



- 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

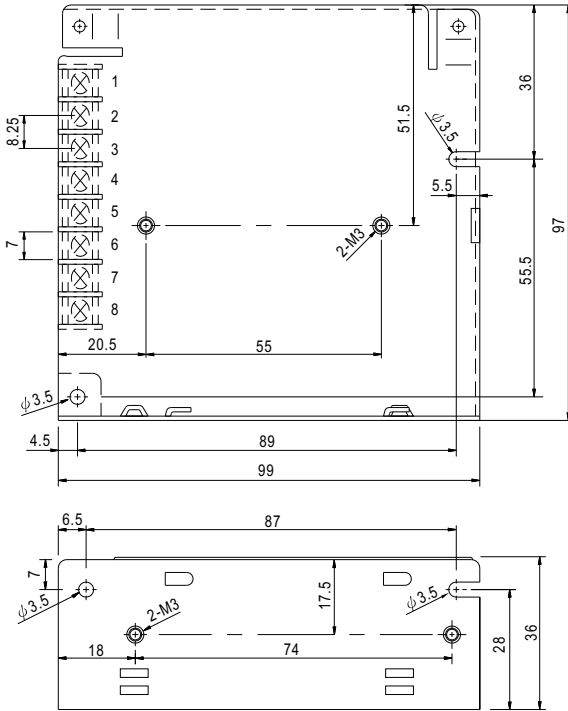


**SPECIFICATION**

MODEL	RT-50A			RT-50B			RT-50C			RT-50D		
OUTPUT NUMBER	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3
<b>DC VOLTAGE</b>	5V	12V	-5V	5V	12V	-12V	5V	15V	-15V	5V	24V	12V
<b>RATED CURRENT</b>	4A	2A	0.5A	4A	2A	0.5A	4A	1.5A	0.5A	3A	1A	1A
<b>CURRENT RANGE</b>	0.5 ~ 5A	0.2 ~ 2.5A	0.1 ~ 1A	0.5 ~ 5A	0.2 ~ 2.5A	0.1 ~ 1A	0.5 ~ 5A	0.2 ~ 2A	0.1 ~ 1A	0.5 ~ 5A	0.2 ~ 1.5A	0.1 ~ 1A
<b>RATED POWER</b>	46.5W			50W			50W			51W		
<b>RIPPLE &amp; NOISE (max.)</b> Note.2	80mVp-p	120mVp-p	100mVp-p	80mVp-p	120mVp-p	120mVp-p	80mVp-p	120mVp-p	120mVp-p	80mVp-p	150mVp-p	120mVp-p
<b>VOLTAGE ADJ. RANGE</b>	CH1: 4.75 ~ 5.5V			CH1: 4.75 ~ 5.5V			CH1: 4.75 ~ 5.5V			CH1: 4.75 ~ 5.5V		
<b>VOLTAGE TOLERANCE</b> Note.3	±2.0%	±6.0%	±2.0%	±2.0%	±6.0%	±2.0%	±2.0%	+8,-4%	±2.0%	±2.0%	+8,-4%	±6.0%
<b>LINE REGULATION</b> Note.4	±0.5%	±1.5%	±0.5%	±0.5%	±1.5%	±0.5%	±0.5%	±1.5%	±0.5%	±0.5%	±2.0%	±2.0%
<b>LOAD REGULATION</b> Note.5	±1.0%	±3.0%	±1.0%	±1.0%	±3.0%	±1.0%	±1.0%	±3.0%	±1.0%	±1.0%	±3.0%	±4.0%
<b>SETUP, RISE TIME</b>	500ms, 20ms/230VAC			1200ms, 30ms/115VAC at full load								
<b>HOLD UP TIME (Typ.)</b>	60ms/230VAC			10ms/115VAC at full load								
<b>VOLTAGE RANGE</b>	88 ~ 264VAC			125 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage)								
<b>FREQUENCY RANGE</b>	47 ~ 63Hz											
<b>EFFICIENCY (Typ.)</b>	77%			77%			78%			80%		
<b>AC CURRENT (Typ.)</b>	1.3A/115VAC			0.8A/230VAC								
<b>INRUSH CURRENT (Typ.)</b>	COLD START 36A/230VAC											
<b>LEAKAGE CURRENT</b>	<2mA / 240VAC											
<b>OVERLOAD</b>	110 ~ 150% rated output power			Protection type : Hiccup mode, recovers automatically after fault condition is removed								
<b>OVER VOLTAGE</b>	CH1: 5.75 ~ 6.75V			Protection type : Hiccup mode, recovers automatically after fault condition is removed								
<b>WORKING TEMP.</b>	-25 ~ +70°C (Refer to output load derating curve)											
<b>WORKING HUMIDITY</b>	20 ~ 90% RH non-condensing											
<b>STORAGE TEMP., HUMIDITY</b>	-40 ~ +85°C, 10 ~ 95% RH											
<b>TEMP. COEFFICIENT</b>	±0.03%/°C (0 ~ 50°C) on +5V output											
<b>VIBRATION</b>	10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes											
<b>SAFETY STANDARDS</b>	UL60950-1, TUV EN60950-1 approved											
<b>WITHSTAND VOLTAGE</b>	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC											
<b>ISOLATION RESISTANCE</b>	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH											
<b>EMI CONDUCTION &amp; RADIATION</b>	Compliance to EN55022 (CISPR22) Class B											
<b>HARMONIC CURRENT</b>	Compliance to EN61000-3-2,-3											
<b>EMS IMMUNITY</b>	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN61000-6-2 (EN50082-2), heavy industry level, criteria A											
<b>MTBF</b>	169.2Khrs min. MIL-HDBK-217F (25°C)											
<b>DIMENSION</b>	99*97*36mm (L*W*H)											
<b>PACKING</b>	0.41Kg; 45pcs/19.5Kg/0.9CUFT											
<b>NOTE</b>	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 <a href="http://www.meanwell.com">http://www.meanwell.com</a> )											

