

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

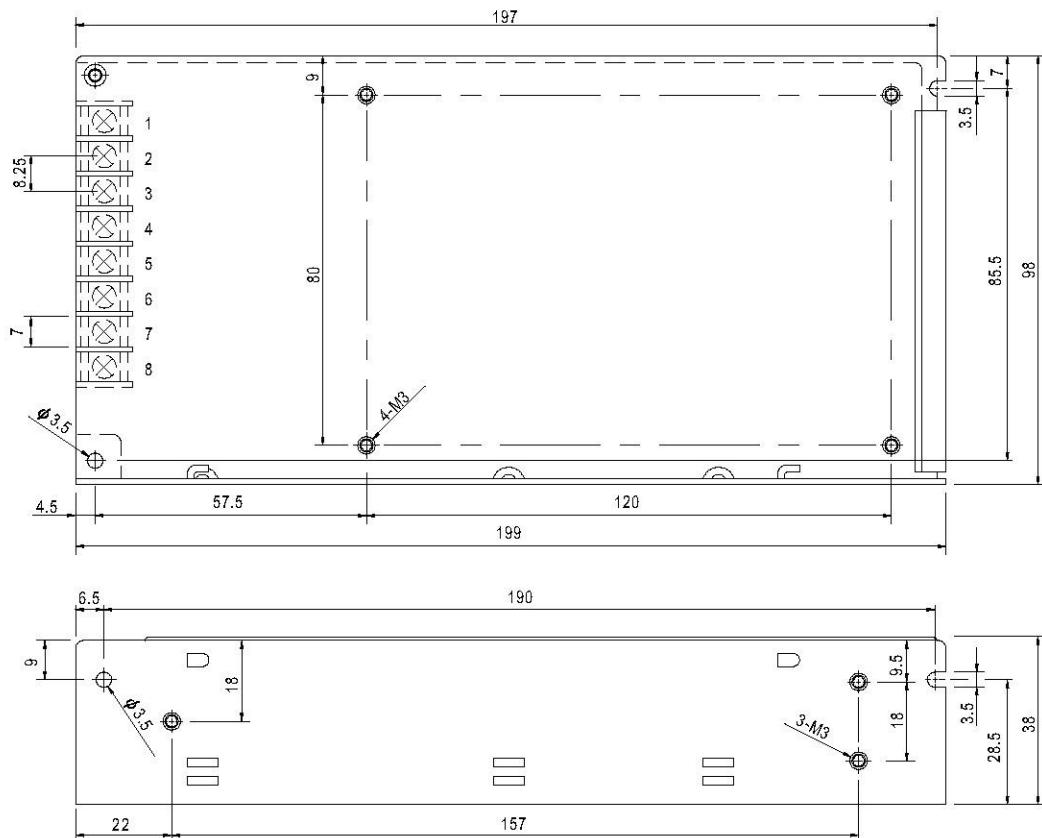


SPECIFICATION

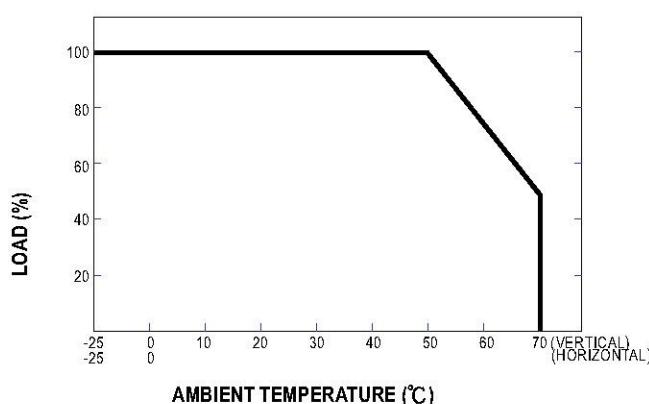
MODEL	413-651			413-683			413-702			413-639				
OUTPUT	OUTPUT NUMBER	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3	
	DC VOLTAGE	5V	12V	-5V	5V	12V	-12V	5V	15V	-15V	5V	24V	12V	
	RATED CURRENT	12A	5.5A	1A	12A	5A	1A	10A	4.5A	1A	8A	3A	2A	
	CURRENT RANGE	Note.6	2 ~ 15A	0.5 ~ 6A	0.1 ~ 1A	2 ~ 15A	0.5 ~ 6A	0.1 ~ 1A	2 ~ 15A	0.5 ~ 6A	0.1 ~ 1A	2 ~ 15A	0.4 ~ 4A	0.1 ~ 2A
	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	120mVp-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%	+8,-3%	+6,-10%	±2.0%	+8,-3%	±6.0%	±2.0%	+8,-3%	±6.0%	±2.0%	±5.0%	±6.0%
	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%	±1.0%
	LOAD REGULATION	Note.5	±1.0%	±3.0%	±6.0%	±1.0%	±3.0%	±6.0%	±1.0%	±3.0%	±6.0%	±1.0%	±3.0%	±6.0%
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			248 ~ 373VDC(Withstand 300VAC surge for 5sec. Without damage)								
	FREQUENCY RANGE		47 ~ 63Hz											
	EFFICIENCY (Typ.)		79%		80%		81%		82%					
	AC CURRENT (Typ.)		3A/115VAC		2A/230VAC									
PROTECTION	INRUSH CURRENT (Typ.)		COLD START 40A/230VAC											
	LEAKAGE CURRENT		<2mA / 240VAC											
	OVERLOAD		110 ~ 150% rated output power											
			Protection type : Hiccup mode, recovers automatically after fault condition is removed											
ENVIRONMENT	OVER VOLTAGE		CH1: 5.75 ~ 6.75V											
			Protection type : Hiccup mode, recovers automatically after fault condition is removed											
	WORKING TEMP.		-25 ~ +70°C (Refer to output load derating curve)											
	WORKING HUMIDITY		20 ~ 90% RH non-condensing											
	STORAGE TEMP., HUMIDITY		-40 ~ +85°C, 10 ~ 95% RH											
SAFETY & EMC (Note 7)	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											
	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											
OTHERS	EMI CONDUCTION & RADIATION		Compliance to EN55022 (CISPR22) Class B											
	HARMONIC CURRENT		Compliance to EN61000-3-2,3											
	EMS IMMUNITY		Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN61000-6-2 (EN50082-2) heavy industry level, criteria A											
NOTE	MTBF		209.3Khrs min. MIL-HDBK-217F (25°C)											
	DIMENSION		199*98*38mm (L*W*H)											
	PACKING		0.7Kg, 20pcs/14Kg/0.8CUFT											
NOTE	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 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. The final equipment must be re-confirmed that it still meets EMC directives.												
	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.												

■ Mechanical Specification

Case No. 902A Unit:mm


Terminal Pin No. Assignment

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

■ Derating Curve

■ Static Characteristics
