



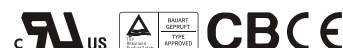
## 50W Triple Output Switching Power Supply

# RT-50 series



### 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 long life electrolytic capacitors  
 Withstand 300VAC surge input for 5 second  
 High operating temperature up to 70  
 Withstand 5G vibration test  
 High efficiency, long life and high reliability  
 3 years warranty

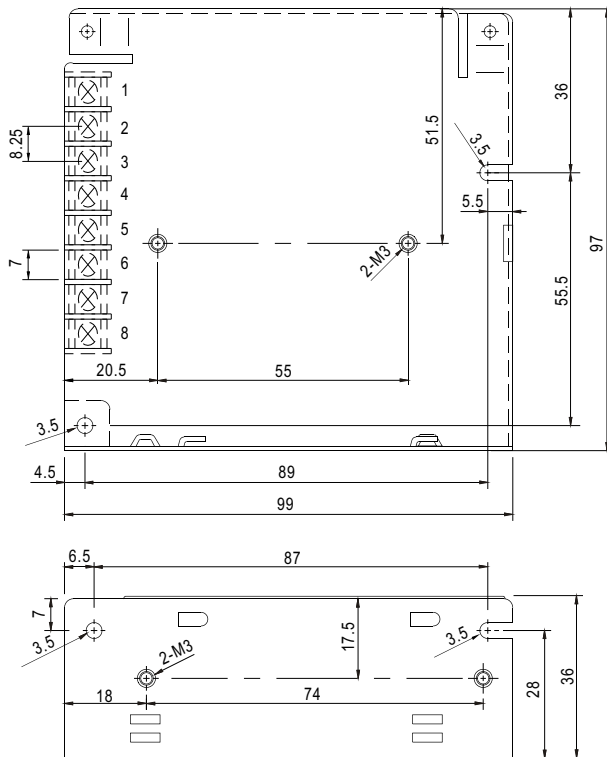


### SPECIFICATION

MODEL		RT-50A			RT-50B			RT-50C			RT-50D		
OUTPUT	OUTPUT NUMBER	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3
	DC VOLTAGE	5V	12V	-5V	5V	12V	-12V	5V	15V	-15V	5V	24V	12V
	RATED CURRENT	4A	2A	0.5A	4A	2A	0.5A	4A	1.5A	0.5A	3A	1A	1A
	CURRENT RANGE	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
	RATED POWER	46.5W			50W			50W			51W		
	RIPPLE & NOISE (max.) 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
	VOLTAGEADJ. RANGE	CH1: 4.75 ~ 5.5V			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%	± 2.0%	± 6.0%	± 3.0%	± 2.0%	+8,-4%	± 3.0%	± 2.0%	+ 8,-4%	± 6.0%
	LINE REGULATION 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%
	LOAD REGULATION 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%
SETUP, RISETIME	500ms, 20ms/230VAC      1200ms, 30ms/115VAC    at full load												
HOLD UP TIME (Typ.)	60ms/230VAC      10ms/115VAC    at full load												
INPUT	VOLTAGERANGE	88 ~ 264VAC      125~ 373VDC (Withstand 300VACsurge for 5sec. Without damage)											
	FREQUENCY RANGE	47 ~ 63Hz											
	EFFICIENCY (Typ.)	77%			77%			78%			80%		
	AC CURRENT (Typ.)	1.3A/115VAC      0.8A/230VAC											
	INRUSH CURRENT (Typ.)	COLD START 36A/230VAC											
	LEAKAGE CURRENT	<2mA / 240VAC											
PROTECTION	OVERLOAD	110 ~ 150% ratedoutput power Protection type : Hiccup mode, recoversautomatically after fault condition is removed											
	OVER VOLTAGE	CH1: 5.75 ~ 6.75V Protection type : Hiccup mode, recoversautomatically after fault condition is removed											
	WORKING TEMP.	-25 ~ +70    (Refer to "Derating Curve")											
ENVIRONMENT	WORKING HUMIDITY	20 ~ 90% RH non-condensing											
	STORAGE TEMP., HUMIDITY	-40 ~ +85    , 10 ~ 95% RH											
	TEMP. COEFFICIENT	± 0.03%/    (0 ~ 50    )on +5V output											
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes											
SAFETY & EMC (Note 6)	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    / 70% RH											
	EMC EMISSION	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2,-3											
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 (EN50082-2), heavy industry level, criteriaA											
OTHERS	MTBF	169.2Khrs min.    MIL-HDBK-217F (25    )											
	DIMENSION	99*97*36mm (L*W*H)											
	PACKING	0.41Kg; 45pcs/19.5Kg/0.9CUFT											
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25    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> )												

