



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-S100-xx Series

100W, Single Output



159 x 95 x 38 mm
6.26 x 3.74 x 1.5 inch



Features:

- * Light weight, compact size
- * 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:

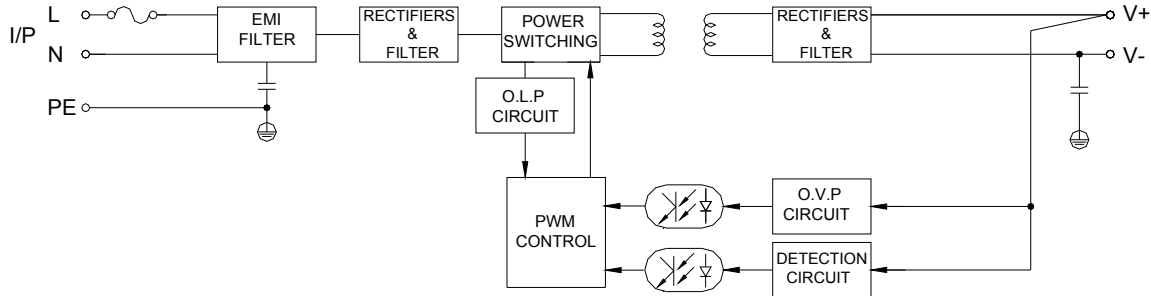
INPUT	Voltage	88V ~ 264VAC universal full range or 125V ~ 375VDC					
	Frequency	47 ----- 63 Hz					
	Current	<2.5A@100V AC input, full load condition					
	Inrush Current	<30A@115V , <60A@230V AC input, Cold start at 25℃ ambient					
	Leakage Current	<1.5mA@264V AC input					
OUTPUT	MODEL No.	SPS-S100-05	SPS-S100-12	SPS-S100-15	SPS-S100-24	SPS-S100-30	SPS-S100-48
	Voltage	5V	12V	15V	24V	30V	48V
	Min Load	0A	0A	0A	0A	0A	0A
	Max Load	16A	8.5A	7A	4.5A	3.6A	2.3A
	Output Tolerance ②	± 2%	± 1%	± 1%	± 1%	± 1%	± 1%
	Ripple Noise MAX. ③	70mV	120mV	150mV	200mV	200mV	250mV
	Efficiency (TYP.)	77%	81%	82%	84%	84%	85%
	Output MAX.	80W	102W	105W	108W	108W	110W
PROTECTION	Over Voltage	5.8~7.0V	13.8~16.8V	17.3~21.0V	27.6~33.6V	34.5~42V	55.2~67.2V
	Over Load & Short Circuit	Hiccup and recovers automatically after the fault is removed. When power supply over 105%~ 150% max load or short circuit acted, power supply will go into hiccup mode and recover automatically after the fault is removed.					
ELEC. CHAR.	Rise time	<20mS					
	Hold up time	>50mS@230V					
	Setup time	<1.5Sec@115V , <1Sec@230V,					
ENVIRONMENT	Temperature ④	Operating: -10 ~ +70℃ ; De-rating: 45 ~ 70℃ : 2.5%/℃ ; Storage: -20 ~ +85℃					
	Humidity	Operating: 20% ~ 90% RH (non condensing) ; Storage: 10% ~ 95% RH (non condensing)					
SAFETY	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℃/ 70% RH					
	Safety standard	UL 60950-1 2 nd , CSA C22.2 No. 60950-1- 07 1 st ,TUV EN 60950-1:2006,IEC 60950-1:2005, standard.					
EMC	EMI	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					
	EMS	EN 55024 : EN 61000-4-2,3,4,5,6,8,11					
OTHERS	Cooling	Natural Cooling.					
	M.T.B.F.	300K hours					
	Dimension	159 x 95 x 38 mm (L*W*H)					
	Packing	N.W.: 0.58Kg / 1pc; 30pcs/ 1.20 CUFT / 1 CTN					
NOTE	① All measurements which not mentioned are based on 230VAC input, output Max at ambient 25℃ / 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℃ 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 The output load may be requested for decreasing as de-rating curve in spec when low input voltage is under 100VAC ⑤ The power supply is considered a component of end-equipment. The end-equipment must be re-confirmed whether comply with EMC directives.						



