



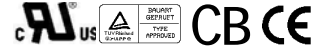
SUNPOWER TECHNOLOGY CORP.
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SPU-100-Dx Series

100W, Dual Output



133.5 x 84 x 38 mm
 5.26 x 3.30 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
- * V1 output voltage $\pm 10\%$ adjustment
- * 100% full load burn-in test
- * Built-in cooling DC Fan 12V base
- * UL, cUL, TUV, CB, CE approved (SPU-100-D5 for CE mark only)
- * 2 years warranty

Specification:

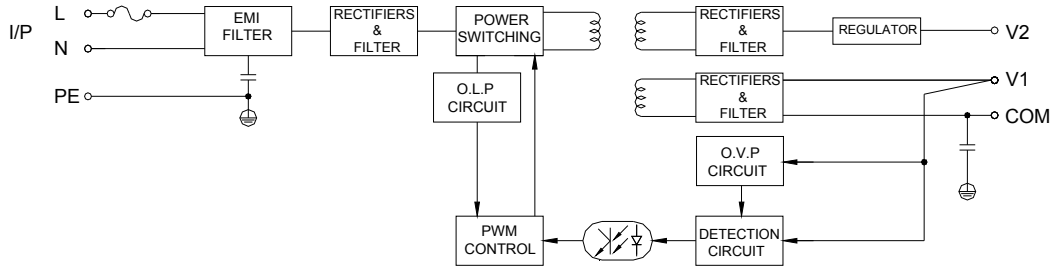
INPUT	Voltage	90V ~ 264VAC universal full range or 127V ~ 375VDC.							
	Frequency	47 ---- 63 Hz							
	Current	<3.0A@100VAC input, full load condition							
	Inrush Current	<30A@115V , <60A@230V AC input. Cold start at 25°C ambient							
	Leakage Current	<1.0mA@264V AC input							
OUTPUT	MODEL No.	SPU-100-D1		SPU-100-D2		SPU-100-D3		SPU-100-D5	
	Voltage	V1	V2	V1	V2	V1	V2	V1	V2
		5V	12V	5V	24V	24V	5V	12V	5V
	Min Load	2A	0A	2A	0A	0.2A	0A	0.2A	0A
	Max Load	20A	2.5A	20A	2A	4.2A	2A	8.5A	3A
	Output Tolerance ②	$\pm 3\%$	$\pm 6\%$	$\pm 3\%$	$\pm 6\%$	$\pm 2\%$	$\pm 3\%$	$\pm 2\%$	$\pm 3\%$
	Ripple Noise MAX. ③	70mV	80mV	70mV	200mV	200mV	70mV	120mV	70mV
	Efficiency (TYP.)	74%		75%		77%		79%	
Output MAX.	100W		100W		100W		100W		
PROTECTION	Over Voltage	5.8 ~7.0V	---	5.8 ~7.0V	---	27.6 ~ 33.6V	---	13.8 ~ 16.8V	---
	Over Load & Short Circuit	Hiccup and recovers automatically after the fault is removed. When power supply over 105%~ 180% max 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	>80mS@230V, full load condition							
	Setup time	<1.5 S@115V , <1.0 S@230V							
ENVIRONMENT	Temperature ④	Operating: 0 ~ +70°C ; De-rating: 45 ~ 70°C : 2.5%/°C ; Storage: -10 ~ +75°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:0.5KVDC, 1minute							
	Isolation resistance	I/P-O/P, I/P-PE, O/P-PE > 100MΩ/500VDC at 25°C/ 70% RH							
	Safety standard	UL 60950 3 rd , CSA C22.2 No.950-95 3 rd , TUV EN 60950-1:2001+A11, IEC 60950, approved. UL 60950-1 2 nd , CSA C22.2 No. 60950-1- 07 1 st , TUV EN 60950-1:2006, IEC 60950-1:2005, standard. (for SPU-100-D5 only)							
EMC	EMI	EN 55022 CLASS B · FCC CFR 47 PART 15 CLASS B · CNS 13438 CLASS B. Compliance to EN61000-3-2 CLASS A, EN61000-3-3							
	EMS	EN 55024 : EN 61000-4-2,3,4,5,6,8,11							
OTHERS	Cooling	Natural cooling, when output exceed 80W, a 16 CFM(min) DC FAN is required							
	M.T.B.F.	267 K hours							
	Dimension	133.5 x 84 x 38 mm (L*W*H)							
	Packing	N.W.:0.6 Kg / 1pc; 30 pcs / 1.24 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. The regulation is measured between 20%~100% max load of each output, Total output must under output Max . 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.								



