

SPS-100-xx Series

SPS-100P-xx Series



100W, Single Output
P.F.C Function Optional

198 x 95 x 38 mm
 7.80 x 3.74 x 1.50 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
- * 100% full load burn-in test
- * -20°C to 70°C operating temperature
- * UL, cUL, TUV, CB, CE standard

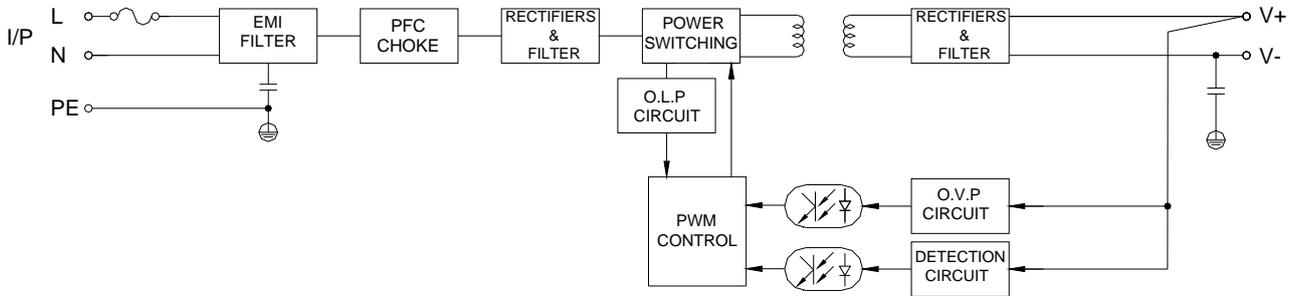
Specification:

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	<35A @115V , <70A @230V AC input. Cold start at 25°C ambient							
	Leakage Current	<2mA @264V AC input							
	Power Factor	SPS-100P-xx SER. (Meet IEC 1000-3-2 class A standard)							
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	$\pm 3\%$	$\pm 2\%$	$\pm 1\%$					
	Ripple Noise (MAX.) ③	70mV	70mV	120mV	150mV	240mV	240mV	300mV	
	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 When power supply over 105%~ 180% rate 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							
ENVIRONMENT	Temperature ④	Operating: -20 ~ 70°C ; De-rating: 45 ~ 70°C: 2.5%/°C ; Storage: -40 ~ +85°C							
	Humidity	Operating: 20% ~ 85%; Storage: 10% ~ 95% (non condensing)							
SAFETY & EMC	Safety standard	UL 60950-1, CSA C22.2 No.60950-1, TUV EN 60950-1, IEC 60950-1, EMKO-TSE (74-SEC) 207/94 standard							
	EMI	EN 55022 CLASS B · FCC CFR 47 PART 15 CLASS B · CNS 13438 CALSS B. Compliance to EN61000-3-2 CLASS A, EN61000-3-3 (The THD (Total Harmonic Distortion) performance of PFC models is better than Non-PFC models, when power supply in warm-up statue.)							
	EMS	EN 55024 : EN 61000-4-2,3,4,5,6,8,11							
OTHERS	Withstand voltage	I/P-O/P:3KVAC, I/P-PE:1.5KVAC, O/P-PE:0.5KVAC, 1minute							
	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 Cu ft ³ / 1 CTN							
NOTE	① All measurements which not mentioned are based on 230VAC input, output Max at ambient 25°C / 70%RH ② Output tolerance included set up voltage, line regulation and load regulation. ③ Ripple & noise are measured at 20MHz of bandwidth by terminated with a 0.1uF & a 47uF parallel capacitor when 100~240VAC input at 25°C 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. ⑥ A sound may occur from power supply at pulse loading.								

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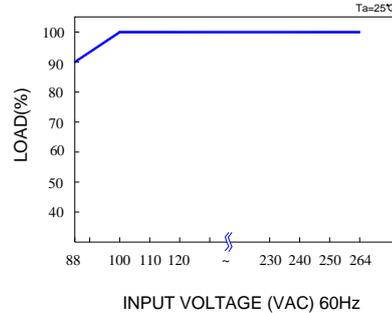
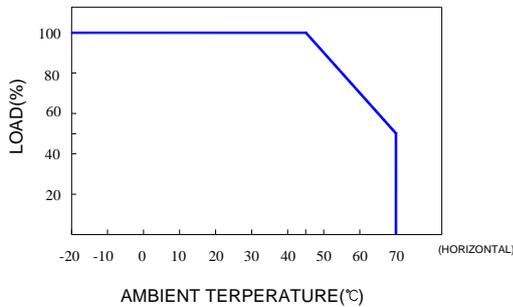
Block Diagram : US2



SPS- 100-xx series without PFC choke

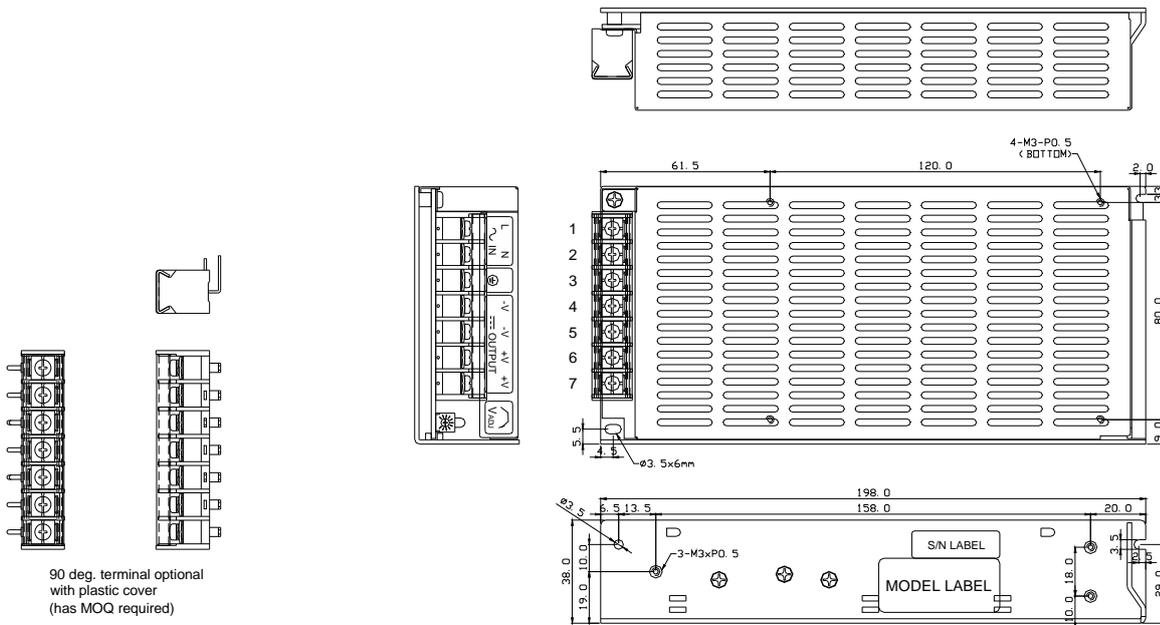
De-rating Curve :

Output De-rating Vs Input Voltage :



Dimension:

(Unit: mm)



90 deg. terminal optional with plastic cover (has MOQ required)

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	PE	-V	-V	+V	+V