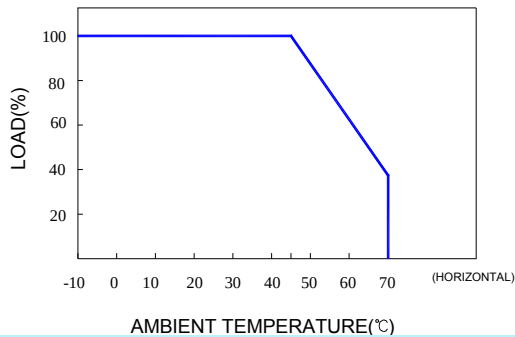
SUNPOWER TECHNOLOGY CORP.
 16F-1, No.150, Jian 1st Rd., Zhonghe Dist., New Taipei City 235, Taiwan (R.O.C.).
 TEL: 886-2-8226-3100 FAX: 886-2-8226-3111
<http://www.sunpower.com.tw>
 E-mail: sunpower@sunpower.com.tw

SPS-S100-xx Series

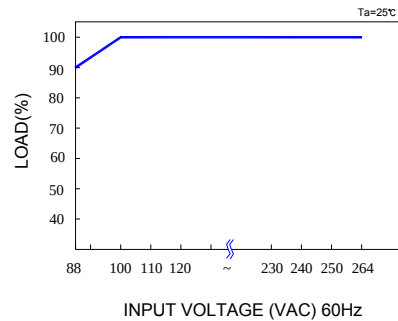
Block Diagram : US2



De-rating Curve :

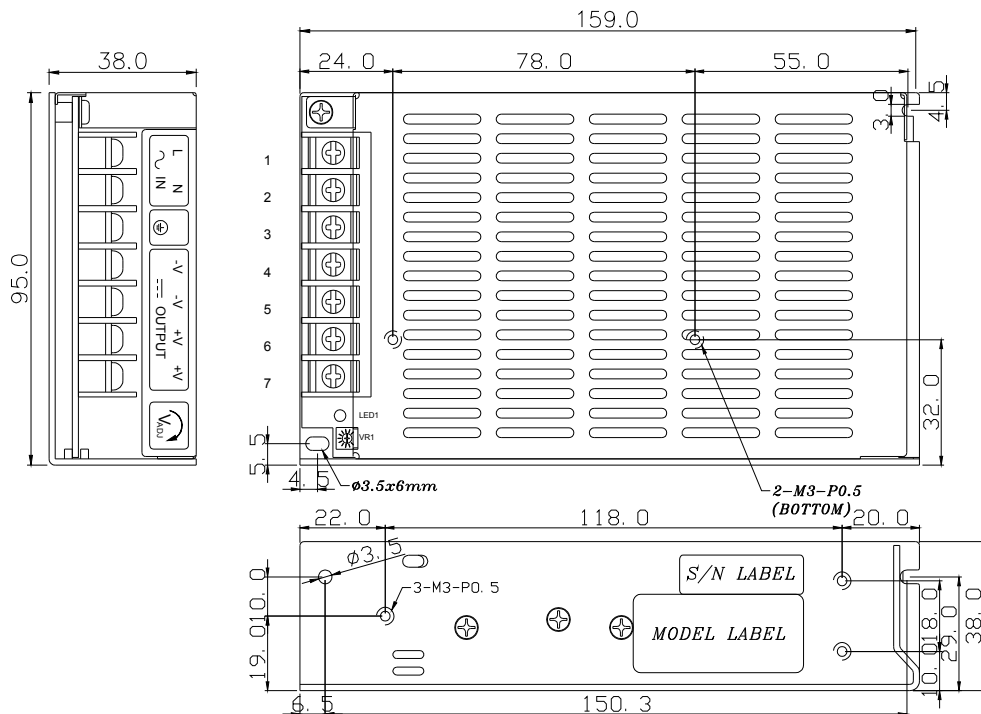


Output De-rating Vs Input Voltage :



Dimension:

(Unit: mm)



NOTES:

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

MODEL No.	1	2	3	4	5	6	7
SPS-S100-xx	L	N	PE	-V	-V	+V	+V