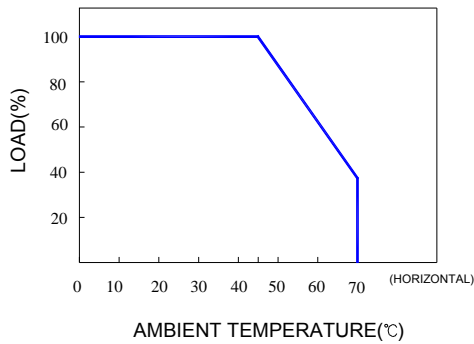
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SPU-100-Dx Series

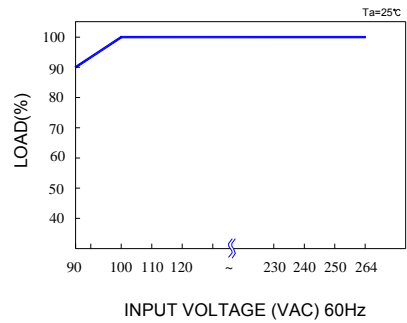
Block Diagram : UD1-1



De-rating Curve :

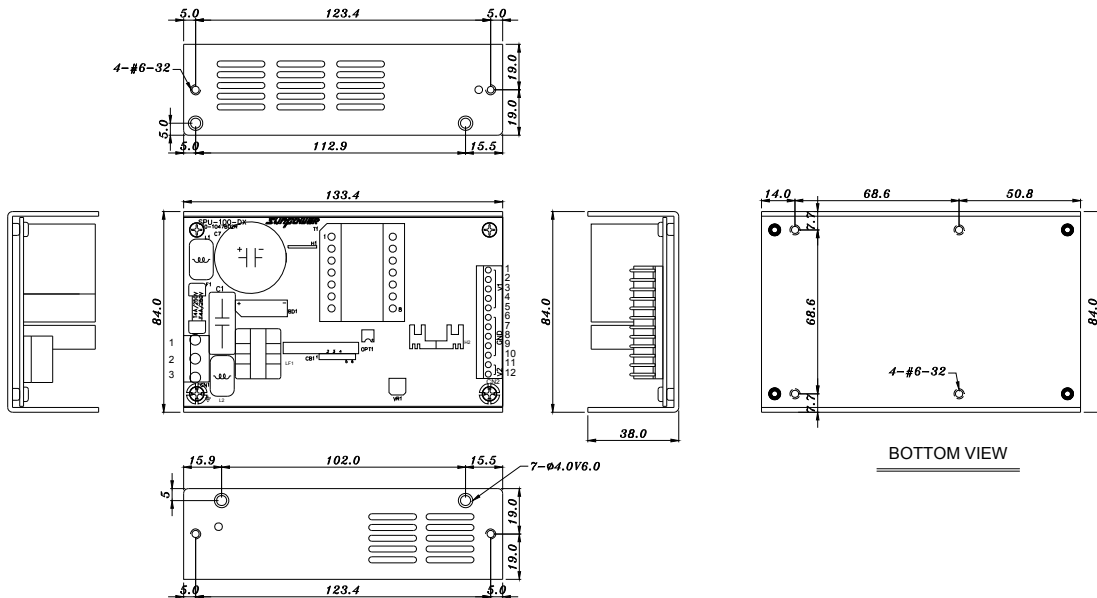


Output De-rating Vs Input Voltage :



Dimension:

(Unit: mm)



NOTES:

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

MODEL No.	1	2	3
SPU-100-Dx	L	N	PE

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

MODEL No.	1	2	3	4	5	6	7	8	9	10	11	12
SPU-100-Dx	V1	V1	V1	V1	V1	GND	GND	GND	GND	GND	V2	V2