



SUNPOWER TECHNOLOGY CORP.  
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# SPS-150P Series

150W, Single Output  
 Active P.F.C.



198 x 99 x 50 mm  
 7.80 x 3.90 x 1.97 inch



## Features:

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

## Specification:

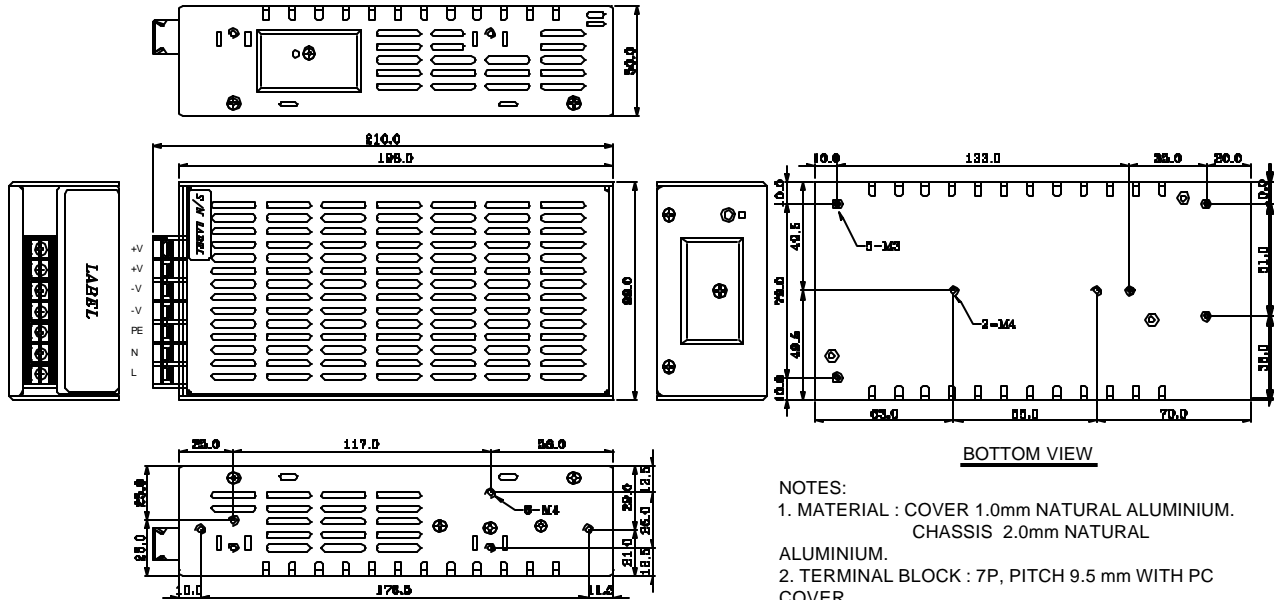
INPUT	Voltage	85V --- 264VAC or 120V --- 375VDC, universal full range, single phase.			
	Frequency	47 ---- 63 Hz			
	Current	2.2A max@100V AC input, full load condition			
	Inrush Current	<35A@115V / <70A@230V AC input, full load condition. Cold start at 25 ambient			
	Leakage Current	<1.5mA@264V AC input			
OUTPUT	MODEL	SPS-150P-3.3	SPS-150P-05	SPS-150P-7.5	SPS-150P-12
	Voltage	3.3V	5V	7.5V	12V
	Min. Load	0A			
	Max. Load	30A	30A	20A	12.5A
	Regulation	$\pm 3\%$	$\pm 2\%$		$\pm 1\%$
	Ripple & Noise (MAX)	50mV	70mV	80mV	100mV
	OVP	+ 3.8 ~ 4.6 V	+ 5.8 ~ 7.0 V	+ 8.6 ~ 10.5 V	+ 13.8 ~ 17.5 V
	Efficiency (TYP)	69%	75%	77%	80%
	Max. Power	100W	150W		
	MODEL	SPS-150P-15	SPS-150P-24	SPS-150P-27	SPS-150P-48
	Voltage	15V	24V	27V	48V
	Min. Load	0A			
	Max. Load	10A	6.3A	5.6A	3.2A
	Regulation	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$
	Ripple & Noise (MAX)	120mV	150mV	180mV	250mV
OVP	+ 17.3 ~ 21.0 V	+ 27.6 ~ 33.6 V	+ 31.1 ~ 37.8 V	+ 55.2 ~ 67.2 V	
Efficiency (TYP)	80%	82%	82%	84%	
Max. Power	150W				
PROTECTION	Over Voltage Protection	✓			
	Over Load Protection	Over 105% ~ 180% of rating, recovers automatically after fault condition has been removed.			
	Over Temp Protection	Optional			
	Short Circuit Protection	Shutdown, recovers automatically after fault condition has been removed.			
OTHERS	Rise time	<20mS			
	Hold up time	>20mS@230V			
	Setup time	>2 Sec@115V			
	Remote Control	Option. RC+/RC-: 0~0.7V= Power On; 3~5V= Power Off. Sink Current: 3~10 mA .			
	Cooling	Natural Cooling			
Environment	Temperature	Operating: -10~70 ; De-rating: 50 ~70 : 2.5%/ . Storage: -10~+75			
	Humidity	Operating: 20% ~ 85%; Storage: 10% ~ 95% (non condensing)			
M.T.B.F.	232K hours				
SAFETY	UL 60950 3 <sup>rd</sup> , CSA C22.2 No.60950 3 <sup>rd</sup> , TUV EN 60950, IEC 60950, EMKO-TSE (74-SEC)207/94 approved. CCC GB 4943 standard.				
EMC	EMI	EN 55022 CLASS B EN 61000-3-2,3 FCC CFR 47 PART 15 CLASS B CNS 13438 CLASS B.			
	EMS	EN 55024 EN 61000-4-2,3,4,5,6,8,11.			



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Dimension:

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**BOTTOM VIEW**

- NOTES:  
1. MATERIAL : COVER 1.0mm NATURAL ALUMINIUM.  
CHASSIS 2.0mm NATURAL ALUMINIUM.  
2. TERMINAL BLOCK : 7P, PITCH 9.5 mm WITH PC COVER.  
3. UNIT : mm.