**Mechanical Specification**

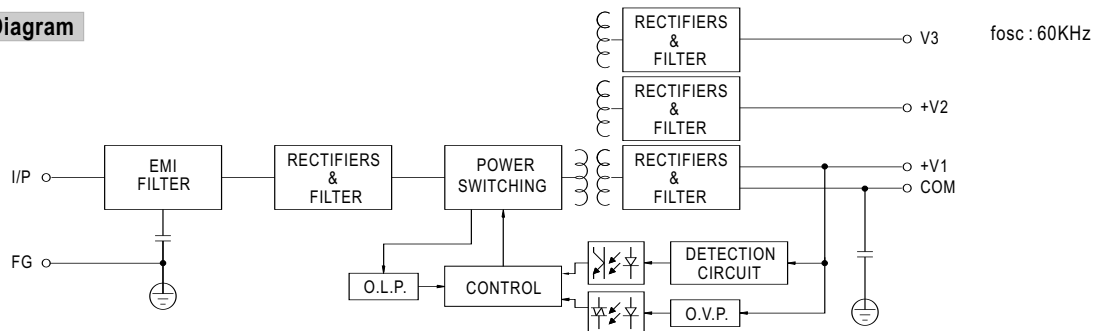
Case No. 905B Unit:mm



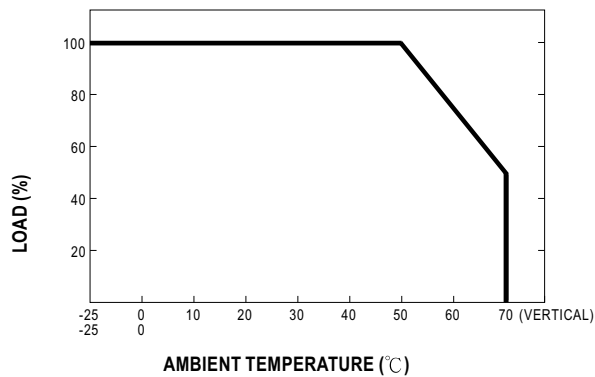
Terminal Pin No. Assignment

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

**Block Diagram**



**Derating Curve**



**Output Derating VS Input Voltage**

