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SDS-036M-xx Series

36W, Single Output
DC-DC Converter
Green mode function



79 x 50.8 x 28.5 mm
3.11 x 2.0 x 1.12 inch



Features:

- * Green mode design, no load < 0.3W
- * DC Input 19V ~ 72V (TYPICAL 24V & 48V)
- * Input reverse polarity
- * Input & output isolation
- * Inrush current limitation soft start function
- * Altitude during operation up to 13124ft ($\approx$ 4000m)
- * Power ON with LED indicator
- * Over voltage, over load & short circuit protection
- * Output voltage +15%/-3% adjustment
- * Meet LVD standard
- * 3 years warranty

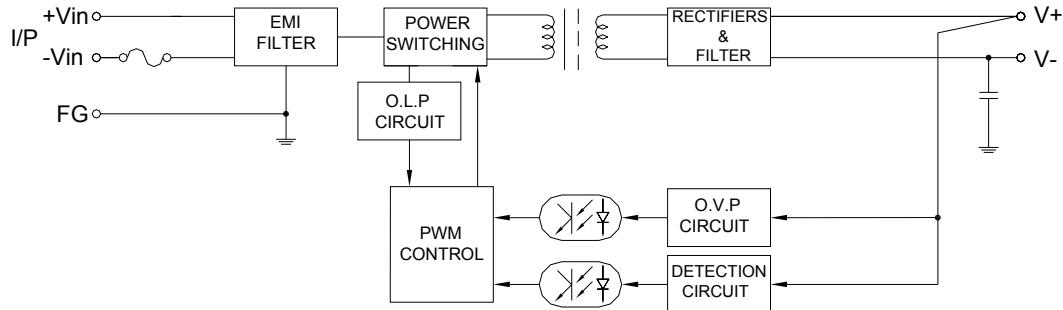
Specification:

INPUT	Voltage	19V ~ 72V DC (TYPICAL 24V & 48V)				
	Current	<2.8A@19 V DC input full load condition(4A/250V fuses)				
	Inrush Current(Typ.)	20A at 48VDC				
OUTPUT	Voltage	3.3V	5V	12V	15V	24V
	Min Load	0A	0A	0A	0A	0A
	Max Load	7A	6A	3A	2.4A	1.5A
	Output Tolerance ②	±2%	±2%	±1%	±1%	±1%
	Ripple Noise MAX. ③	70mV	70mV	120mV	150mV	150mV
	Efficiency (TYP)	80%	80%	83%	83%	84%
	Output MAX.	23W	30W	36W	36W	36W
PROTECTION	Over Voltage	4~4.9V	6~7.5V	14.5~17.3V	18.1~21.6V	29~34.5V
		Shutdown and latch off, recover after re-start up or Auto Recover.				
	Over Load & Short Circuit	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/Set up time	<30mS,300ms				
	Green mode function	Power consumption at no load < 0.3W at 48VDC input				
ENVIRONMENT	Temperature ④	Operating: -20 ~ +70℃ ; De-rating: 45 ~ 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: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				
EMC	EMI	EN 55032 CLASS B 、FCC CFR 47 PART 15 CLASS B 、CNS 13438 CLASS B.				
	EMS	EN 55035:2017+A11:2020 EN 61000-4-2,3,4,5,6,8 ; ENV 50204				
OTHERS	Cooling	Natural cooling				
	M.T.B.F.	431K hours				
	Dimension	79 x 50.8 x 28.5 mm (L*W*H)				
	Packing	N.W.: 0.18 Kg / 1pc; 80pcs/ 1.11 CUFT / 1 CTN				

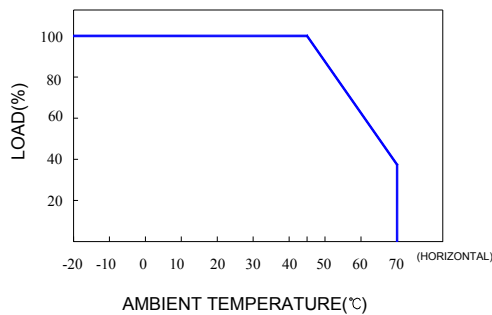
- NOTE
- ① All measurements which not mentioned are based on 24V/48V DC input, output Max at ambient 25℃ / 70%RH
 - ② Output tolerance included set up voltage, line regulation and load regulation.
 - ③ Ripple & noise are measured at 10~45℃ condition and 20MHz of bandwidth by using a 10" ~15" twisted 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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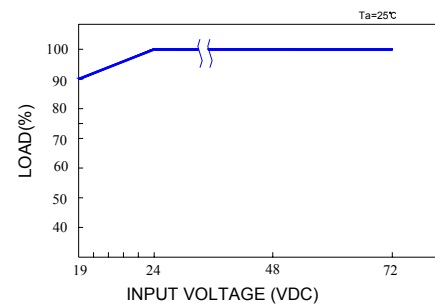
Block Diagram :



De-rating Curve :

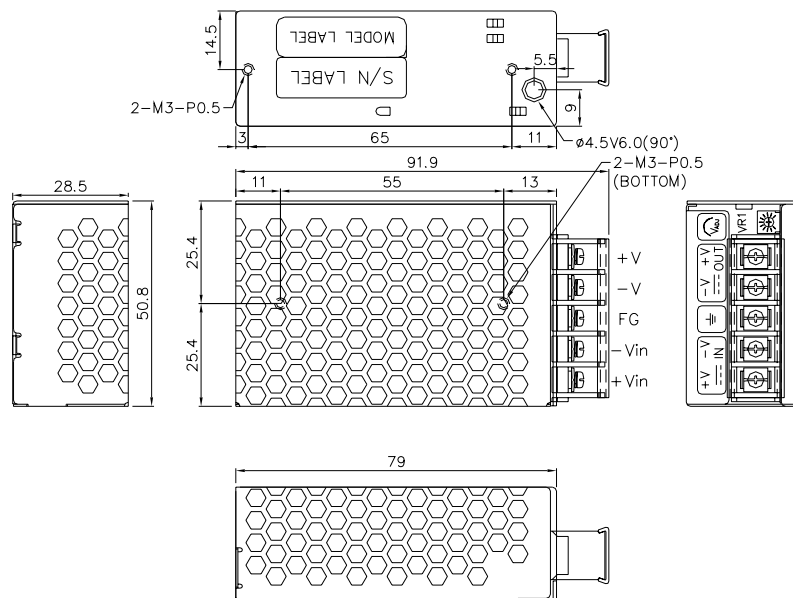


Output De-rating Vs Input Voltage :



Dimension:

(Unit: mm)



NOTES:

MODEL No.	1	2	3	4	5
SDS-036M-xx	+Vin	-Vin	FG	-V	+V