Case No. 905B Unit:mm

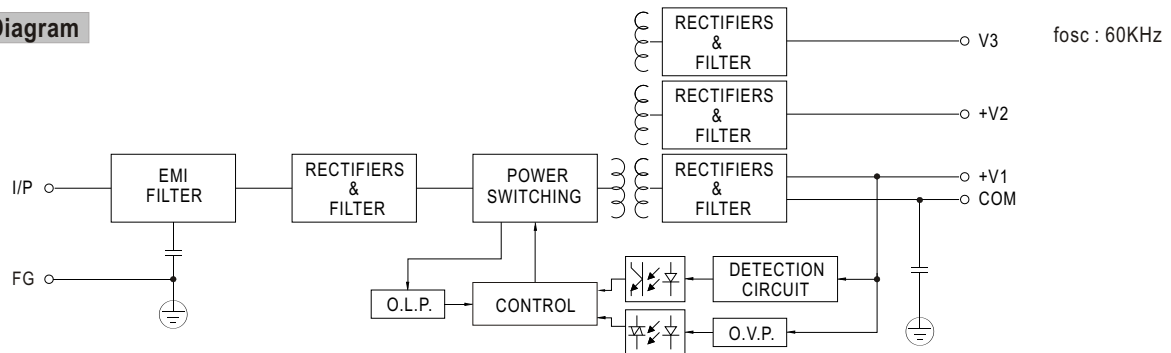
### Mechanical Specification



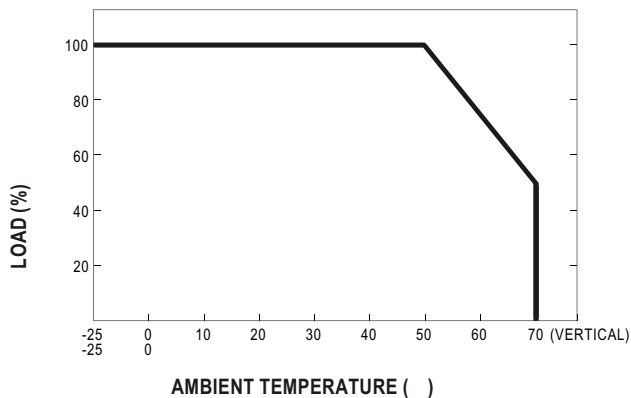
Terminal Pin No. Assignment

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	NC	8	DC OUTPUT +V1

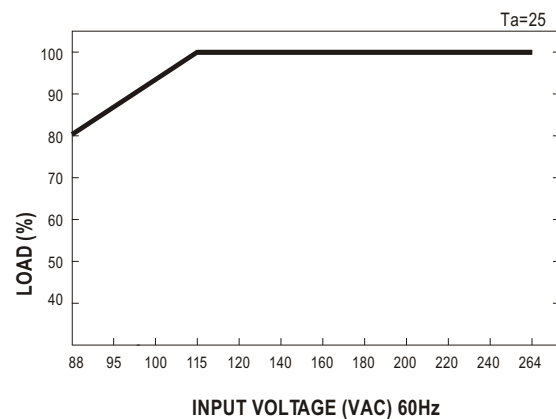
### Block Diagram



### Derating Curve



### Output Derating VS Input Voltage



# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Mean Well:](#)

[RT-50C](#) [RT-50B](#) [RT-50D](#) [RT-50A](#)