



SUNPOWER TECHNOLOGY CORP.
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SPU-150P-IDx Series

150W, Dual Output

Active P.F.C Function

133.5 x 84 x 38 mm
 5.26 x 3.30 x 1.50 inch



Features:

- * Universal AC input with active power factor correction, P.F.>0.95
- * V1 · V2 outputs are isolated
- * Power ON with LED indicator
- * Built-in EMI filter, low ripple noise
- * Over voltage protection
- * Over load & short circuit protection
- * V1 output voltage $\pm 10\%$ adjustment
- * Output voltage remote sense
- * Over temperature protection (Optional)
- * 100% full load burn-in test
- * UL, cUL, TUV, CB, CE standard
- * 2 years warranty

Specification:

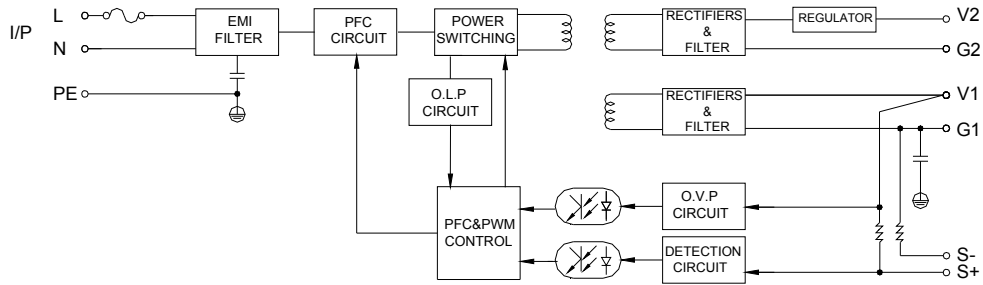
INPUT	Voltage	88V ~ 264VAC universal full range or 125V ~ 375VDC.					
	Frequency	47 ----- 63 Hz					
	Current	<2.3A@100VAC input, full load condition					
	Inrush Current	<35A@115V , <70A@230V AC input. Cold start at 25°C ambient					
	Leakage Current	<1.0mA@264V AC input					
	Power Factor	PF > 0.95					
	OUTPUT	MODEL No.	SPU-150P-ID5		SPU-150P-ID6		SPU-150 P-ID7
Voltage		V1	V2	V1	V2	V1	V2
		12V	5V	24V	5V	48V	5V
Min Load		1A	0A	0.5A	0A	0.3A	0A
Max Load		12.5A	3A	6.3A	3A	3.2A	3A
Output Tolerance ②		$\pm 1\%$	$\pm 3\%$	$\pm 1\%$	$\pm 3\%$	$\pm 1\%$	$\pm 3\%$
Ripple Noise MAX. ③		120mV	70mV	200mV	70mV	240mV	70mV
Efficiency (TYP.)		82%		84%		85%	
Output MAX.	150W		150W		150W		
PROTECTION	Over Voltage	13.8 ~ 16.8V	---	27.6 ~ 33.6V	---	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 be shutdown and recover automatically after the fault is removed.					
	Over Temperature	Optional, Over 95°C \pm 5°C Shutdown, recovers automatically after fault condition has been removed.					
ELEC. CHAR.	Rise time	<20mS					
	Hold up time	>20mS@230V, full load condition					
	Setup time	<2 Sec@100 ~ 240V AC					
	Remote sensing	(RS+, RS-).					
ENVIRONMENT	Temperature ④	Operating: -20 ~ +70°C ; De-rating: 45 ~ 70°C : 2.5%/°C ; Storage: -40 ~ +85°C					
	Humidity	Operating: 20% ~ 90% RH (non condensing) ; Storage: 10% ~ 95% RH (non condensing)					
SAFETY	Withstand voltage	I/P-O/P:3KVAC, I/P-PE:1.5KVAC, O/P-PE:0.5KVAC, 1minute					
	Isolation resistance	I/P-O/P, I/P-PE, O/P-PE > 100M Ω /500VDC at 25°C / 70% RH					
	Safety standard	UL 60950-1 2 nd , CSA C22.2 No. 60950-1- 07 2 nd , TUV EN 60950-1:2006, IEC 60950-1:2005, standard.					
EMC	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					
	EMS	EN 55024 : EN 61000-4-2,3,4,5,6,8,11					
OTHERS	Cooling	Natural cooling, when output exceed 120W, a 16 CFM(min) DC fan is required					
	M.T.B.F.	___ K hours					
	Dimension	133.5 x 84 x 38 mm (L*W*H)					
	Packing	N.W.: ___ Kg / 1pc; 18 pcs / 1.38 CUFT / 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 100~254VAC input with 0~50°C 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 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.					



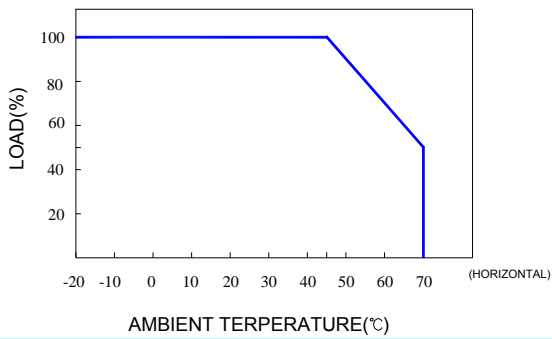
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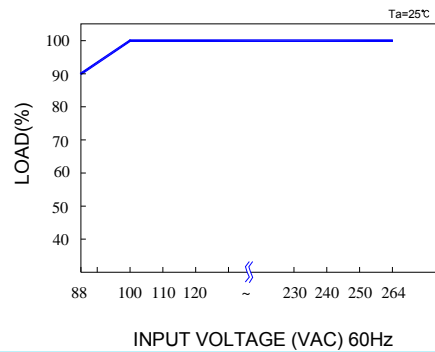
Block Diagram : PD4



De-rating Curve :



Output De-rating Vs Input Voltage :



Dimension:

(Unit: mm)

NOTES:

TERMINAL BLOCK: I/P:3P P=3.96mm(Pin 2 CUT)

MODEL No.	1	2	3
SPU-150P-IDx	L	N/A	N

TERMINAL BLOCK: O/P:12P, P=3.96mm

MODEL No.	1	2	3	4	5	6	7	8	9	10	11	12
SPU-150P- IDx	V1	V1	V1	V1	V1	G1	G1	G1	G1	G1	G2	V2