

# SDS-035 Series



99 x 82 x 35 mm  
3.9 x 3.23 x 1.38 inch

**35W, Single Output**  
**12V / 24V / 48V DC INPUT**

## Features:

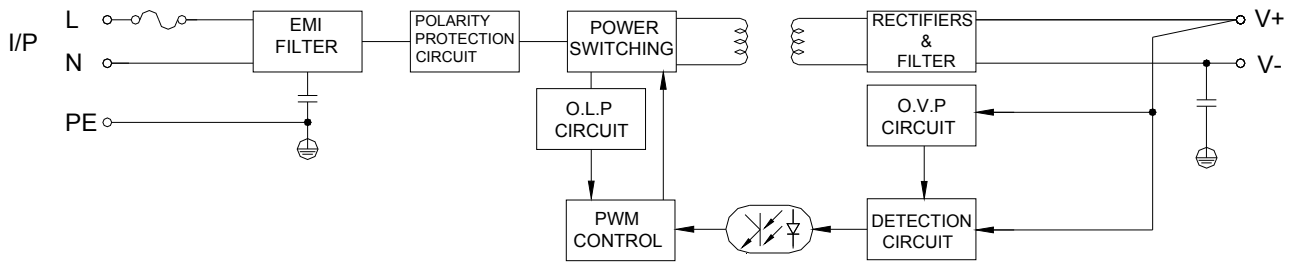
- \* Power ON with LED indicator
- \* 2:1 input range, input and output isolation
- \* Soft start function, low Inrush current
- \* Input polarity reverse protection
- \* Over load, over voltage, short circuit shutdown and Auto recovery
- \* Output voltage  $\pm 10\%$  adjustment
- \* 100% 50°C burn-in test

## Specification:

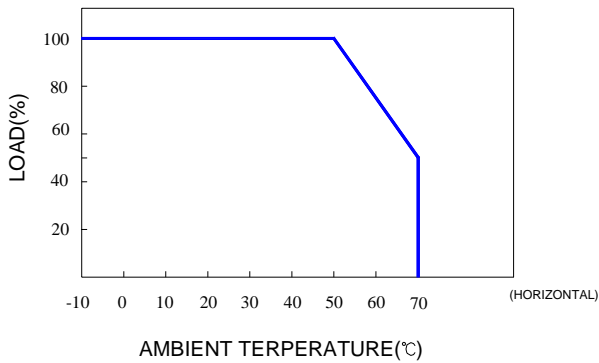
INPUT	Model No.	SDS-035A Series		SDS-035B Series		SDS-035C Series	
		<b>Voltage</b>	9.5 ~ 18V DC (Typical 12V)		18 ~ 36V DC (Typical 24V)		36 ~ 72V DC (Typical 48V)
	<b>Current</b>	<4.8A @ 9.5V DC		<2.6A @ 18V DC		<1.3A @ 36V DC	
OUTPUT	<b>Voltage</b>	<b>3.3V</b>	<b>5V</b>	<b>7.5V</b>	<b>12V</b>	<b>24V</b>	<b>48V</b>
	<b>Min. Load</b>	0A	0A	0A	0A	0A	0A
	<b>Max. Load</b>	8A	7A	4.6A	3A	1.5A	0.75A
	<b>Regulation</b>	$\pm 3\%$	$\pm 2\%$	$\pm 2\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$
	<b>Ripple Noise (MAX.)</b>	40mV	50mV	75mV	100mV	200mV	250mV
	<b>Efficiency (TYP.)</b>	68%	70%	70%	74%	76%	78%
PROTECTION	<b>Over Voltage</b>	3.8~4.6V	5.8~7.0V	8.6~10.5V	13.8~17.5V	27.6~33.6V	55.2~67.2V
	<b>Over Load</b>	Over 105% ~ 180% of rating, recovers automatically after fault condition has been removed.					
	<b>Short Circuit</b>	Shutdown, recovers automatically after fault condition has been removed.					
ELEC. CHAR.	<b>Rise time</b>	<20mS					
ENVIRONMENT	<b>Temperature</b>	Operating: -10 ~ +70°C ; De-rating: 50 ~ 70°C: 2.5%/°C ; Storage: -20~ +85°C					
	<b>Humidity</b>	Operating: 20% ~ 85%; Storage: 10% ~ 95% (non condensing)					
SAFETY & EMC	<b>Safety standard</b>	UL 60950-1, CSA C22.2 No.60950-1, TUV EN 60950-1:2001+A11, IEC 60950-1, EMKO-TSE(74-SEC)207/94 standard.					
	<b>EMI</b>	EN 55022 CLASS B · FCC CFR 47 PART 15 CLASS B · CNS 13438 CLASS B.					
	<b>EMS</b>	EN 55024 : EN 61000-4-2,3,4,5,6,8.					
OTHERS	<b>Cooling</b>	Natural cooling					
	<b>M.T.B.F.</b>	417K hours					
	<b>Packing</b>	N.W.:0.39Kg / 1pc; 46pcs / 1.22Cu ft <sup>3</sup> / 1 CTN					
NOTE	① All measurements which not mentioned are based on 12V/24V/48VDC input, <b>output Max</b> at ambient 25°C / 70%RH ② Output tolerance included set up voltage, line regulation and load regulation. ③ Ripple & noise are measured at 12~18V/21~36V/42~72VDC input with 10~50°C 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.						

