of thickness esting of co ld first start o°C/1000m	n and load i r D type.) ne at rated ted load, at al output po th will be in the final mponent p t. Turning C with fanles	load. nd other ou ower can't e stalled into equipment ower suppli DN/OFF the s models a	(In order to ttput at 60% exceed rated a final equi must be re- ies." (as av- power sup nd of 5°C/1	meet tolera 6 rated load d output po pment. All t confirmed ailable on h ply very qu 000m with	ance, it is re wer. the EMC te that it still n tttps://www. iickly may le fan models	ecommende sts are bee heets EMC meanwell.co ead to incre s for operatii	n executed directives. om//Upload ase of the ng altitude	I load > 20 I by mount For guidan //PDF/EMI_ set up time	ing the unit ice on how _statement_ e.	on a to perfori _en.pdf )	





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MEAN WEL

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Mechanical Specification (Unit: mm, tolerance ± 1mm)



Case No. 901