



SUNPOWER TECHNOLOGY CORP.
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SPS-100 -xx Series

SPS-100P-xx Series

100W, Single Output
Green mode function



198 x 95 x 38 mm
7.80 x 3.74 x 1.50 inch
UL CB CE

Features:

- * Green-mode design, no load < 1W
- * Power ON with LED indicator
- * Built-in EMI filter, low ripple noise
- * Over voltage, over load & short circuit protection
- * Output voltage $\pm 10\%$ adjustment
- * 100% full load burn-in test
- * -20°C to 70°C operating temperature
- * UL, cUL, CB, CE approved
- * 3 years warranty

Specification:

INPUT	Voltage	88V ~ 264VAC universal full range or 125V ~ 375VDC.						
	Frequency	47 ---- 63 Hz						
	Current	<2.8A @100V AC input, full load condition						
	Inrush Current (TYP.)	35A@115V , 70A@230V AC input. Cold start at 25℃ ambient						
	Leakage Current	<1.0mA@264V AC input						
OUTPUT	MODEL No.	SPS-100 -3.3 SPS-100P-3.3	SPS-100 -05 SPS-100P-05	SPS-100 -12 SPS-100P-12	SPS-100 -15 SPS-100P-15	SPS-100 -24 SPS-100P-24	SPS-100 -30 SPS-100P-30	SPS-100 -48 SPS-100P-48
	Voltage	3.3V	5V	12V	15V	24V	30V	48V
	Min Load	0A	0A	0A	0A	0A	0A	0A
	Max Load	23A	20A	8.5A	7A	4.3A	3.5A	2.3A
	Output Tolerance ②	± 3%	± 2%	± 1 %	± 1 %	± 1 %	± 1 %	± 1 %
	Ripple Noise MAX. ③	70mV	70mV	120mV	150mV	240mV	240mV	250mV
	Efficiency (TYP.)	74%	78%	83%	84%	84%	85%	86%
	Output MAX.	76W	100W	102W	105W	103W	105W	110W
PROTECTION	Over Voltage	3.8~4.6V	5.8~7.0V	13.8~16.8V	17.3~21.0V	27.6~33.6V	34.5~42.0V	55.2~67.2V
	Over Load & Short Circuit	Shutdown and latch off, recover after re-start up. 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	>60mS@230V, full load condition						
	Setup time	<1 Sec@100 ~ 240V AC						
	Green mode function	Power consumption at no load < 1W at 240VAC input						
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)						
	Altitude	6562 ft (≐ 2000 m) operating						
SAFETY	Withstand voltage	I/P-O/P:3KVAC, I/P-FG:1.5KVAC, O/P-FG:0.5KVAC, 1minute						
	Isolation resistance	I/P-O/P, I/P-FG, O/P-FG >100MΩ/500VDC at 25℃/ 70% RH						
	Safety standard	UL 60950-1 2 nd ,CSA C22.2 No. 60950-1- 07 2 nd , IEC 60950-1:2005+A1+A2, approved						
EMC	EMI	EN 55032 CLASS B 、FCC CFR 47 PART 15 CLASS B Compliance to EN61000-3-2 CLASS A, EN61000-3-3, SPS-100P-xx models are built-in PFC choke to lower 25% THD (Total Harmonic Distortion) performance,						
	EMS	EN 55024 : EN 61000-4-2,3,4,5,6,8,11						
OTHERS	Cooling	Natural cooling.						
	M.T.B.F.	271K hours						
	Terminal pitch	7P / 9.5mm with plastic cover, 90 deg terminal optional (with MOQ)						
	Packing	N.W.:0.72Kg / 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 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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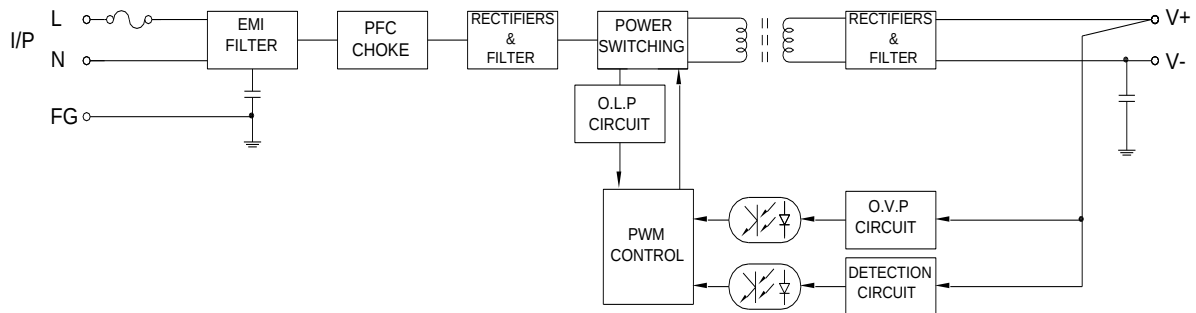
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SPS-100 -xx Series

