

**SUNPOWER TECHNOLOGY CORP.**

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SPS-120P Series

120W, Single Output**Active P.F.C Function**

178 x 99 x 35 mm

7 x 3.9 x 1.38 inch



(NOT include SPS-120P-3.3 and SPS-120P-30)

Features:

- * Universal AC input with active power factor correction, P.F.>0.95
- * Built in EMI filter, low ripple noise
- * Over load, over voltage, short circuit protection
- * Over temperature protection (Optional)
- * Output voltage $\pm 10\%$ adjustment
- * Remote Control ON/OFF (Optional)
- * Non min. load requirement
- * 100% 50°C burn-in test
- * UL, cUL, TUV, CB, CE approved
- * 2 years warranty

Specification:

INPUT	Voltage	Universal input 85~264 VAC or 120~375VDC			
	Frequency	47 ----- 63 Hz			
	Current	<2.0 A max@100V AC input.			
	Inrush Current	<35A@115V / <70A@230V AC input.			
	Leakage Current	<1.5mA@264V AC input			
	Power Factor	Meet IEC 1000-3-2 class D standard, P.F.>0.95			
OUTPUT	MODEL	SPS-120P-3.3	SPS-120P-05	SPS-120P-7.5	SPS-120P-12
	Voltage	3.3 V	5 V	7.5 V	12 V
	Min. Load	0A			
	Max. Load	25 A	20 A	16 A	10 A
	Regulation	± 3 %	± 2 %	± 2 %	± 1 %
	Ripple Noise(MAX.)	50 mV	70 mV	80 mV	100 mV
	Efficiency (MIN.)	69 %	75 %	77 %	80 %
	Output(MAX.)	83 W	100 W	120 W	120 W
	MODEL	SPS-120P-15	SPS-120P-24	SPS-120P-30	SPS-120P-48
	Voltage	15 V	24 V	30 V	48 V
	Min. Load	0 A			
	Max. Load	8.0 A	5.0 A	4.0 A	2.5 A
	Regulation	±1 %			
	Ripple Noise (MAX.)	120 mV	150 mV	180 mV	250 mV
Efficiency (MIN.)	80 %	81 %	81 %	81 %	
Output (MAX.)	120 W				
PROTECTION	Over Load Protection	Over 105% ~ 180% of rating, shutdown and recovers automatically after fault condition has been removed.			
	Over Voltage Protection	3.3V : 3.8~4.6V	5V : 5.8V~7.0V	7.5V : 8.6~10.5V	12V : 13.8~17.5V
		15V : 17.3V~21.0V	24V : 27.6~33.6V	30V : 34.5V~42.0V	48V : 55.2V~67.2V
	Short Circuit Protection	Shutdown and recovers automatically after fault condition has been removed.			
OTHERS	Rise time	<50mS			
	Hold up time	>20mS@230V			
	Setup time	<2S @115VAC			
	Cooling	Natural Cooling			
Environment	Temperature	Operating: 0~70℃; Storage: -10~+75℃ De-rating: 40℃ ~70℃ : 2.5%/℃. (for 3.3V, 5V, 7.5V) De-rating: 45℃ ~70℃ : 2.5%/℃. (for 12V, 15V, 24V, 30V, 48V)			
	Humidity	Operating: 20% ~ 85%; Storage: 10% ~ 95% (non condensing)			
M.T.B.F.	224K hours				
SAFETY	UL 60950-1 st , CSA C22.2 No.60950-1 st ,TUV EN 60950-1 , IEC 60950-1 , EMKO-TSE (74-SEC)207/94 approved. (3.3V and 30V only meet standards.)				
EMC	EMI Standards	EN 55022、FCC CFR 47 PART 15 CLASS B、CNS 13438 CLASS B.			
	EMS Standards	EN 55024 : EN 61000-4-2,3,4,5,6,8.			

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Specifications subject to change without notice.

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Dimension:

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