



SUNPOWER TECHNOLOGY CORP.  
 33485 Western Ave., Union City, CA 94587  
 TEL: 510-489-5088 FAX: 510-489-8966  
 http://www.sunpower-usa.com  
 E-mail: support@sunpower-usa.com

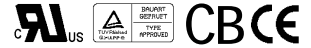
# SPS-G025 Series

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
- \* 3 years warranty

## Specification:

INPUT	<b>Voltage</b>	88V ~ 264VAC or 125V ~ 375VDC Universal full range								
	<b>Frequency</b>	47 ----- 63 Hz								
	<b>Current</b>	<0.65A@100V AC input, full load condition								
	<b>Inrush Current</b>	<30A@115V , <50A@230V AC input, Cold start at 25°C ambient								
	<b>Leakage Current</b>	<1.5mA@264V AC input								
OUTPUT	<b>MODEL No.</b>	<b>SPS-G025-3.3</b>	<b>SPS-G025-05</b>	<b>SPS-G025-7.5</b>	<b>SPS-G025-12</b>	<b>SPS-G025-15</b>	<b>SPS-G025-24</b>	<b>SPS-G025-30</b>	<b>SPS-G025-48</b>	
	<b>Voltage</b>	3.3V	5V	7.5V	12V	15V	24V	30V	48V	
	<b>Min. Load</b>	0A	0A	0A	0A	0A	0A	0A	0A	
	<b>Max. Load</b>	6A	5A	3.4A	2.1A	1.7A	1.1A	0.9A	0.57A	
	<b>Regulation</b>	$\pm 3\%$	$\pm 2\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	
	<b>Ripple Noise (MAX.)</b> ②	50mV	70mV	70mV	120mV	150mV	150mV	200mV	200mV	
	<b>Efficiency (TYP.)</b> ①	72%	77%	78%	81%	82%	84%	85%	85%	
<b>Output (MAX)</b>	20W	25W	25W	25W	25W	27W	27W	27W		
PROTECTION	<b>Over Voltage</b>	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	
	<b>Over Load</b>	Over 105%~ 180% of rating, recovers automatically after fault condition has been removed.								
	<b>Short Circuit</b>	Shutdown, recovers automatically after fault condition has been removed.								
ELEC. CHAR.	<b>Rise time</b>	<30mS								
	<b>Hold up time</b>	>60mS@230V, full load condition								
	<b>Setup time</b>	<1.5S@115V , <0.6S@230V								
	<b>Green mode function</b>	Power consumption at No load < 0.3W								
ENVIRONMENT	<b>Temperature</b>	Operating: $-20 \sim +70^{\circ}\text{C}$ ; De-rating: $50 \sim 70^{\circ}\text{C}$ : $2.5\%/^{\circ}\text{C}$ ; Storage: $-40 \sim +85^{\circ}\text{C}$								
	<b>Humidity</b>	Operating: 20% ~ 85%; Storage: 10% ~ 95% (non condensing)								
SAFETY & EMC	<b>Safety standard</b>	UL 60950-1, CSA C22.2 No.60950-1, TUV EN 60950-1, IEC 60950-1, EMKO-TSE (74-SEC) 207/94 approved								
	<b>EMI</b>	EN 55022 CLASS B , FCC CFR 47 PART 15 CLASS B, CNS 13438 CALSS B.								
	<b>EMS</b>	EN 55024 : EN 61000-4-2,3,4,5,6,8,11								
OTHERS	<b>Withstand voltage</b>	I/P-O/P:3KVAC, I/P-PE:1.5KVAC, O/P-PE:0.5KVDC, 1minute								
	<b>Cooling</b>	Natural Cooling.								
	<b>M.T.B.F.</b>	450K hours								
	<b>Terminal pitch</b>	5P / 7.62mm with plastic cover								
	<b>Packing</b>	N.W.: 0.18 Kg / 1pc; 80pcs/ 1.11Cu ft <sup>3</sup> / 1 CTN								

