SUNPOWER TECHNOLOGY CORP.
33485 Western Ave., Union City, CA 94587, United States of America
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SDU-300M-IDx Series

203 x 114 x 50.5 mm

7.99 x 4.49 x 1.99 inch

300W, Dual Output

CE

Features:

- DC Input 19V ~ 72V
- Input protection: fuse 25A/250V
- Low inrush current, soft start function
- Input & output isolation
- Input polarity reverse protection
- Over voltage, over load & short circuit protection
- Over temperature protection (Optional)
- V1 voltage ±10% adjustment
- 100% full load burn-in test
- Meet LVD standard
- 2 years warranty

Specification:

INPUT	**Voltage**	DC 19V ~ 72V					
	Current	16.8A max at 24V DC input full load condition					
OUTPUT	**MODEL**	SDU-300M-ID5		SDU-300M-ID6		SDU-300M-ID7	
	Voltage	V1	V2	V1	V2	V1	V2
		12V	5V	24V	5V	48V	5V
	Min Load	1.5A	0A	0.8A	0A	0.4A	0A
	Max Load	25A	6A	12.5A	6A	6.3A	6A
	Output Tolerance ②	±1%	±5%	±1%	±5%	±1%	±5%
	Ripple Noise MAX. ③	120mV	70mV	200mV	70mV	240mV	70mV
	Efficiency (TYP)	82%		84%		85%	
	Output MAX.	300W		300W		302W	
PROTECTION	**Over Voltage**	V1: 13.8V ~ 16.8V		V1: 27.6V ~ 33.6V		V1: 55.2V ~ 67.2V	
		Shutdown and latch off, recover after re-start up.					
	Over Load & Short Circuit	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℃± 5℃ Shutdown, recovers automatically after fault condition has been removed.					
ELEC. CHAR	**Rise time**	<30mS					
ENVIRONMENT	**Temperature** ④	Operating: -20 ~ +70℃ ; De-rating: 50 ~ 70℃: 2.5%/℃ ; Storage: -40 ~ +85℃					
	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℃/ 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**	Forced airflow cooling with DC fan.					
	M.T.B.F.	___ K hours at 25℃					
	Dimension	203 x 114 x 50.5 ㎜ (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℃ / 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 t must under **output Max.** ③ Ripple & noise are measured at 21～72VDC input with 0～50℃ 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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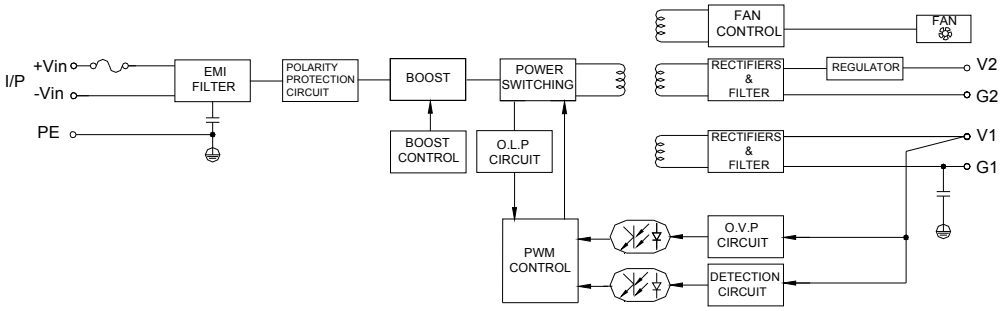
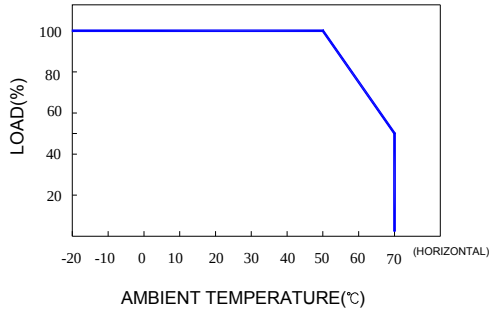
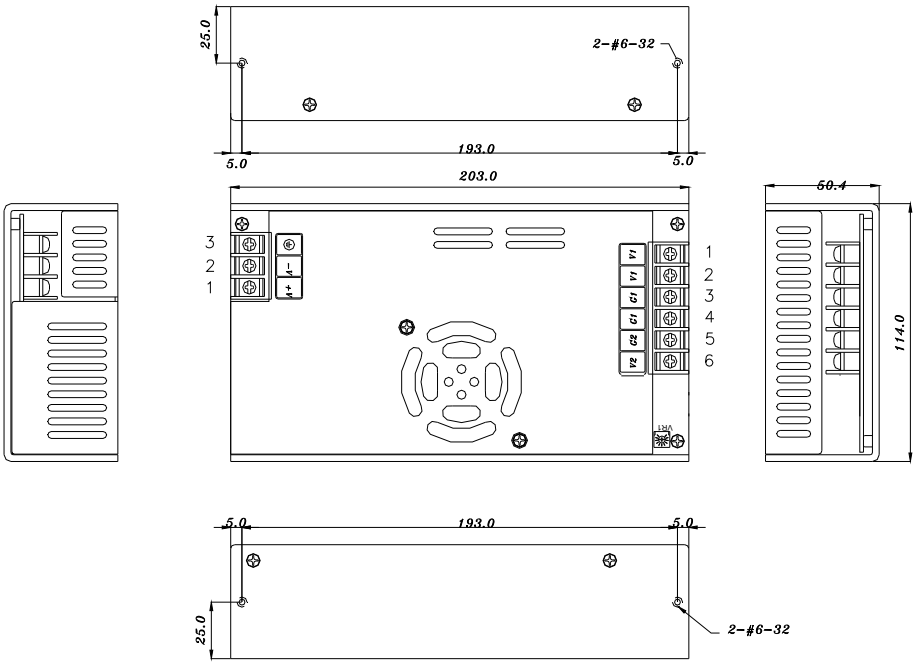
Block Diagram：DD4



De-rating Curve：



Dimension: (Unit: mm)



NOTES:

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

MODEL No.	1	2	3
SDU-300M-IDx	+V	-V	PE

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

MODEL No.	1	2	3	4	5	6
SDU-300M- IDx	V1	V1	G1	G1	G2	V2