



■ 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



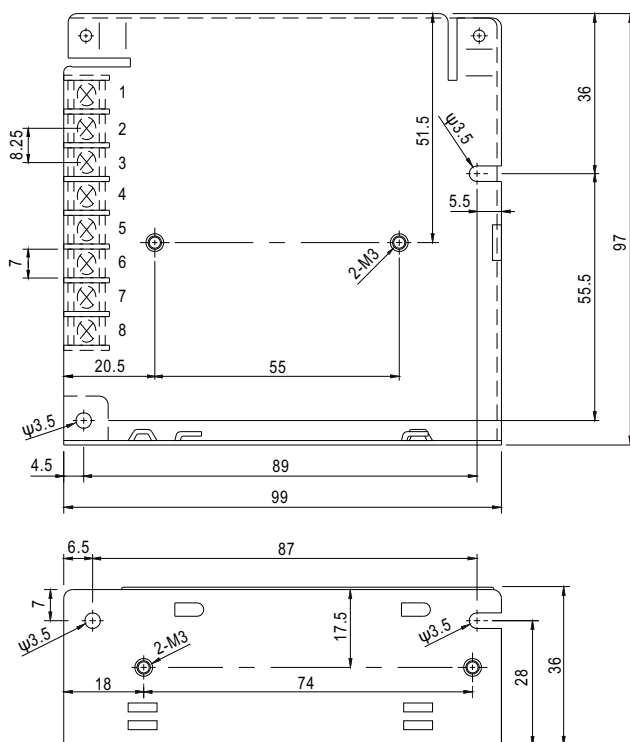
SPECIFICATION

MODEL		RQ-50B				RQ-50C				RQ-50D			
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	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%	±3.0%	±3.0%	±2.0%	±6.0%	±3.0%	±3.0%	±2.0%	±6.0%	+7, 5%	±3.0%
	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%
INPUT	SETUP, RISE TIME	500ms, 20ms/230VAC				1200ms, 30ms/115VAC at full load							
	HOLD UP TIME (Typ.)	60ms/230VAC				10ms/115VAC at full load							
	VOLTAGE RANGE	88 ~ 264VAC				125 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage)							
	FREQUENCY RANGE	47 ~ 63Hz											
	EFFICIENCY (Typ.)	74%				75%				79%			
	AC CURRENT (Typ.)	1.3A/115VAC				0.8A/230VAC							
PROTECTION	INRUSH CURRENT (Typ.)	COLD START 36A/230VAC											
	LEAKAGE CURRENT	<2mA / 240VAC											
	OVERLOAD	110 ~ 150% rated output power											
ENVIRONMENT	OVER VOLTAGE	CH1: 5.75 ~ 6.75V											
	WORKING TEMP.	25 ~ +70°C (Refer to "Derating Curve")											
SAFETY & EMC (Note 6)	WORKING HUMIDITY	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											
OTHERS	SAFETY STANDARDS	UL60950 1, TUV EN60950 1 approved											
	WITHSTAND VOLTAGE	I/P O/P:3KVAC I/P FG:2KVAC O/P FG:0.5KVAC											
	ISOLATION RESISTANCE	I/P O/P, I/P FG, O/P FG:100M Ohms / 500VDC / 25°C/ 70% RH											
	EMC EMISSION	Compliance to EN55032 (CISPR32) Class B, EN61000 3 2, 3											
NOTE	EMC IMMUNITY	Compliance to EN61000 4 2,3,4,5,6,8,11, EN61000 6 2 (EN50082 2), heavy industry level, criteria A											
	MTBF	162.9Khrs min. MIL HDBK 217F (25°C)											
	DIMENSION	99*97*36mm (L*W*H)											
PACKING		0.41Kg; 45pcs/19.5Kg/0.9CUFT											

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair wire terminated with a 0.1uF & 47uF parallel capacitor.
3. 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. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on <http://www.meanwell.com>)

■ Mechanical Specification

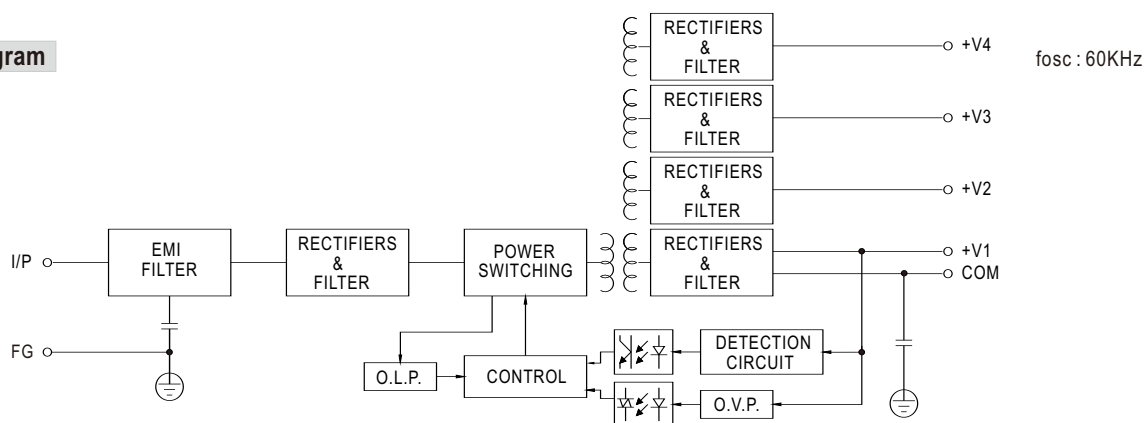
Case No. 905B Unit:mm



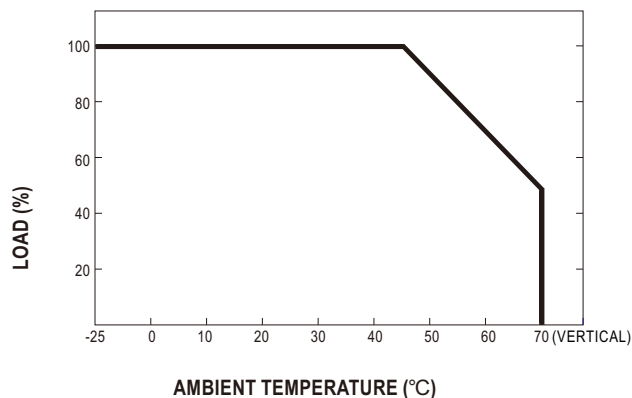
Terminal Pin No. Assignment

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

■ Block Diagram



Derating Curve



■ Output Derating VS Input Voltage

