



SUNPOWER TECHNOLOGY CORP.  
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# SPS-015-xx Series

15W, Single Output  
 Green mode function



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

## Features:

- \* Green mode design, no load < 0.3W
- \* All using 105°C long life electrolytic capacitors
- \* Over voltage protection
- \* Over load & short circuit protection
- \* 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:

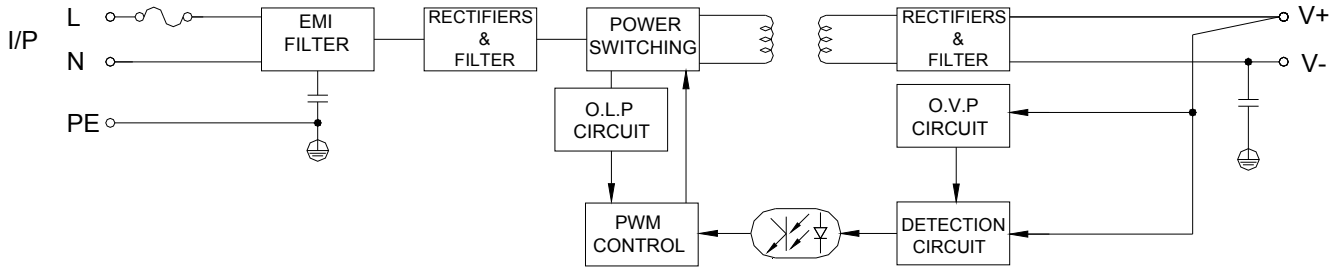
INPUT	Voltage	85V ~ 264VAC universal full range or 120V ~ 375VDC.					
	Frequency	47 ----- 63 Hz					
	Current	<0.5A@100V AC input, full load condition					
	Inrush Current	<30A@115V , <50A@230V AC input, Cold start at 25°C ambient					
	Leakage Current	<0.5mA@264V AC input					
OUTPUT	MODEL No.	SPS-015-3.3	SPS-015-05	SPS-015-12	SPS-015-15	SPS-015-24	SPS-015-48
	Voltage	3.3V	5V	12V	15V	24V	48V
	Min Load	0A	0A	0A	0A	0A	0A
	Max Load	3A	3A	1.3A	1.0A	0.63A	0.32A
	Output Tolerance ②	$\pm 3\%$	$\pm 2\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$
	Ripple Noise MAX. ③	80mV	80mV	120mV	150mV	200mV	250mV
	Efficiency (TYP.)	74%	79%	83%	84%	85%	86%
PROTECTION	Output MAX.	10W	15W	15.6W	15W	15.1W	15.4W
	Over Voltage	3.8~4.6V	5.8~7.0V	13.8~16.8V	17.3~21.0V	27.6~33.6V	55.2~67.2V
ELEC. CHAR.	Over Load & Short Circuit	Limiting voltage latch 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.					
	Rise time	<50mS					
ENVIRONMENT	Hold up time	>60mS@230V, full load condition					
	Setup time	<1 Sec@100 ~ 240V AC					
SAFETY	Green mode function	Power consumption at no load < 0.3W at 240VAC input					
	Temperature ④	Operating: -20 ~ +70°C ; De-rating: 50 ~ 70°C: 2.5%/°C ; Storage: -40 ~ +85°C					
EMC	Humidity	Operating: 20% ~ 90% RH (non condensing) ; Storage: 10% ~ 95% RH (non condensing)					
	Withstand voltage	I/P-O/P:3KVAC, I/P-PE:1.5KVAC, O/P-PE:0.5KVAC, 1minute					
	Isolation resistance	I/P-O/P, I/P-PE, O/P-PE > 100MΩ/500VDC at 25°C/ 70% RH					
OTHERS	Safety standard	UL 60950-1 1 <sup>st</sup> , CSA C22.2 No. 60950-1- 03 1 <sup>st</sup> , TUV EN 60950-1:2001+A11, IEC 60950-1, approved					
	EMI	EN 55022 CLASS B · FCC CFR 47 PART 15 CLASS B · CNS 13438 CLASS B.					
NOTE	EMS	Compliance to EN61000-3-2 CLASS A, EN61000-3-3, EN 55024 : EN 61000-4-2,3,4,5,6,8,11					
	Cooling	Natural cooling.					
	M.T.B.F.	634K hours					
	Terminal pitch	5P / 7.62mm with plastic cover					
NOTE	Packing	N.W.: 0.13Kg / 1pc; 100pcs/ 0.85 CUFT / 1 CTN					
	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.					
NOTE	③	Ripple & noise are measured at 100~254VAC input with 0~50°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.					



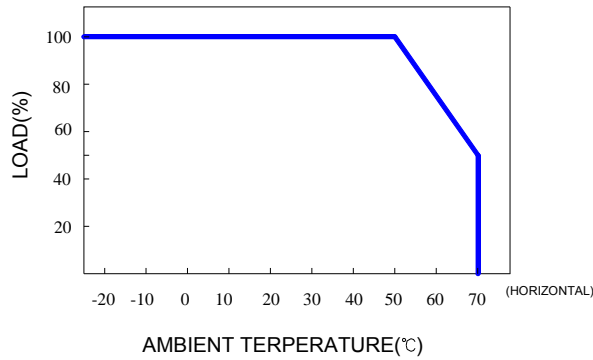
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## Block Diagram : US1

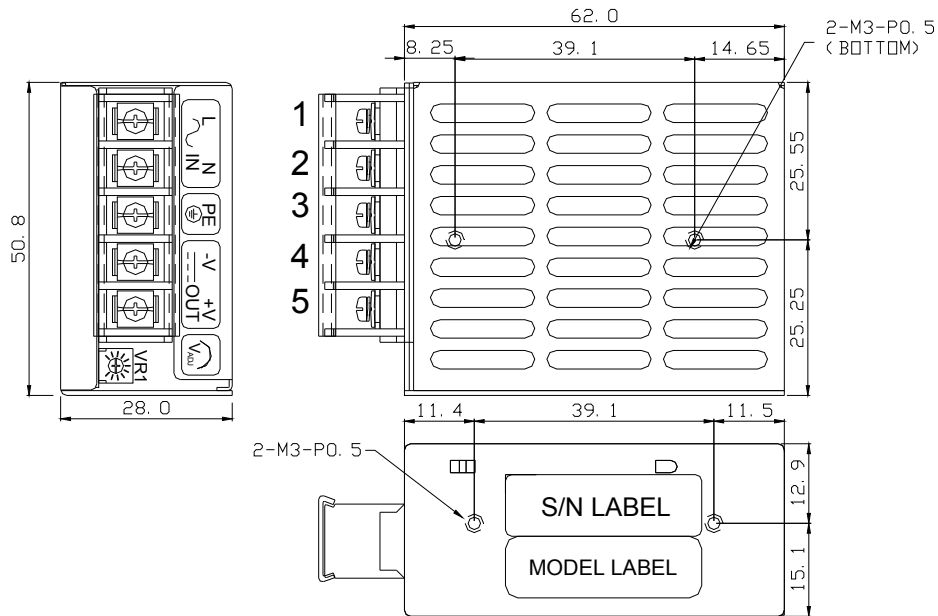


## De-rating Curve :



## 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		