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
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SPS-110-xx Series

110W, Single Output

198 x 95 x 38 mm
7.80 x 3.74 x 1.50 inch

CE

Features:

- ∗ Power ON with LED indicator
- ∗ Built-in EMI filter, low ripple noise
- ∗ Over voltage protection
- ∗ Over load & short circuit protection
- ∗ Output voltage ±10% adjustment
- ∗ 100% full load burn-in test
- ∗ -20℃ to 70℃ operating temperature
- ∗ Meet UL, cUL, TUV, CB, CE standard
- ∗ 1 year warranty

Specification:

INPUT	**Voltage**	88V ~ 264VAC universal full range or 125V ~ 375VDC.						
	Frequency	47 ---- 63 Hz						
	Current	<3.0A @100V AC input, full load condition						
	Inrush Current	<35A@115V , <70@230V AC input. Cold start at 25℃ ambient						
	Leakage Current	<1.0mA@264V AC input						
OUTPUT	**MODEL No.**	**SPS-110-05**	**SPS-110-7.5**	**SPS-110-12**	**SPS-110-15**	**SPS-110-24**	**SPS-110-28**	**SPS-110-48**
	Voltage	5V	7.5V	12V	15V	24V	28V	48V
	Min Load	0A	0A	0A	0A	0A	0A	0A
	Max Load	20A	14A	9.2A	7.5A	4.6A	4A	2.3A
	Output Tolerance ②	± 2%	± 2%	± 1 %	± 1%	± 1%	± 1%	± 1%
	Ripple Noise MAX. ③	70mV	80mV	120mV	150mV	200mV	240mV	250mV
	Efficiency (TYP.)	76%	78%	82%	82%	85%	85%	86%
	Output MAX.	100W	105W	110W	113W	110W	110W	110W
PROTECTION	**Over Voltage**	5.8V ~ 7.0V	8.6V ~ 10.5V	13.8V~ 16.8V	17.3V~ 21.0V	27.6V~ 33.6V	32.2V~39.2V	55.2V~ 67.2V
		Shutdown and latch off, recover after re-start up.						
	Over Load & Short Circuit	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**	<50mS						
	Hold up time	>20mS@230V, full load condition						
	Setup time	<1.5 S@115V , <1.0 S@230V						
ENVIRONMENT	**Temperature** ④	Operating: -20 ~ 70℃ ; De-rating: 45 ~ 70℃: 2.5%/℃ ; Storage: -40 ~ +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:0.5KVDC, 1minute						
	Isolation resistance	I/P-O/P, I/P-PE, O/P-PE ＞100MΩ/500VDC at 25℃/ 70% RH						
	Safety standard	UL 60950-1 1st,CSA C22.2 No. 60950-1- 03 1st,TUV EN 60950-1:2001+A11,IEC 60950-1, standard						
EMC	**EMI**	Reference 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						
OTHERS	**Cooling**	Natural cooling.						
	M.T.B.F.	284 K hours						
	Terminal pitch	7P / 9.5mm with plastic cover, 90 deg terminal optional (with MOQ)						
	Packing	N.W.:0.71Kg / 1pc; 24pcs / 1.22 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.							

