



SUNPOWER TECHNOLOGY CORP.
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SPD-A150P-xx Series

150W, Single Output

Compliance with ErP second stage

Active P.F.C & Green mode Function



170 x 70 x 40 mm
6.69 x 2.76 x 1.57 inch



Features:

- * Universal AC input with active PFC function, P.F.>0.95
- * 3 pole AC inlet IEC320-C14, enclose plastic case
- * Green mode function, no load < 0.5W
- * ZVS design available
- * High efficiency up 90%
- * Over voltage , over load , short circuit , over temperature protection
- * Compliance with Energy star requirement
- * Eco-design Requirements for ErP Directive, (EC) NO 278/2009, Second stage compliance
- * Meet Energy Independence and Security Act of 2007
- * UL, cUL, TUV ,CB, CE standard
- * 2 years warranty

Specification:

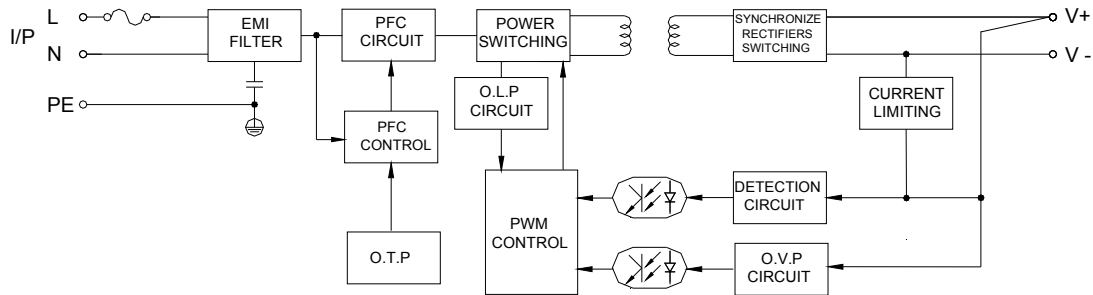
INPUT	Voltage	90V ~ 264VAC universal full range or 127V ~ 375VDC.					
	Frequency	47 ---- 63 Hz					
	Current	<1.9@100V AC input, full load condition					
	Inrush Current	<90A@115V , <120A@230V AC input. Cold start at 25℃ ambient					
	Leakage Current	<1.0mA@264V AC input					
	Power Factor	PF > 0.95					
OUTPUT	MODEL No.	SPD-A150P-12	SPD-A150P-15	SPD-A150-19	SPD-A150P-24	SPD-A150P-27	SPD-A150P-48
	Voltage	12V	15V	19V	24V	27V	48V
	Min Load	0A	0A	0A	0A	0A	0A
	Max Load	11.3A	10A	7.9A	6.3A	5.6A	3.2A
	Output Tolerance ②	± 3%	± 3%	± 3%	± 2%	± 2%	± 2%
	Ripple Noise MAX. ③	120mV	150mV	150mV	240mV	240mV	240mV
	Efficiency (TYP.)	87%	87%	88%	88%	88%	90%
	Output MAX.	136W	150W	150W	151W	151W	154W
PROTECTION	Over Voltage	13.8~16.8V	17.3~21V	21.9~26.6V	27.6~33.6V	31~37.8V	55.2~67.2V
		Shutdown and latch off, recover after re-start up.					
	OverLoad & ShortCircuit	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.	Over Temperature	Over 95℃, the power supply will be shutdown.					
	Rise time	<20mS					
	Hold up time	>20mS@230V, full load condition					
	Setup time	<2.0S@100 ~ 240V AC					
ENVIRONMENT	Green mode function	Power consumption at no load < 0.5W					
	Temperature ④	Operating: -20 ~ 70℃ ; De-rating: 45 ~ 70℃: 2.5%/℃ ; Storage: -40 ~ +85℃					
SAFETY	Humidity	Operating: 20% ~ 90% RH (non condensing); Storage: 10% ~ 95% RH (non condensing)					
	Withstand voltage	I/P-O/P:3KVAC, 1minute					
	Isolation resistance	I/P-O/P, > 100MΩ/500VDC at 25℃/ 70% RH					
EMC	Safety standard	UL 60950-1 2 nd , CSA C22.2 No. 60950-1- 07 2 nd , TUV EN 60950-1:2006+A11, IEC 60950-1:2005, standard.					
	EMI	EN 55022 CLASS B · FCC CFR 47 PART 15 CLASS B · CNS 13438 CLASS B.					
		Compliance to EN61000-3-2 CLASS D, EN61000-3-3					
OTHERS	EMS	EN 55024 : EN 61000-4-2,3,4,5,6,8,11					
	Cooling	Natural Cooling.					
	M.T.B.F.	314 K hours at 25℃					
	Dimension	170 x 70 x 40 mm (L*W*H)					
NOTE	Packing	N.W.: 0.65 Kg / 1pc; 24 pcs / 1.22 CUFT / 1 CTN					
	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 10~50℃ condition and 20MHz of bandwidth by 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.						



