

SPS-G025-xx Series

25W, Single Output

Green mode function



79 x 50.8 x 28.5 mm

3.11 x 2.0 x 1.12 inch



Features:

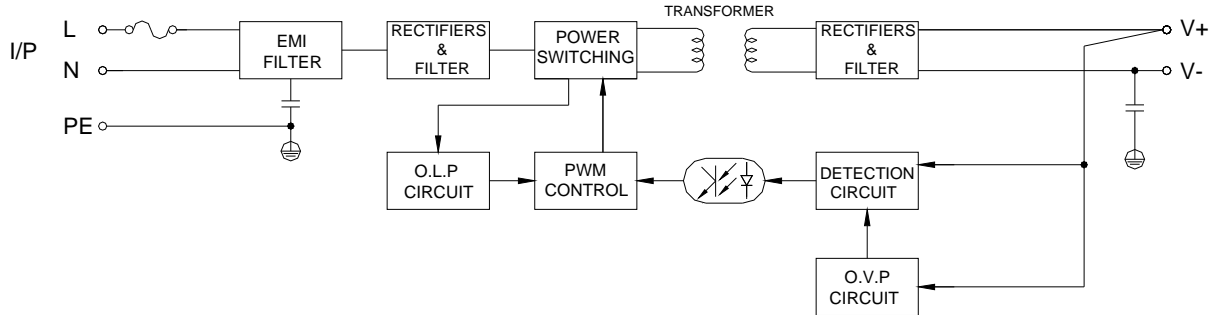
- * Green mode designing, no load < 0.3W
- * High efficiency and high reliability
- * Built in EMI filter, low ripple noise
- * Over load, over voltage, short circuit protection
- * Output voltage $\pm 10\%$ adjustment
- * 100% full load burn-in test
- * $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$ Operating temperature
- * UL, cUL, TUV, CB, CE approved

Specification:

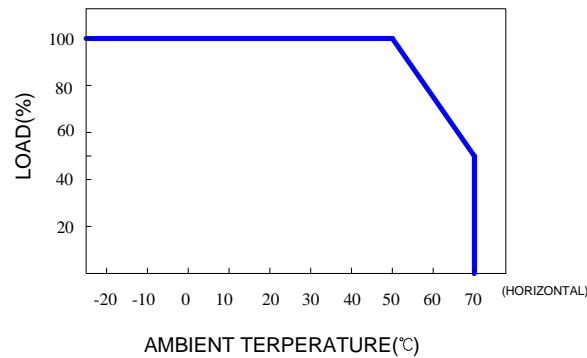
INPUT	Voltage	88V ~ 264VAC universal full range or 125V ~ 375VDC.							
	Frequency	47 ----- 63 Hz							
	Current	<0.65A@100V AC input, full load condition							
	Inrush Current	<30A@115V , <50A@230V AC input, Cold start at 25°C ambient							
	Leakage Current	<1.5mA@264V AC input							
OUTPUT	MODEL No.	SPS-G025-3.3	SPS-G025-05	SPS-G025-7.5	SPS-G025-12	SPS-G025-15	SPS-G025-24	SPS-G025-30	SPS-G025-48
	Voltage	3.3V	5V	7.5V	12V	15V	24V	30V	48V
	Min. Load	0A	0A	0A	0A	0A	0A	0A	0A
	Max. Load	6A	5A	3.4A	2.1A	1.7A	1.1A	0.9A	0.57A
	Output Tolerance ②	$\pm 3\%$	$\pm 2\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$
	Ripple Noise (MAX.) ③	50mV	70mV	70mV	120mV	150mV	150mV	200mV	200mV
	Efficiency (TYP.)	72%	77%	78%	81%	82%	84%	85%	85%
Output MAX.	20W	25W	25W	25W	25W	27W	27W	27W	
PROTECTION	Over Voltage	3.8~4.6V	5.8~7.0V	8.6~10.5V	13.8~16.8V	17.3~21.0V	27.6~33.6V	34.5~42.0V	55.2~67.2V
		Over voltage latch							
	Over Load & Short Circuit	When power supply over 105%~ 180% rate load or short circuit acted, power supply will go into hiccup mode and recover automatically after the fault is removed.							
ELEC. CHAR.	Rise time	<30mS							
	Hold up time	>60mS@230V, full load condition							
	Setup time	<1 Sec@100 ~ 240V AC							
	Green mode function	Power consumption at no load < 0.3W at 240VAC input							
ENVIRONMENT	Temperature ④	Operating: $-20 \sim +70^{\circ}\text{C}$; De-rating: $50 \sim 70^{\circ}\text{C}$: $2.5\%/^{\circ}\text{C}$; Storage: $-40 \sim +85^{\circ}\text{C}$							
	Humidity	Operating: 20% ~ 85%; Storage: 10% ~ 95% (non condensing)							
SAFETY & EMC	Safety standard	UL 60950-1, CSA C22.2 No.60950-1, TUV EN 60950-1, IEC 60950-1, EMKO-TSE (74-SEC) 207/94 approved.							
	EMI	EN 55022 CLASS B , FCC CFR 47 PART 15 CLASS B, CNS 13438 CALSS B. Compliance to EN61000-3-2 CLASS A, EN61000-3-3							
	EMS	EN 55024 : EN 61000-4-2,3,4,5,6,8,11							
OTHERS	Withstand voltage	I/P-O/P:3KVAC, I/P-PE:1.5KVAC, O/P-PE:0.5KVAC, 1minute							
	Cooling	Natural cooling.							
	M.T.B.F.	450K hours							
	Terminal pitch	5P / 7.62mm with plastic cover							
	Packing	N.W.: 0.18 Kg / 1pc; 80pcs/ 1.11Cu ft ³ / 1 CTN							
NOTE	<p>① All measurements which not mentioned are based on 230VAC input, output Max at ambient 25°C / 70%RH</p> <p>② Output tolerance included set up voltage, line regulation and load regulation.</p> <p>③ Ripple & noise are measured at 20MHz of bandwidth by terminated with a 0.1uF & a 47uF parallel capacitor when 100~240VAC input at 25°C</p> <p>④ The operating temperature shall follow the de-rating curve in spec</p> <p>⑤ The power supply is considered a component of end-equipment. The end-equipment must be re-confirmed whether comply with EMC directives.</p> <p>⑥ A sound may occur from power supply at pulse loading.</p>								

