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# SPS-G015-xx Series

15W, Single Output

Green mode function



62 x 50.8 x 28 mm  
 2.44 x 2.0 x 1.10 inch  
 CB CE

## Features:

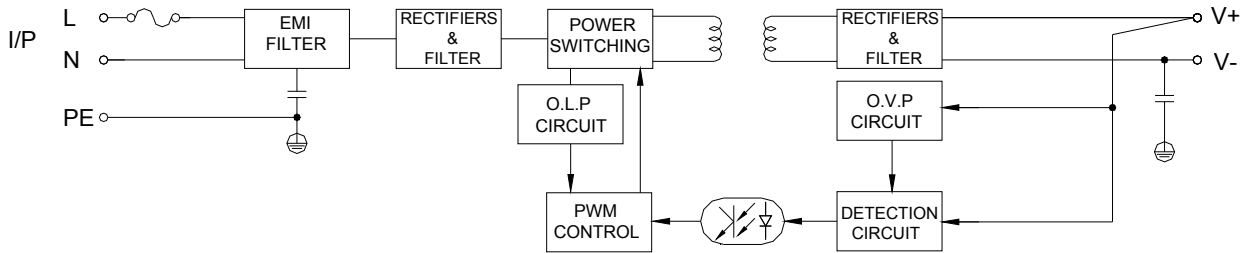
- \* Green mode design, no load < 0.3W
- \* All using 105°C long life electrolytic capacitors
- \* Over voltage protection : Voltage limited mode
- \* Over load & short circuit protection : Hiccup mode
- \* Small size, high efficiency
- \* Output voltage  $\pm 10\%$  adjustment
- \* 100% full load burn-in test
- \* -20°C~70°C Operating temperature
- \* UL, cUL, TUV, CB, CE approved
- \* 3 years warranty