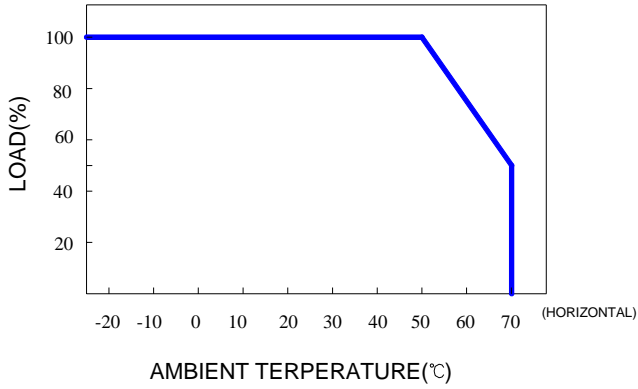
NOTE: ① Test condition at 230V AC input.  
 ② Ripple & noise test condition at 0~50°C



SUNPOWER TECHNOLOGY CORP.  
 33485 Western Ave., Union City, CA 94587  
 TEL: 510-489-5088 FAX: 510-489-8966  
 http://www.sunpower-usa.com  
 E-mail: support@sunpower-usa.com

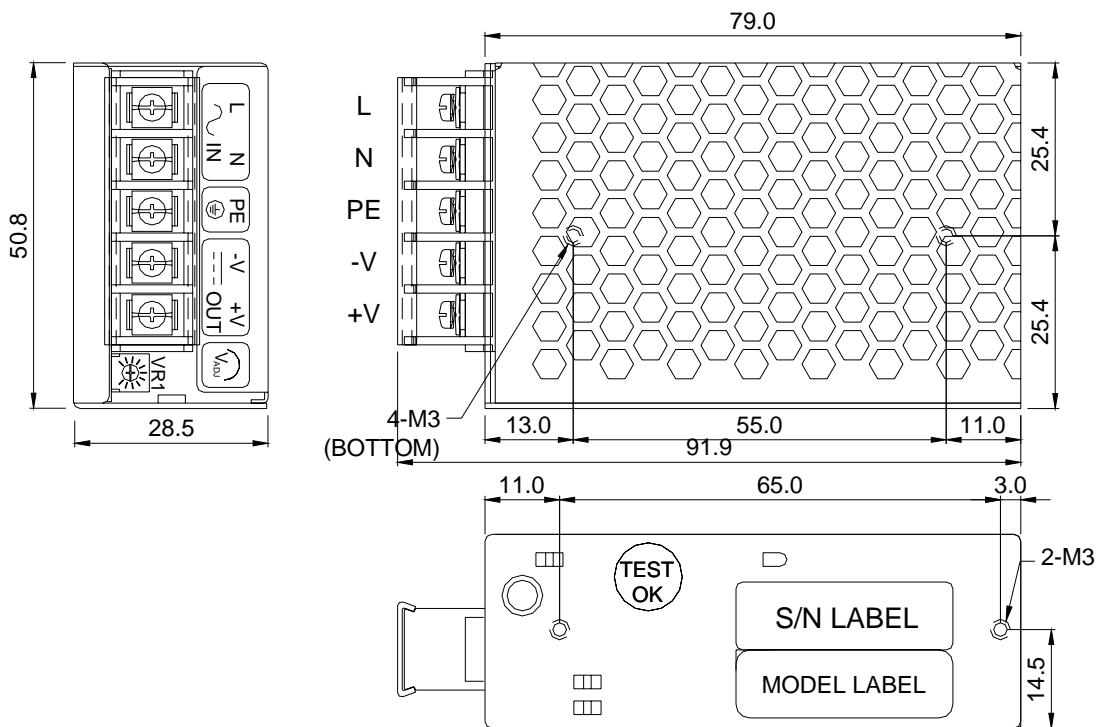
# SPS-G025 Series

## Derating Curve :



## Dimension:

(Unit: mm)



NOTES:  
 TERMINAL BLOCK: 5P, PITCH 7.62mm WITH PC COVER.