



125W Triple Output Switching Power Supply

RT-125 series



■ Features :

- 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

User's Manual

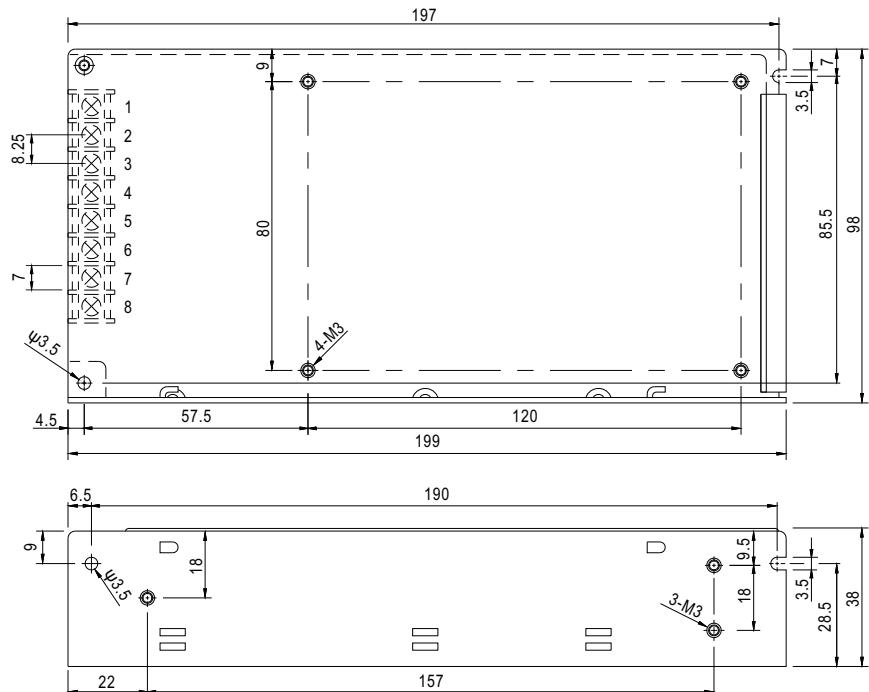


SPECIFICATION

MODEL	RT-125A			RT-125B			RT-125C			RT-125D										
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	12A	5.5A	1A	12A	5A	1A	10A	4.5A	1A	8A	3A	2A							
	CURRENT RANGE	Note.3	0 ~ 12A	0 ~ 6A	0 ~ 1A	0~ 12A	0 ~ 6A	0 ~ 1A	0 ~ 12A	0 ~ 6A	0 ~ 1A	0 ~ 12A	0 ~ 4A							
	RATED POWER	Note.6	131W			132W			132.5W			136W								
	RIPPLE & NOISE (max.)	Note.2	80mVp-p	120mVp-p	80mVp-p	80mVp-p	120mVp-p	120mVp-p	80mVp-p	150mVp-p	150mVp-p	80mVp-p	150mVp-p							
	VOLTAGE ADJ. 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%	+9,-5%	+6,-10%	±2.0%	+9,-5%	±6.0%	±2.0%	+8,-5%	±6.0%	±2.0%	±8.0%							
	LINE REGULATION	Note.4	±0.5%	±1.0%	±1.0%	±0.5%	±1.0%	±1.0%	±0.5%	±1.0%	±1.0%	±0.5%	±1.0%							
	LOAD REGULATION	Note.5	±1.0%	±3.0%	±6.0%	±1.0%	±3.0%	±6.0%	±1.0%	±4.0%	±6.0%	±1.0%	±5.0%							
INPUT	SETUP, RISE TIME	500ms, 20ms/230VAC			1200ms, 30ms/115VAC at full load															
	HOLD UP TIME (Typ.)	25ms/230VAC			30ms/115VAC at full load															
	VOLTAGE RANGE	88 ~ 132VAC / 176 ~ 264VAC selected by switch																		
	FREQUENCY RANGE	47 ~ 63Hz																		
	EFFICIENCY (Typ.)	77%		78%		79%		80%												
	AC CURRENT (Typ.)	3A/115VAC		2A/230VAC																
PROTECTION	INRUSH CURRENT (Typ.)	COLD START 50A/230VAC																		
	LEAKAGE CURRENT	<2mA / 240VAC																		
ENVIRONMENT	OVERLOAD	110 ~ 150% rated output power																		
	OVER VOLTAGE	Protection type : Hiccup mode, recovers automatically after fault condition is removed																		
SAFETY & EMC (Note 7)	WORKING TEMP.	CH1: 5.75 ~ 6.75V																		
	WORKING HUMIDITY	Protection type : Hiccup mode, recovers automatically after fault condition is removed																		
	STORAGE TEMP., HUMIDITY	-25 ~ +70°C (Refer to "Derating Curve")																		
	TEMP. COEFFICIENT	20 ~ 90% RH non-condensing																		
OTHERS	TEMP. COEFFICIENT	-40 ~ +85°C, 10 ~ 95% RH																		
	VIBRATION	±0.03%/°C (0 ~ 50°C)on +5V output																		
	MTBF	10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes																		
	DIMENSION	199*98*38mm (L*W*H)																		
NOTE	PACKING	0.7Kg; 20pcs/14Kg/0.85CUFT																		
	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. (In order to meet tolerance, it is recommended that CH1 load > 15% rated current for A, B,D type and CH1 load > 20% rated current for C type.)																			
	4. Line regulation is measured from low line to high line at rated load.																			
	5. Load regulation is measured from 20% to 100% rated load, and other output at 60% rated load.																			
	6. Each output can work within current range. But total output power can't exceed rated output power.																			
	7. 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)																			
	8. 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.																			
	9. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).																			
	※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx																			