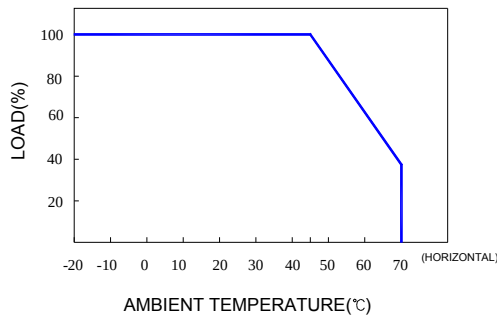
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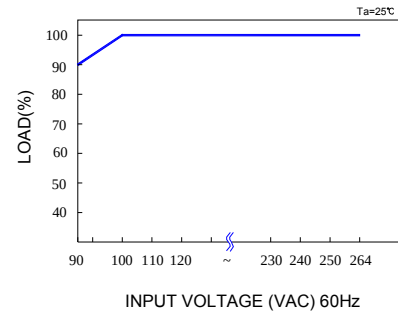
Block Diagram : PS24



De-rating Curve :

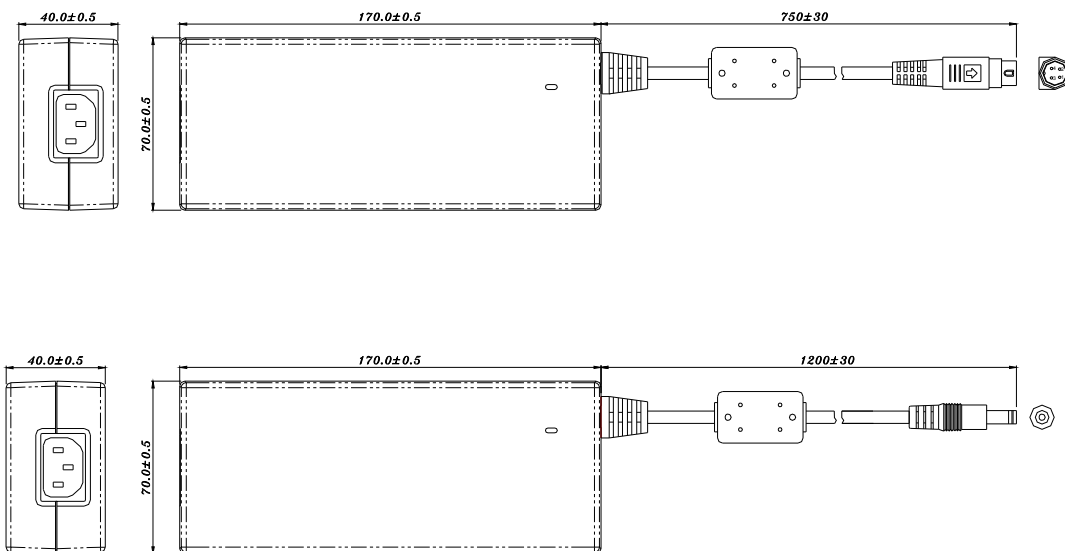


Output De-rating Vs Input Voltage :



Dimension:

(Unit: mm)



Plug Assignment :

For 12V,15V,19 V,24V,27V,48V		
PIN No.	Output	
1, 2	-V	
3, 4	+V	

For 24V,48V		
PIN	Output	
center	+	
ID 2.5*OD5.5		