



**Automatización Eléctrica**

Especialistas en Automatización

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#### ■ 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



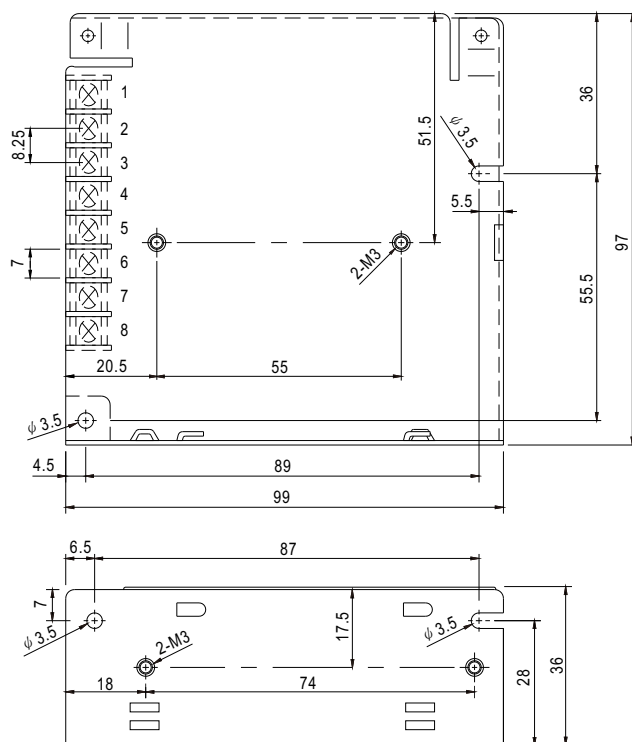
#### SPECIFICATION

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.) <small>Note.2</small>	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 <small>Note.3</small>	±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 <small>Note.4</small>	±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 <small>Note.5</small>	±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:1.5KVAC 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 EN55022 (CISPR22) 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. 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

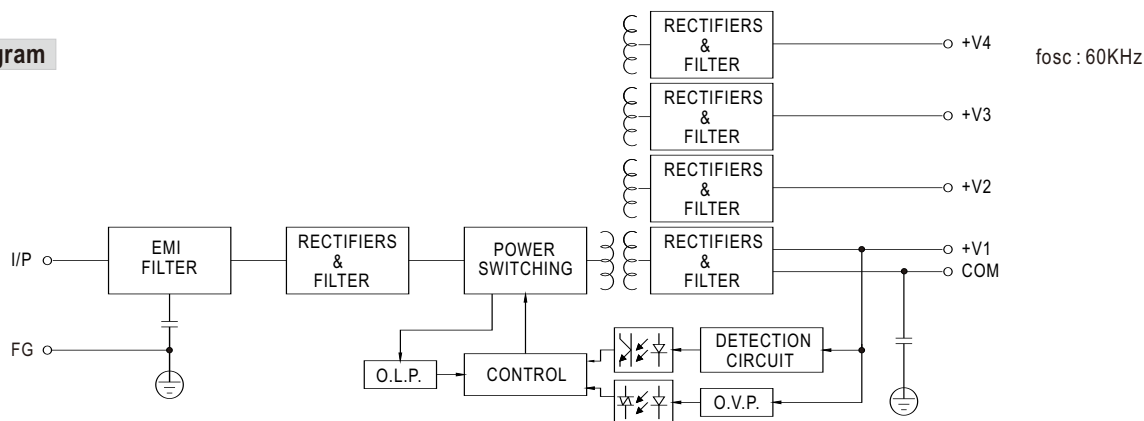
Case No. 905B Unit:mm



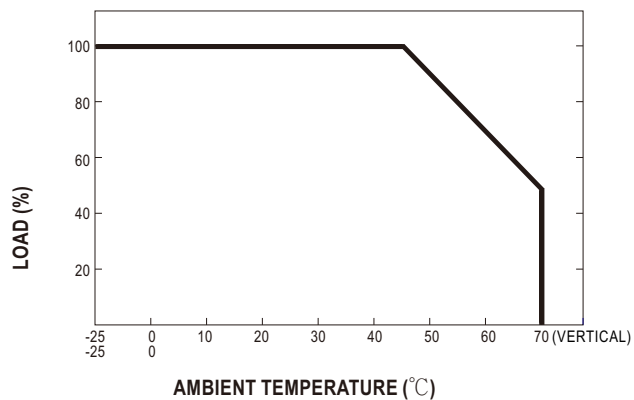
### Terminal Pin No. Assignment

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

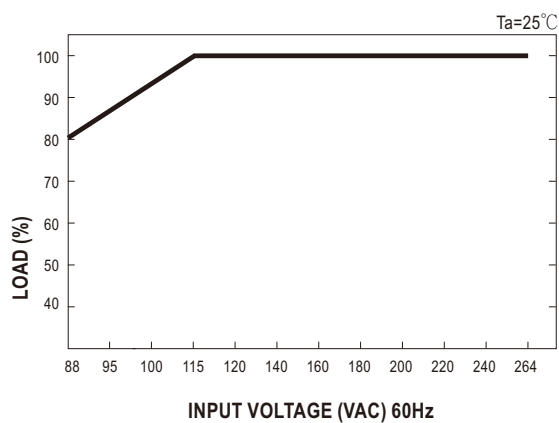
### ■ Block Diagram



### Derating Curve



### ■ Output Derating VS Input Voltage





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Product	Code	Reference	Product link
Input: 88-264 AC / 125-373 DC, Output: 4, V1: 5, A1: 6, V2: 12, A2: 1,5, V3: -5, A3: 1, V4: -12, A4: 1	RQ50B	RQ-50B	<a href="#">Buy on EAN</a>
Input: 88-264 AC / 125-373 DC, Output: 4, V1: 5, A1: 6, V2: 15, A2: 1,5, V3: -5, A3: 1, V4: -15, A4: 1	RQ50C	RQ-50C	<a href="#">Buy on EAN</a>
Input: 88-264 AC / 125-373 DC, Output: 4, V1: 5, A1: 6, V2: 12, A2: 1,5, V3: 24, A3: 1, V4: -12, A4: 1	RQ50D	RQ-50D	<a href="#">Buy on EAN</a>