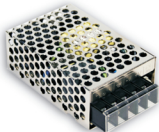




25W Single Output Switching Power Supply

RS-25 series



- Features :
 - Universal AC input / Full range
 - Protections: Short circuit/Over load/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



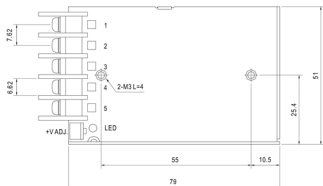
SPECIFICATION

MODEL	RS-25-3.3	RS-25-5	RS-25-12	RS-25-15	RS-25-24	RS-25-48	
OUTPUT	DC VOLTAGE	3.3V	5V	12V	15V	24V	48V
	RATED CURRENT	6A	5A	2.1A	1.7A	1.1A	0.57A
	CURRENT RANGE	0 – 6A	0 – 5A	0 – 2.1A	0 – 1.7A	0 – 1.1A	0 – 0.57A
	RATED POWER	19.8W	25W	25.2W	25.5W	26.4W	27.36W
	RIPPLE & NOISE (max.) Note.2	80mVp-p	80mVp-p	120mVp-p	120mVp-p	120mVp-p	200mVp-p
	VOLTAGE ADJ. RANGE	2.85V – 3.6V	4.75 – 5.5V	10.8 – 13.2V	13.5 – 16.5V	22 – 27.6V	42 – 54V
	VOLTAGE TOLERANCE Note.3	±3.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±2.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%
	SETUP, RISE TIME	1200ms, 20ms/230VAC	2200ms, 30ms/115VAC at full load				
HOLD TIME (Typ.)	80ms/230VAC	14ms/115VAC at full load					
INPUT	VOLTAGE RANGE	88 – 264VAC	125 – 373VDC (Withstand 300VAC surge for 5sec. Without damage)				
	FREQUENCY RANGE	47 – 63Hz					
	EFFICIENCY(Typ.)	72%	77%	79%	82%	84%	85%
	AC CURRENT (Typ.)	0.7A/115VAC	0.4A/230VAC				
	INRUSH CURRENT (Typ.)	COLD START 30A/230VAC					
LEAKAGE CURRENT	<2mA / 240VAC						
PROTECTION	OVER LOAD	110 – 180% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed					
	OVER VOLTAGE	3.8 – 4.45V	5.75 – 6.75V	13.8 – 16.2V	17.25 – 20.25V	27.6 – 32.4V	55.2 – 64.8V
ENVIRONMENT	WORKING TEMP.	-20 – +70°C (Refer to output load derating curve)					
	WORKING HUMIDITY	20 – 90% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-40 – +85°C, 10 – 95% RH					
	TEMP. COEFFICIENT	±0.03%/°C (0–50°C)					
	VIBRATION	10–500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes					
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL80950-1, 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					
	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; ENV52024 light industry level, criteria A						
OTHERS	MTBF	309.7Khrs min. MIL-HDBK-217F (25°C)					
	PACKING	79"51*28mm (L*W*H) 0.2Kg; 60pcs/13Kg/0.57CUFT					
NOTE	<ol style="list-style-type: none"> 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. 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. 						



■ Mechanical Specification

Case No.931A Unit:mm



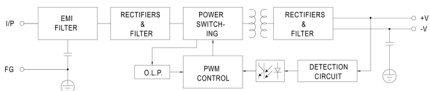
Terminal Pin. No Assignment

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DC OUTPUT -V
2	AC/N	5	DC OUTPUT +V
3	FG		

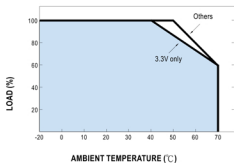


■ Block Diagram

fosc : 60KHz



■ Output Derating



■ Static Characteristics (24V)

