



SUNPOWER TECHNOLOGY CORP.
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SDU-200M-IDx Series



198 x 97 x 38 mm

7.8 x 3.82 x 1.50 inch

200W, Dual Output



Features:

- * DC Input 19V ~ 72V
- * Input protection: fuse 20A/250V
- * Free air convection for 150W and 200W with 18CFM forced air
- * Low inrush current, soft start function
- * Input & output isolation
- * Input polarity reverse protection
- * Over voltage, over load & short circuit protection
- * V1 voltage $\pm 10\%$ adjustment
- * 100% full load burn-in test
- * Meet LVD standard
- * 2 years warranty

Specification:

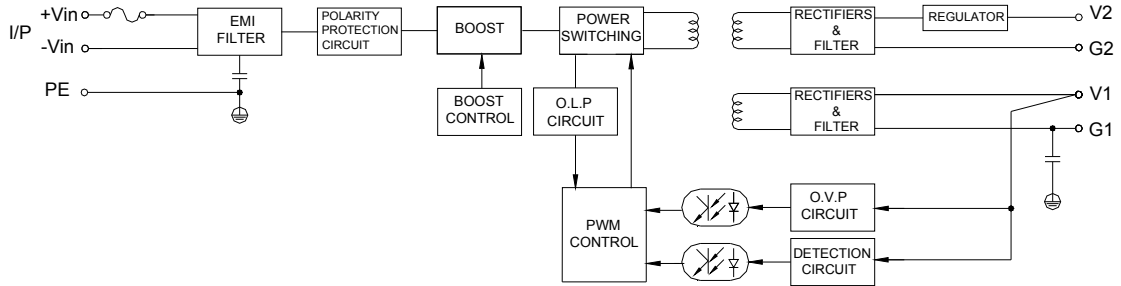
INPUT	Voltage	DC 19V ~ 72V					
	Current	11.2A max at 24V DC input, full load condition					
OUTPUT	MODEL	SDU-200M-ID5		SDU-200M-ID6		SDU-200M-ID7	
	Voltage	V1	V2	V1	V2	V1	V2
		12V	5V	24V	5V	48V	5V
	Min Load	1A	0A	0.5A	0A	0.3A	0A
	Max Load	16A	4A	8A	4A	4A	4A
	Output Tolerance ②	$\pm 1\%$	$\pm 5\%$	$\pm 1\%$	$\pm 5\%$	$\pm 1\%$	$\pm 5\%$
	Ripple Noise MAX. ③	120mV	70mV	200mV	70mV	240mV	70mV
	Efficiency (TYP)	82%		83%		84%	
	Output MAX.	200W					
PROTECTION	Over Voltage	V1: 13.8V ~ 16.8V		V1: 27.6V ~ 33.6V		V1: 55.2V ~ 67.2V	
	Over Load & Short Circuit	Shutdown and latch off, recover after re-start up. 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.					
ELEC. CHAR	Rise time	<20mS					
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:2.0KVAC, I/P-PE:1.5KVAC, O/P-PE:0.5KVAC, 1minute					
	Isolation resistance	I/P-O/P, I/P-PE, O/P-PE > 100MΩ/500VDC at 25°C / 70% RH					
EMC	EMI	EN 55022 CLASS B · FCC CFR 47 PART 15 CLASS B · CNS 13438 CLASS B.					
	EMS	EN 55024 : EN 61000-4-2,3,4,6,8 ; ENV 50204					
OTHERS	Cooling	Natural cooling, when output exceed 150W, a 18CFM(min) DC fan is required					
	M.T.B.F.	_____ K hours at 25°C					
	Dimension	198 x 97 x 38 mm (L*W*H)					
	Packing	N.W.:0.9 Kg / 1pc; 18pcs / 1.38 CUFT / 1 CTN					
NOTE	① All measurements which not mentioned are based on 24VDC 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 21~72VDC 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 ⑤ The power supply is considered a component of end-equipment. The end-equipment must be re-confirmed whether comply with EMC directives.						



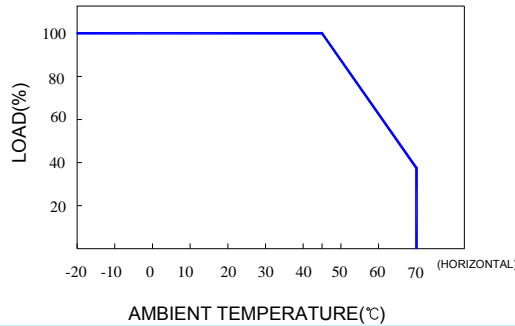
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Block Diagram : DD3

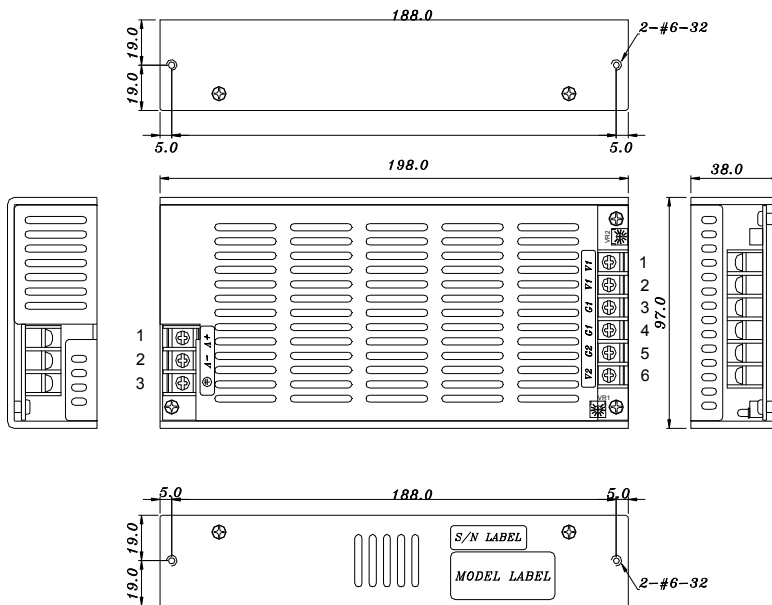


De-rating Curve :



Dimension:

(Unit: mm)



NOTES:

TERMINAL BLOCK: I/P=3P, P=9.5mm

MODEL No.	1	2	3
SDU-200M-IDx	+V	-V	PE

TERMINAL BLOCK: O/P:6P, P=9.5mm

MODEL No.	1	2	3	4	5	6
SDU-200M-IDx	V1	V1	G1	G1	G2	V2