



SDN-100B/C/D-xx Series

100W, Single Output

24V / 48V / 96V DC Input



159 x 95 x 38 mm
6.26 x 3.74 x 1.50 inch



Features:

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|-------------------------------------|--|
| * Power ON with LED indicator | * Over voltage, over load & short circuit protection |
| * Input and output isolation | * Output voltage $\pm 10\%$ adjustment |
| * Non min. load requirement | * 100% full load burn-in test |
| * Input polarity reverse protection | * According to the LVD Directive 2014/35/EU |
| * Input under voltage protection | * 3 years warranty |
| * Natural Cooling | * D series without 3.3V model |

Specification:

INPUT	Model NO.		SDN-100B-xx Ser.		SDN-100C-xx Ser.		SDN-100D-xx Ser.	
	Voltage		18 ~ 36V DC (Typical 24V)		36 ~ 72V DC (Typical 48V)		72 ~ 144V DC (Typical 96V)	
	Current		<8A @ 18V DC		<4A @ 36V DC		<2A @ 72V DC	
	Protection		Fuse , 10A/250V		Fuse , 6A/250V		Fuse , 3A/250V	
OUTPUT	Voltage		3.3V	5V	12V	24V	48V	
	Min Load		0A	0A	0A	0A	0A	
	Max Load		25A	18A	8.4A	4.2A	2.1A	
	Output Tolerance ②		±3%	±2%	±1%	±1%	±1%	
	Ripple Noise MAX. ③		70mV	70mV	120mV	200mV	240mV	
	Efficiency (TYP.)	SDN-100B	79%	82%	87%	87%	88%	
		SDN-100C,D	82%	86%	91%	90%	91%	
Output MAX.		82.5W	90W	101W	101W	101W		
PROTECTION	Over Voltage		3.8~4.6V	5.8~7.0V	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 constant current limiting and recover automatically after the fault is removed.					
	Input Voltage	SDN-100B	Under voltage shut down: < 16.0V					
SDN-100C		Under voltage shut down: < 32.0V						
SDN-100D		Under voltage shut down: < 66.0V						
ELEC. CHAR.	Rise time		< 50mS					
ENVIRONMENT	Temperature ④		Operating: -20 ~ 70℃ ; Storage: -40 ~ +85℃ SDN-100B-xx : De-rating: 45 ~ 70℃: 2.5%/℃ ; SDN-100C/D-xx : De-rating: 50 ~ 70℃: 2.5%/℃					
	Humidity		Operating: 20% ~ 90% RH (non condensing); Storage: 10% ~ 95% RH (non condensing)					
SAFETY	Withstand voltage		I/P-O/P:4.0KVDC, I/P-FG:2.5KVDC, O/P-FG:0.7KVDC, 1minute					
	Isolation resistance		I/P-O/P, I/P-FG, O/P-FG > 100MΩ/500VDC at 25℃/ 70% RH					
	Safety standard		IEC 62368-1:2014 (Second Edition) and/or EN 62368-1:2014+A11:2017 for SDN-100D-xx.					
EMC	EMI		EN /BS EN 55032 CLASS B 、 FCC CFR 47 PART 15 CLASS B 、 CNS 13438 CLASS B.					
	EMS		EN /BS EN 55035:2017+A11:2020 EN /BS EN 61000-4-2,3,4,5,6,8 ; ENV 50204					
OTHERS	Cooling		Natural Cooling.					
	M.T.B.F.		238.7K hours					
	Dimension		159 x 95 x 38 mm (L*W*H)					
	Packing		N.W.: 0.426Kg / 1pc(SDN-100B&C) / N.W.: 0.416Kg / 1pc(SDN-100D); 30pcs/ 1.20 CUFT / 1 CTN					
NOTE	① All measurements which not mentioned are based on 24V/48V/96VDC 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 21~36V / 42~72V / 82~144VDC input with 10~50℃ condition and 20MHz of bandwidth by terminated using a 10" ~ 15" twisted pair-wire 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.							
	⑥ The ambient temperature should be de-rating by 5℃/1000m, when operating altitude higher than 2000m (6500 ft)							



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SUNPOWER TECHNOLOGY CORP.