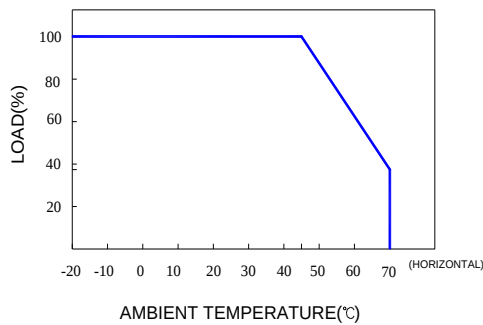
SPS-100P-xx Series

Block Diagram : US3-1

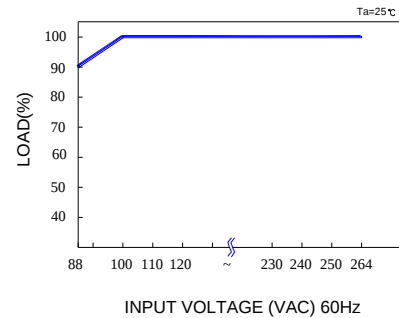


SPS-100 -xx series without PFC choke

De-rating Curve :

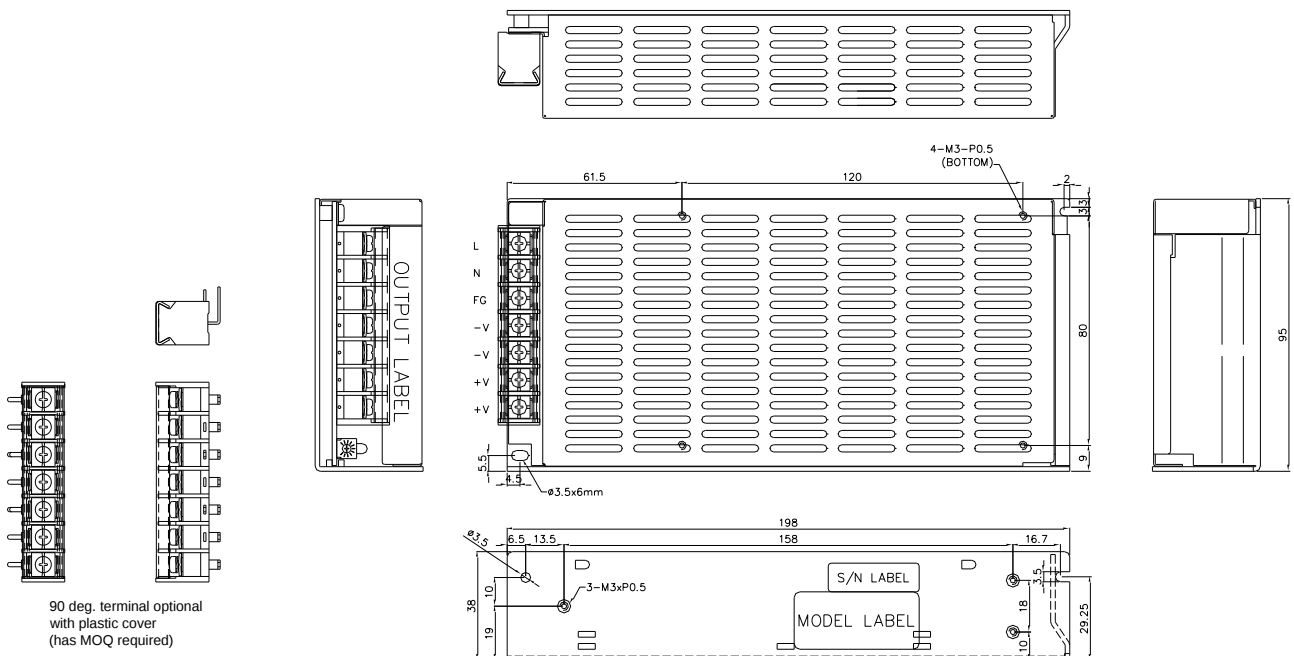


Output De-rating Vs Input Voltage :



Dimension:

(Unit: mm)



NOTES:

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

MODEL No.	1	2	3	4	5	6	7
SPS-100(P)-xx	L	N	FG	-V	-V	+V	+V