

## 85W Quad Output Switching Power Supply

RQ-85 series

**Authorized Distributor: Total Power International, Inc.** 

Toll Free: 877-646-0900(US)

PH# (978)453-7272

www.total-power.com



- 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



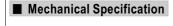


CBCE

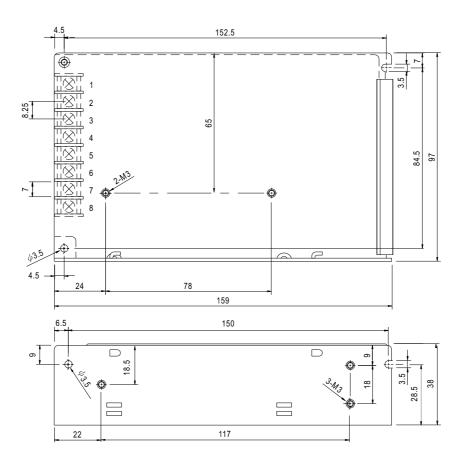
## **SPECIFICATION**

MODEL		RQ-85B				RQ-85C				RQ-85D			
	OUTPUT NUMBER	CH1	CH2	СНЗ	CH4	CH1	CH2	СНЗ	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
		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	
	RATED POWER Note.6					82.5W			84W				
OUTPUT	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-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%	+7,-3%	±8.0%	±5.0%	±2.0%	+3,-7%	±8.0%	±5.0%	±2.0%	+7,-3%	±8.0%	±5.0%
		±0.5%	±1.0%	±1.0%	±1.0%	±0.5%	±1.0%	±1.0%	±1.0%	±0.5%	±1.0%	±1.0%	±1.0%
		±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 120	00ms, 30ms	s/115VAC a	t full load						
	HOLD TIME (Typ.)	100ms/230VAC 18ms/115VAC at full load											
	VOLTAGE RANGE	88 ~ 264VAC 125 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage)											
	FREQUENCY RANGE	47 ~ 63Hz											
INPUT	EFFICIENCY (Typ.)	76%				77%			78%				
	AC CURRENT (Typ.)	2.5A/115VAC 1.5A/230VAC											
	INRUSH CURRENT (Typ.)	COLD START 40A/230VAC											
	LEAKAGE CURRENT	<2mA / 24	<2mA / 240VAC										
	OVER LOAD	110 ~ 150% rated output power											
PROTECTION		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)											
	WORKING HUMIDITY	20 ~ 90% RH non-condensing											
ENVIRONMENT	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 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	Compliance to EN55022 (CISPR22) Class B											
(Note 7)	HARMONIC CURRENT	Complian	ce to EN61	000-3-2,-3									
	EMS IMMUNITY	Complian	ce to EN61	000-4-2,3,4	1,5,6,8,11; I	ENV50204,	EN61000-	6-2 (EN500	082-2) heav	y industry l	evel, criteri	аА	
OTHERS	MTBF	206.8Khrs	min. M	IL-HDBK-2	17F (25°C)								
	DIMENSION	159*97*38mm (L*W*H)											
	PACKING	0.6Kg; 24	pcs/15.4Kg	/0.7CUFT									
NOTE	<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>Tolerance: includes set up tolerance, line regulation and load regulation.</li> <li>Line regulation is measured from low line to high line at rated load.</li> <li>Load regulation is measured from 20% to 100% rated load, and other output at 60% rated load.</li> <li>Each output can work within current range. But total output power can't exceed rated output power.</li> <li>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.</li> <li>Length of 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.</li> </ol>												





Case No. 901 Unit:mm



Terminal Pin. No Assignment

	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				

## **■** Derating Curve

## **■** Static Characteristics

