



SUNPOWER TECHNOLOGY CORP.  
 16F-1, No.150, Jian 1st Rd., Zhonghe Dist., New Taipei City 235, Taiwan (R.O.C.).  
 TEL: 886-2-8226-3100 FAX: 886-2-8226-3111  
 http://www.sunpower.com.tw  
 E-mail: sunpower@sunpower.com.tw

# SPS-S150-xx Series

150W, Single Output



198 x 95 x 38 mm  
 7.80 x 3.74 x 1.5 inch

## Features:

- \* Power ON with LED indicator
- \* Built-in EMI filter, low ripple noise
- \* Over voltage protection
- \* Over load & short circuit protection
- \* Output voltage  $\pm 10\%$  adjustment
- \* Built-in output current limit circuit
- \* 100% full load burn-in test
- \* UL, cUL, TUV, CB, CE standard
- \* 2 years warranty

## Specification:

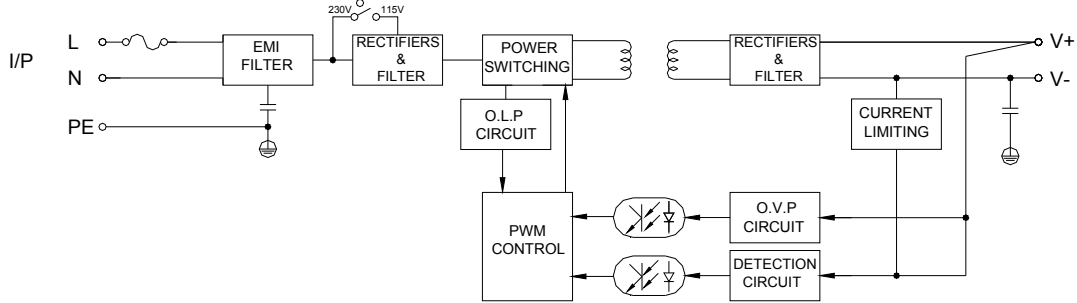
INPUT	Voltage ②	AC 88V ~ 132V or 176V ~ 264V selected by SW · DC 250V ~ 375V.						
	Frequency	47 ----- 63 Hz						
	Current	<3A@115V , <2A@230VAC input, full load condition						
	Inrush Current	<40A@115V , <80A@230V AC input, Cold start at 25°C ambient						
	Leakage Current	<1.5mA@264V AC input						
OUTPUT	MODEL No.	SPS-S150-05	SPS-S150-12	SPS-S150-15	SPS-S150-24	SPS-S150-30	SPS-S150-36	SPS-S150-48
	Voltage	5V	12V	15V	24V	30V	36V	48V
	Min Load	0A	0A	0A	0A	0A	0A	0A
	Max Load	26A	12.5A	10A	6.3A	5A	4.2A	3.2A
	Output Tolerance ③	$\pm 2\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$
	Ripple Noise MAX. ④	70mV	120mV	150mV	200mV	200mV	240mV	250mV
	Efficiency (TYP.)	78%	83%	84%	85%	85%	86%	87%
PROTECTION	Output MAX.	130W	150W	150W	151W	150W	151W	151W
	Over Voltage	5.8~7.0V	13.8~16.8V	17.3~21.0V	27.6~33.6V	34.5~42V	41.4~50.4V	55.2~67.2V
ELEC. CHAR.	Over Load & Short Circuit	Hiccup and recovers automatically after the fault is removed.						
	Rise time	<50mS						
	Hold up time	>16.7mS@115V , >20mS@230V						
ENVIRONMENT	Setup time	<1.5Sec @115V , <1Sec @230V						
	Temperature ⑤	Operating: -10 ~ 70°C ; De-rating: 45 ~ 70°C : 2.5%/°C ; Storage: -20 ~ 85°C						
SAFETY	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						
EMC	Safety standard	UL 60950-1 2 <sup>nd</sup> , CSA C22.2 No. 60950-1- 07 1 <sup>st</sup> , TUV EN 60950-1:2006, IEC 60950-1:2005, standard.						
	EMI	EN 55022 CLASS B · FCC CFR 47 PART 15 CLASS B · CNS 13438 CLASS B.						
OTHERS	EMS	Compliance to EN61000-3-2 CLASS A, EN61000-3-3						
	Cooling	EN 55024 : EN 61000-4-2,3,4,5,6,8,11						
	M.T.B.F.	Natural Cooling.						
	Dimension	256K hours						
NOTE	Packing	198 x 95 x 38 mm (L*W*H)						
		N.W.: 0.75Kg / 1pc; 24pcs/ 1.22 CUFT / 1 CTN						
		① All measurements which not mentioned are based on 230VAC input, output Max at ambient 25°C / 70%RH						
		② If the input voltage is DC 250~375V, the AC slide switch must stay at 230V range.						
		③ Output tolerance included set up voltage, line regulation and load regulation.						
		④ Ripple & noise are measured at 115/230VAC 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.						
		⑤ The operating temperature shall follow the de-rating curve in spec						
		⑥ 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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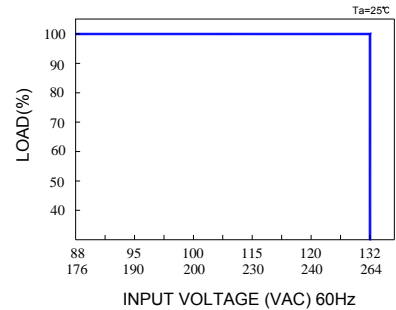
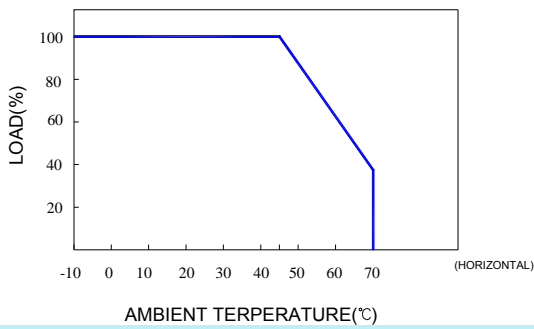
# SPS-S150-xx Series