## Specification:

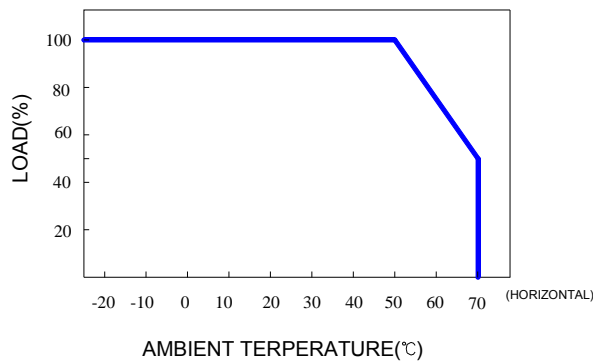
INPUT	<b>Voltage</b>	85V ~ 264VAC universal full range or 120V ~ 375VDC.						
	<b>Frequency</b>	47 ----- 63 Hz						
	<b>Current</b>	<0.5A@100V AC input, full load condition						
	<b>Inrush Current</b>	<30A@115V , <50A@230V AC input, Cold start at 25°C ambient						
	<b>Leakage Current</b>	<0.5mA@264V AC input						
OUTPUT	<b>MODEL No.</b>	<b>SPS-G015-3.3</b>	<b>SPS-G015-05</b>	<b>SPS-G015-12</b>	<b>SPS-G015-15</b>	<b>SPS-G015-24</b>	<b>SPS-G015-48</b>	
	<b>Voltage</b>	3.3V	5V	12V	15V	24V	48V	
	<b>Min Load</b>	0A	0A	0A	0A	0A	0A	
	<b>Max Load</b>	3A	3A	1.3A	1.0A	0.63A	0.32A	
	<b>Output Tolerance</b> ②	$\pm 3\%$	$\pm 2\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	
	<b>Ripple Noise MAX.</b> ③	80mV	80mV	120mV	150mV	200mV	200mV	
	<b>Efficiency (TYP.)</b>	74%	79%	84%	84%	85%	87%	
	<b>Output MAX.</b>	10W	15W	15.6W	15W	15.1W	15.4W	
PROTECTION	<b>Over Voltage</b>	3.8~4.6V	5.8~7.0V	13.8~16.8V	17.3~21.0V	27.6~33.6V	55.2~67.2V	
		Limiting voltage latch						
	<b>Over Load &amp; Short Circuit</b>	When power supply over 105% max load or short circuit acted, power supply will go into hiccup mode and recover automatically after the fault is removed.						
ELEC. CHAR.	<b>Rise time</b>	<50mS						
	<b>Hold up time</b>	>60mS@230V, full load condition						
	<b>Setup time</b>	<1 Sec@100 ~ 240V AC						
	<b>Green mode function</b>	Power consumption at no load < 0.3W at 240VAC input						
ENVIRONMENT	<b>Temperature</b> ④	Operating: -20 ~ +70°C ; De-rating: 50 ~ 70°C: 2.5%/°C ; Storage: -40 ~ +85°C						
	<b>Humidity</b>	Operating: 20% ~ 90% RH (non condensing) ; Storage: 10% ~ 95% RH (non condensing)						
SAFETY	<b>Withstand voltage</b>	I/P-O/P:3KVAC, I/P-PE:1.5KVAC, O/P-PE:0.5KVAC, 1minute						
	<b>Isolation resistance</b>	I/P-O/P, I/P-PE, O/P-PE > 100MΩ/500VDC at 25°C/ 70% RH						
	<b>Safety standard</b>	UL 60950-1 2 <sup>nd</sup> , CSA C22.2 No. 60950-1-07 2 <sup>nd</sup> , TUV EN 60950-1:2006+A11, IEC 60950-1:2005, approved.						
EMC	<b>EMI</b>	EN 55022 CLASS B, FCC CFR 47 PART 15 CLASS B, CNS 13438 CLASS B.						
		Compliance to EN61000-3-2 CLASS A, EN61000-3-3						
	<b>EMS</b>	EN 55024 : EN 61000-4-2,3,4,5,6,8,11						
OTHERS	<b>Cooling</b>	Natural cooling.						
	<b>M.T.B.F.</b>	634K hours						
	<b>Terminal pitch</b>	5P / 7.62mm with plastic cover						
	<b>Packing</b>	N.W.: 0.13Kg / 1pc; 100pcs/ 0.85 CUFT / 1 CTN						
NOTE	① All measurements which not mentioned are based on 230VAC input, <b>output Max</b> at ambient 25°C / 70%RH ② Output tolerance included set up voltage, line regulation and load regulation. ③ Ripple & noise are measured at 100~254VAC input with 10~50°C condition and 20MHz of bandwidth by using a 10" ~ 15" twisted pair-wire terminated with a 0.1uF & a 47uF parallel capacitor. ④ The operating temperature shall follow the de-rating curve in spec ⑤ The power supply is considered a component of end-equipment. The end-equipment must be re-confirmed whether comply with EMC directives.							

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## Block Diagram : US1

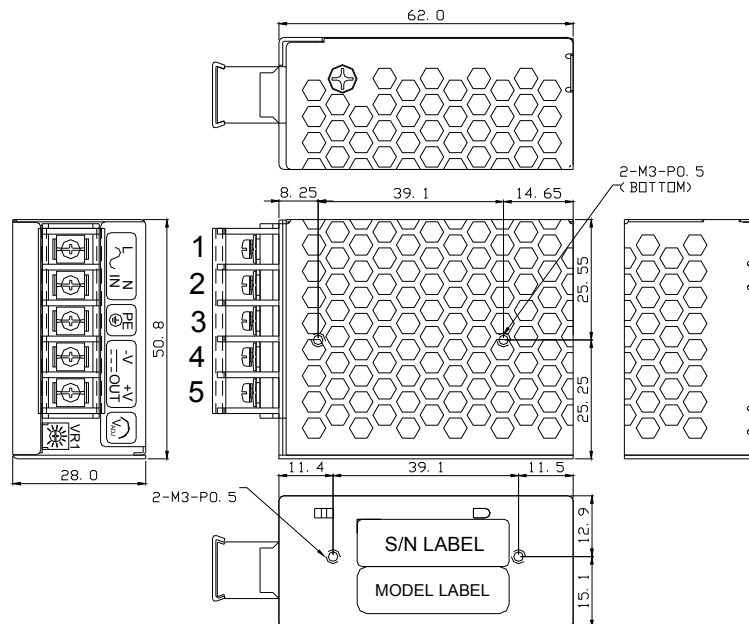


## De-rating Curve :



## Dimension:

(Unit: mm)



Terminal Pin. No Assignment: 5P/7.62mm w/plastic cover

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