■ Mechanical Specification

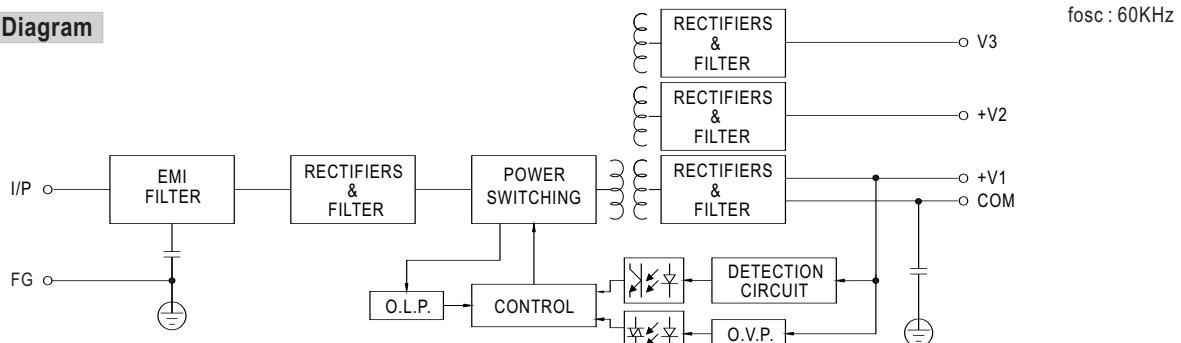
Case No. 902A Unit:mm



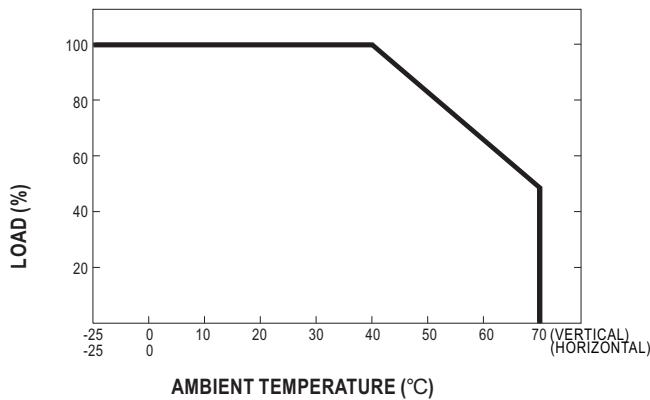
Terminal Pin No. Assignment

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

■ Block Diagram



■ Derating Curve



■ Static Characteristics