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Block Diagram :

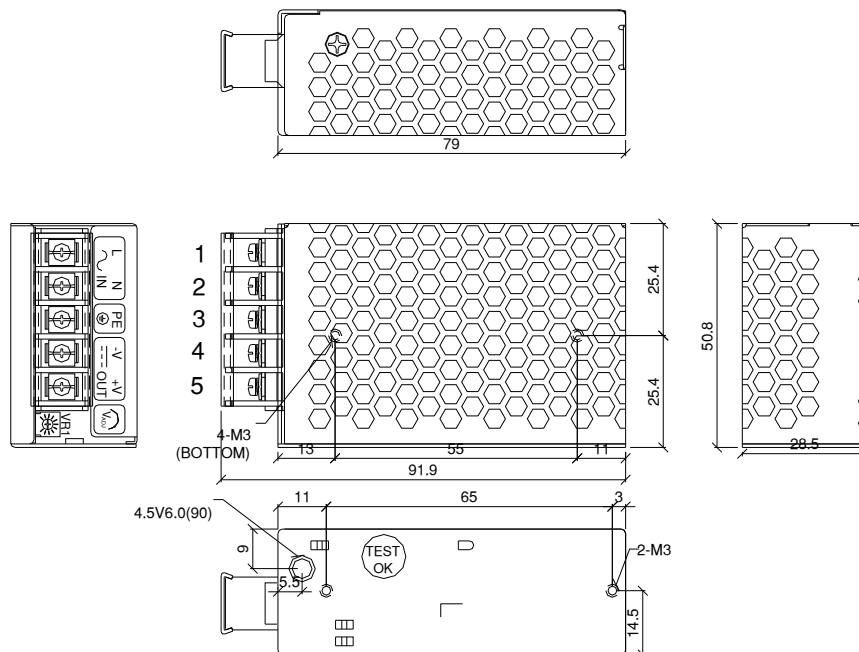


De-rating Curve :



Dimension:

(Unit: mm)



Terminal Pin. No Assignment: 5P/7.62mm W/PC cover

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