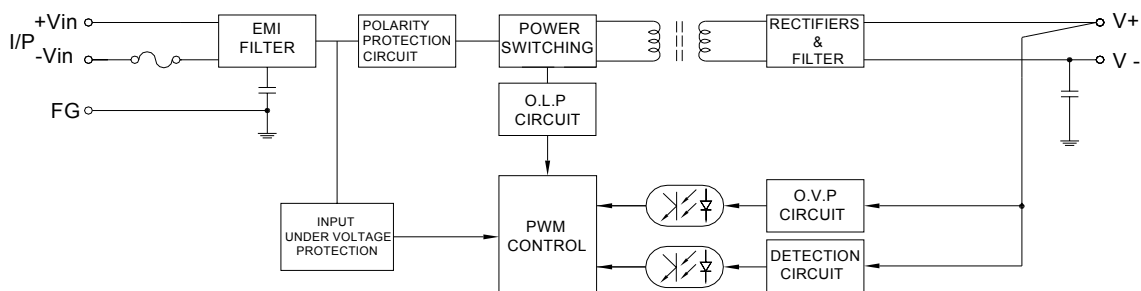
16F-1, No.150, Jian 1st Rd., Zhonghe Dist., New Taipei City 235, Taiwan (R.O.C.)

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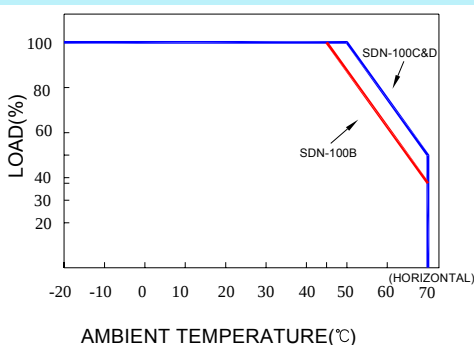
<http://www.sunpower.com.tw>

E-mail: sunpower@sunpower.com.tw

Block Diagram : DS51

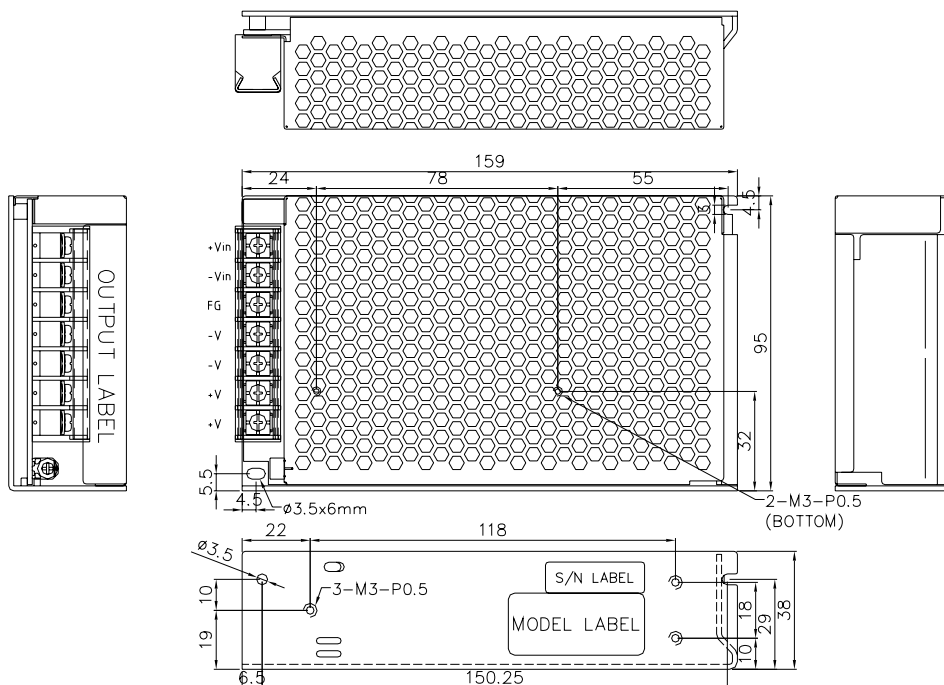


De-rating Curve : E2-4



Dimension:

(Unit: mm)



NOTES:

TERMINAL BLOCK: 7P, PITCH 9.5mm with pc cover

MODEL No.	1	2	3	4	5	6	7
SDN-100B/C/D-xx	+Vin	-Vin	FG	-V	-V	+V	+V