## Block Diagram : SS2



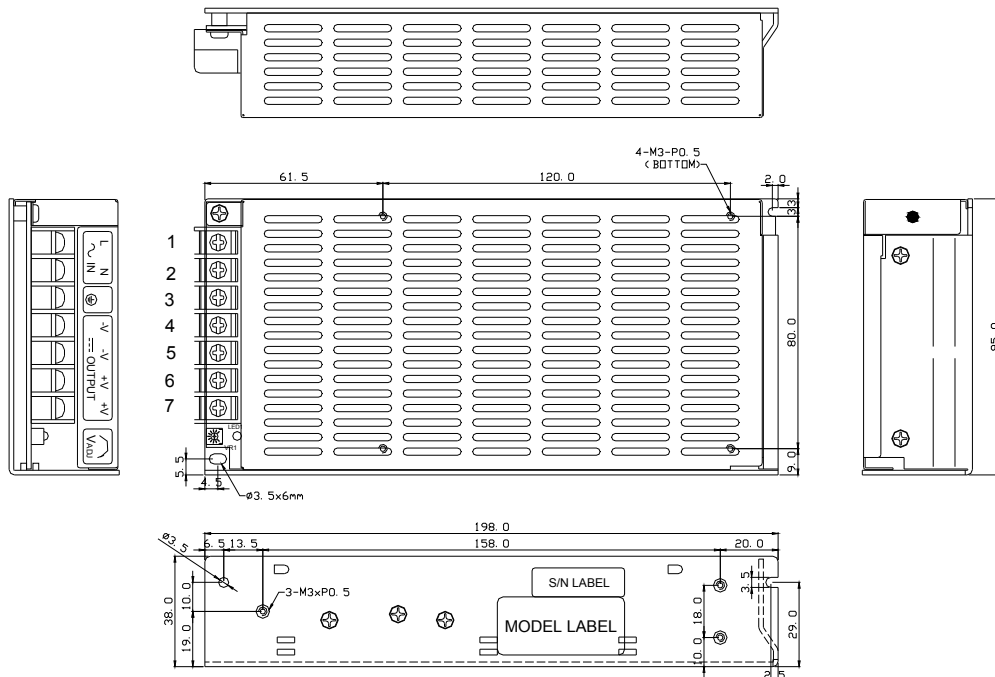
## De-rating Curve :

## Output De-rating Vs Input Voltage :



## Dimension:

(Unit: mm)



## NOTES:

1. TERMINAL BLOCK: 7P, PITCH 9.5mm WITH PC COVER.

MODEL No.	1	2	3	4	5	6	7
SPS-S150-xx	L	N	PE	-V	-V	+V	+V