



SUNPOWER TECHNOLOGY CORP.
16F-1, No.150, Jian 1st Rd., Zhonghe Dist., New Taipei City 235, Taiwan (R.O.C.)
TEL: 886-2-8226-3100 FAX: 886-2-8226-3111
<http://www.sunpower.com.tw>
E-mail: sunpower@sunpower.com.tw

SDS-100L-xx Series

100W, Single Output
DC-DC Converter



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



Features:

- * DC Input 9.5V ~ 36V (TYPICAL 24V)
- * Input protection: 15A/250V fuses
- * Inrush current limitation soft start function
- * Input & output isolation
- * Over voltage, over load & short circuit protection
- * Output voltage $\pm 10\%$ adjustment
- * 100% full load burn-in test
- * -20°C to 70°C operating temperature
- * Meet LVD standard
- * 2 years warranty

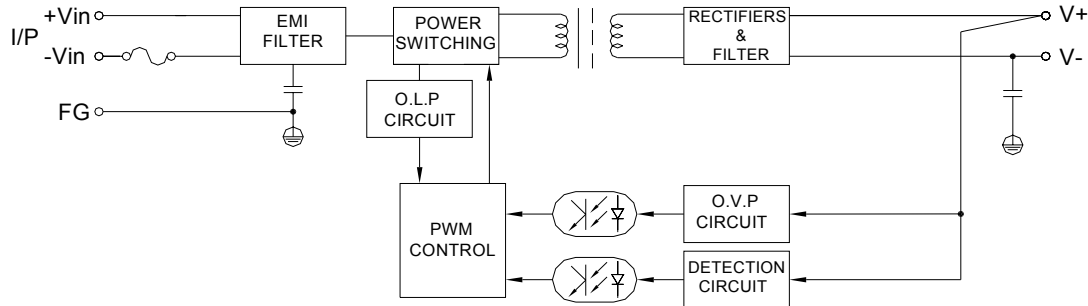
Specification:

INPUT	Voltage	DC 9.5V ~36V (TYPICAL 24V)				
	Current	9A max at 15V DC input, full load condition				
OUTPUT	Voltage	5V	12V	24V	36V	48V
	Min Load	0A	0A	0A	0A	0A
	Max Load	16A	8.4A	4.2A	2.8A	2.1A
	Output Tolerance ②	$\pm 2\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$
	Ripple Noise MAX. ③	70mV	120mV	200mV	240mV	240mV
	Efficiency (TYP)	76%	80%	80%	82%	83%
	Output MAX.	80W	101W	101W	101W	101W
PROTECTION	Over Voltage	5.8~7.0V	13.8~16.8V	27.6~33.6V	41.4~50.4V	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 go into hiccup mode and recover automatically after the fault is removed.				
ELEC. CHAR.	Rise time	<30mS				
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-FG:1.5KVAC, O/P-FG:0.5KVAC, 1minute				
	Isolation resistance	I/P-O/P, I/P-FG, O/P-FG > 100MQ/500VDC at 25°C / 70% RH				
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.	254 K hours				
	Dimension	159 x 95 x 38 mm (L*W*H)				
	Packing	N.W.: 0.69 Kg / 1pc; 30pcs / 1.20 CUFT / 1 CTN				

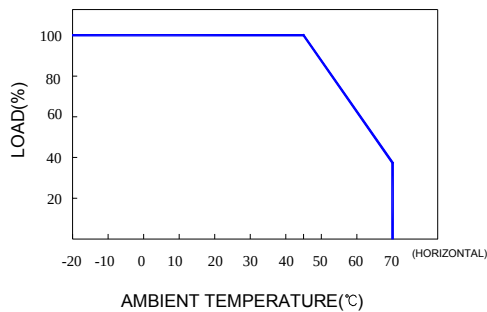
NOTE	① All measurements which not mentioned are based on 24VDC input, output Max at ambient 25°C / 70%RH
	② Output tolerance included set up voltage, line regulation and load regulation.
	③ Ripple & noise are measured at 10~50°C condition and 20MHz of bandwidth by using a 10" ~ 15" twisted pair-wire 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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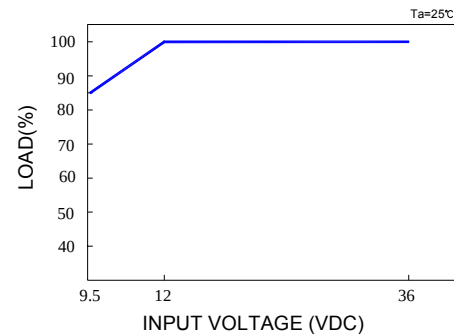
Block Diagram : DS19