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## Block Diagram : DS1

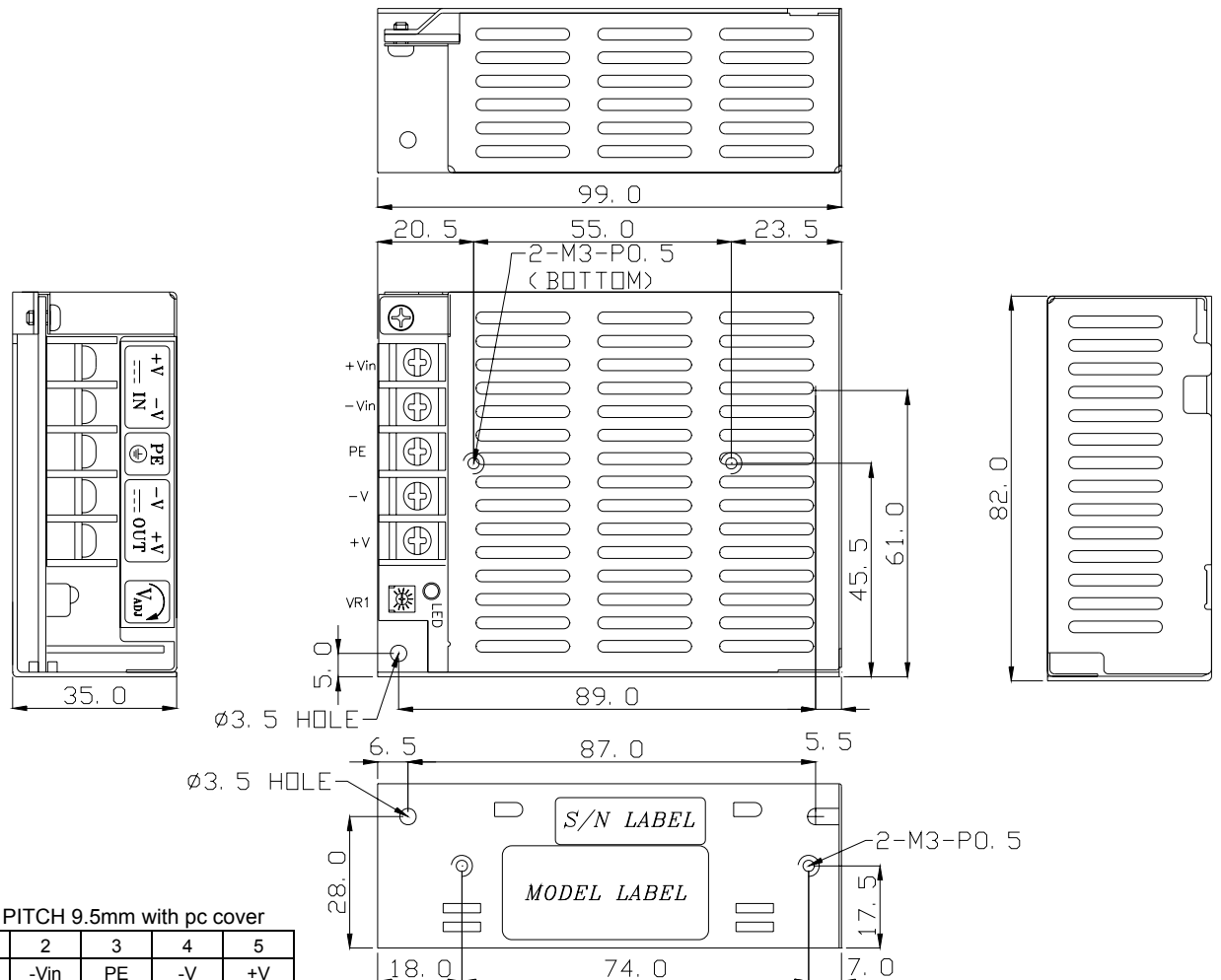


## Derating Curve :



## Dimension:

(Unit: mm)



### NOTES:

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

MODEL No.	1	2	3	4	5
SDS-035A/B/Cxx	+Vin	-Vin	PE	-V	+V