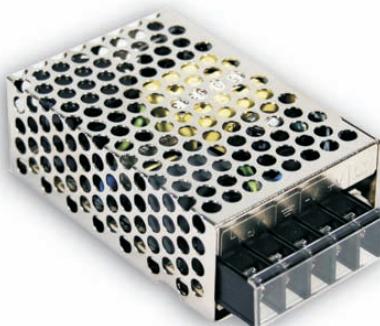


Datasheet

25W Single Output Switching Power Supply

RS-25 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°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



SAFETY
DEPART
TESTED
TYPE
APPROVED

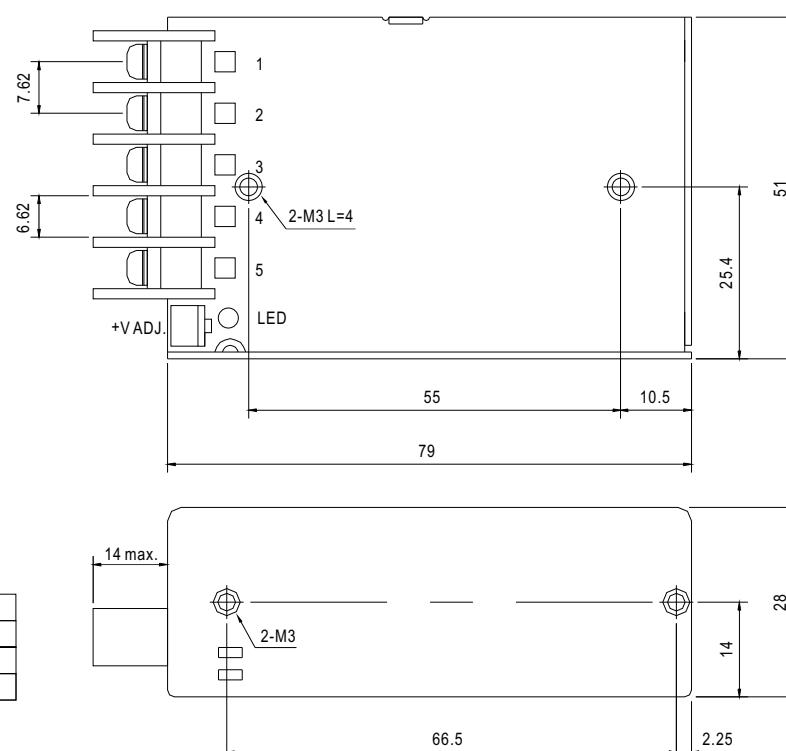


SPECIFICATION

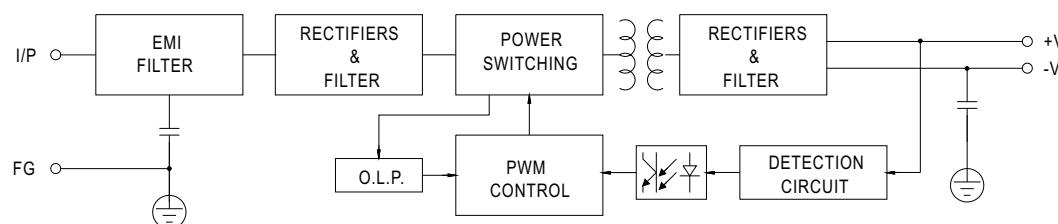
MODEL	678-3742	644-6935	621-0578	255-493	621-0584	644-6963
OUTPUT	DC VOLTAGE	3.3V	5V	12V	15V	24V
	RATED CURRENT	6A	5A	2.1A	1.7A	1.1A
	CURRENT RANGE	0 ~ 6A	0 ~ 5A	0 ~ 2.1A	0 ~ 1.7A	0 ~ 1.1A
	RATED POWER	19.8W	25W	25.2W	25.5W	26.4W
	RIPPLE & NOISE (max.) Note.2	80mVp-p	80mVp-p	120mVp-p	120mVp-p	200mVp-p
	VOLTAGE ADJ. RANGE	2.85 ~ 3.6V	4.75 ~ 5.5V	10.8 ~ 13.2V	13.5 ~ 16.5V	22 ~ 27.6V
	VOLTAGE TOLERANCE Note.3	3.0%	2.0%	1.0%	1.0%	1.0%
	LINE REGULATION Note.4	0.5%	0.5%	0.5%	0.5%	0.5%
	LOAD REGULATION Note.5	2.0%	1.0%	0.5%	0.5%	0.5%
	SETUP, RISE TIME	1200ms, 23ms/230VAC	2200ms, 30ms/115VAC at full load			
INPUT	HOLD UP TIME (Typ.)	80ms/230VAC	14ms/115VAC at full load			
	VOLTAGE RANGE	88 ~ 264VAC	125 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage)			
	FREQUENCY RANGE	47 ~ 63Hz				
	EFFICIENCY(Typ.)	72%	77%	79%	82%	84%
	AC CURRENT (Typ.)	0.7A/115VAC	0.4A/230VAC			
	INRUSH CURRENT (Typ.)	COLD START 30A/230VAC				
PROTECTION	LEAKAGE CURRENT	<2mA / 240VAC				
	OVERLOAD	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
ENVIRONMENT		Protection type : Shut off o/p voltage, clamping by zener diode				
	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)				
SAFETY & EMC (Note 6)	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				
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B				
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3				
OTHERS	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, light industry level, criteria A				
	MTBF	309.7Khrs min. MIL-HDBK-217F (25°C)				
	DIMENSION	79*51*28mm (L*W*H)				
NOTE	PACKING	0.2Kg; 60pcs/13Kg/0.46CUFT				
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.						

■ Mechanical Specification

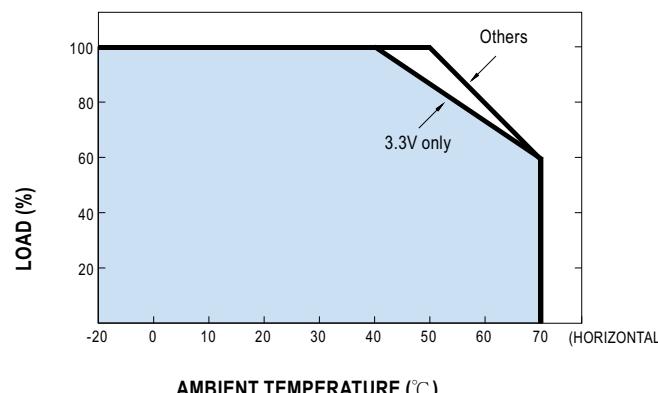
Case No.931A Unit:mm


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 \pm		

■ Block Diagram


fosc : 60KHz

■ Derating Curve

■ Static Characteristics (24V)