De-rating Curve :

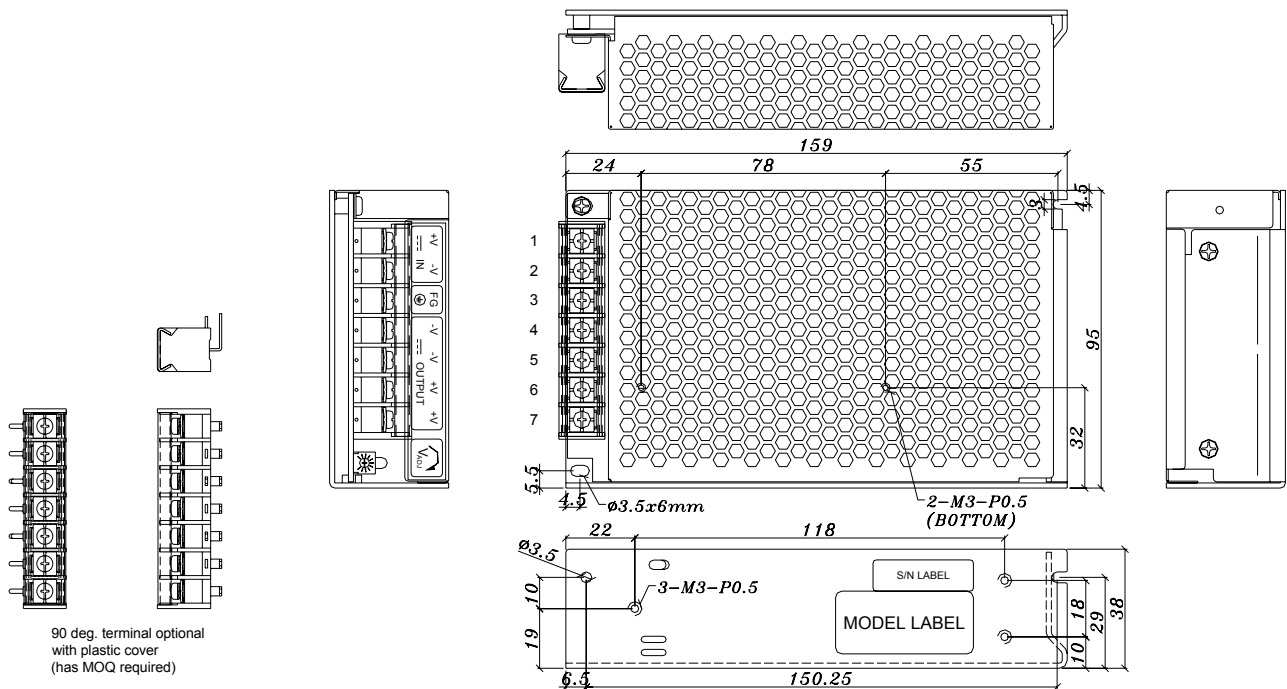


Output De-rating Vs Input Voltage :



Dimension:

(Unit: mm)



NOTES:

TERMINAL BLOCK: 7P, PITCH 9.5mm WITH PC COVER							
MODEL No.	1	2	3	4	5	6	7
SDS-100L-xx	+Vin	-Vin	FG	-V	-V	+V	+V