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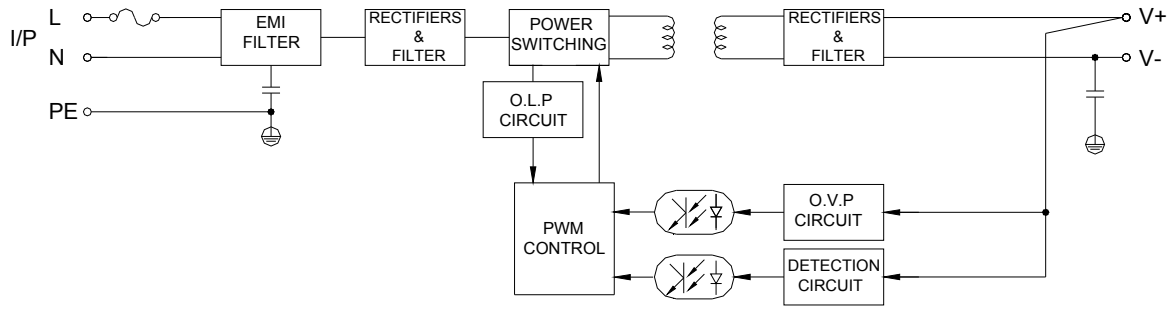
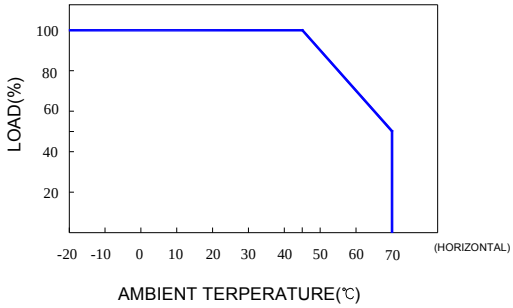
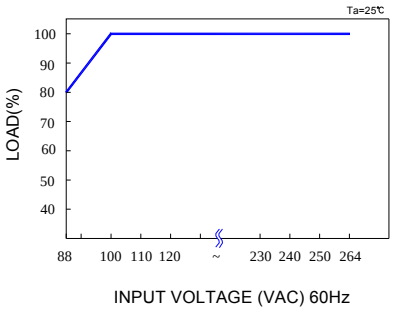
Block Diagram：US2



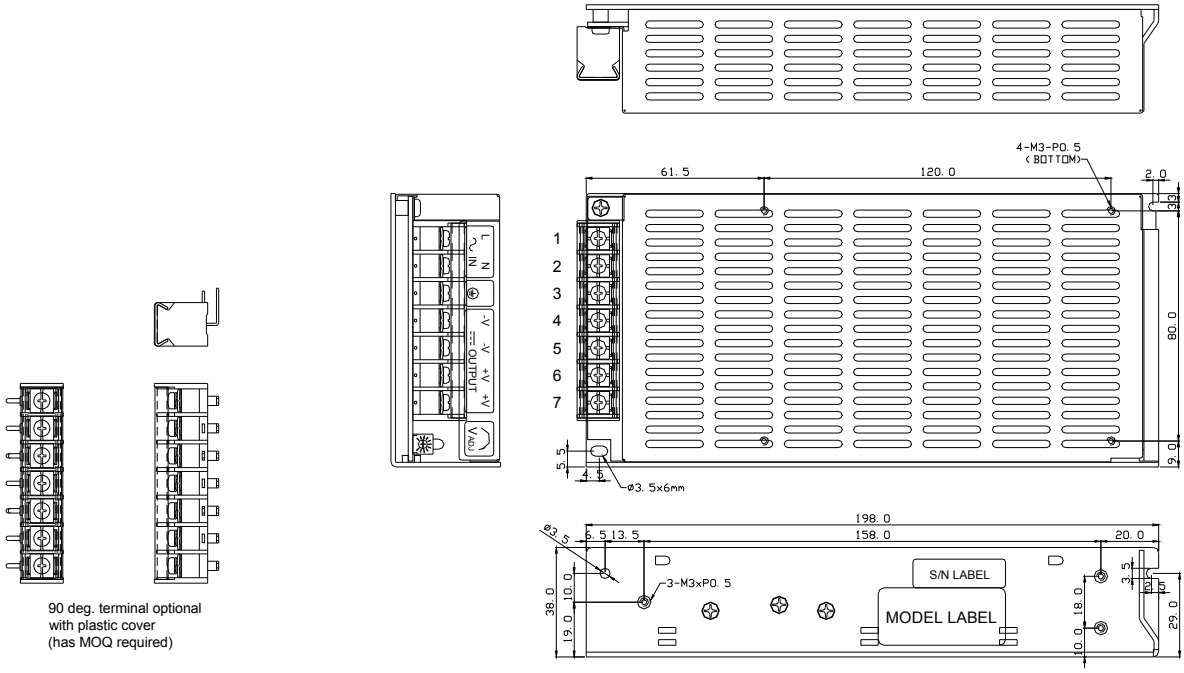
De-rating Curve：



Output De-rating Vs Input Voltage：



Dimension: (Unit: mm)



NOTES:

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

MODEL No.	1	2	3	4	5	6	7
SPS-110-xx	L	N	PE	-V	-V	+V	+V