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# SDS-035A/B/Cxx Series

35W, Single Output

12V / 24V / 48V DC Input



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



## Features:

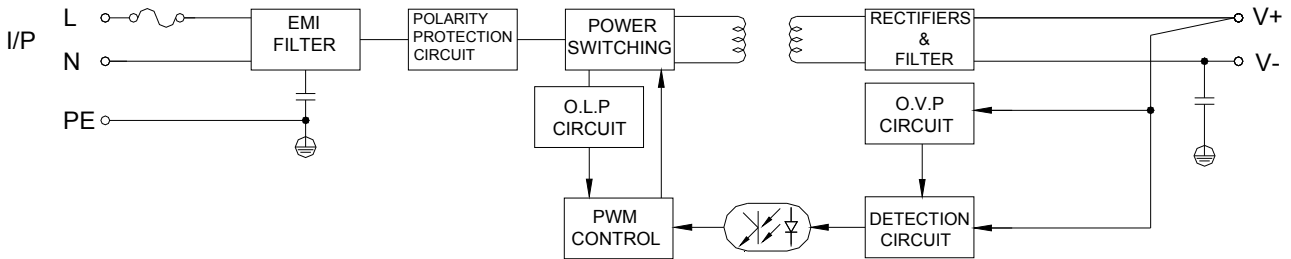
- \* Power ON with LED indicator
- \* Input and output isolation
- \* Soft start function, low inrush current
- \* Non min. load requirement
- \* Input polarity reverse protection
- \* Over voltage, over load & short circuit protection
- \* Output voltage  $\pm 10\%$  adjustment
- \* 100% full load burn-in test
- \* Meet LVD standard
- \* 2 years warranty

## Specification:

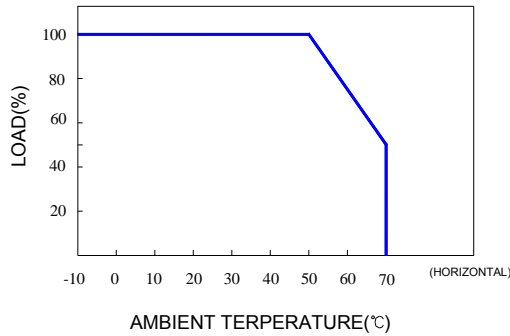
INPUT	Model No.	SDS-035Axx Series		SDS-035Bxx Series		SDS-035Cxx Series		
		<b>Voltage</b>	9.5 ~ 18V DC (Typical 12V)		18 ~ 36V DC (Typical 24V)		36 ~ 72V DC (Typical 48V)	
	<b>Current</b>	<5.8A @ 9.5V DC		<3A @ 18V DC		<1.5A @ 36V DC		
	<b>Protection</b>	Fuse , 6.3A/250V		Fuse , 4A/250V		Fuse , 2A/250V		
OUTPUT	<b>Voltage</b>	3.3V	5V	7.5V	12V	24V	48V	
	<b>Min Load</b>	0A	0A	0A	0A	0A	0A	
	<b>Max Load</b>	8A	7A	4.7A	3A	1.5A	0.75A	
	<b>Output Tolerance</b> ②	$\pm 3\%$	$\pm 2\%$	$\pm 2\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	
	<b>Ripple Noise MAX.</b> ③	70mV	70mV	100mV	120mV	200mV	250mV	
	<b>Efficiency (TYP.)</b>	<b>SDS-035A</b>	66%	70%	71%	74%	76%	78%
		<b>SDS-035B</b>	68%	72%	73%	76%	78%	80%
<b>SDS-035C</b>		69%	74%	75%	78%	80%	82%	
	<b>Output MAX.</b>	26W	35W	35W	36W	36W	36W	
PROTECTION	<b>Over Voltage</b>	3.8~4.6V	5.8~7.0V	8.6~10.5V	13.8~16.8V	27.6~33.6V	55.2~67.2V	
		Hiccup and recovers automatically after the fault is removed.						
	<b>OverLoad &amp; Short Circuit</b>	When power supply over 105%~ 180% max load or short circuit acted, power supply will go into hiccup mode and recover automatically after the fault is removed.						
ELEC. CHAR.	<b>Rise time</b>	<20mS						
ENVIRONMENT	<b>Temperature</b> ④	Operating: -10 ~ +70°C ; De-rating: 50 ~ 70°C : 2.5%/°C ; Storage: -20 ~ +85°C						
	<b>Humidity</b>	Operating: 20% ~ 90% RH (non condensing); Storage: 10% ~ 95% RH (non condensing)						
SAFETY	<b>Withstand voltage</b>	I/P-O/P:2.0KVAC, I/P-PE:1.5KVAC, 1minute						
	<b>Isolation resistance</b>	I/P-O/P, I/P-PE, > 100MΩ/500VDC at 25°C/ 70% RH						
EMC	<b>EMI</b>	EN 55022 CLASS B · FCC CFR 47 PART 15 CLASS B · CNS 13438 CLASS B.						
	<b>EMS</b>	EN 55024 : EN 61000-4-2,3,4,6,8 ; ENV 50204						
OTHERS	<b>Cooling</b>	Natural Cooling.						
	<b>M.T.B.F.</b>	417K hours						
	<b>Dimension</b>	99 x 82 x 35 mm (L*W*H)						
	<b>Packing</b>	N.W.:0.36Kg / 1pc; 46pcs / 1.22 CUFT / 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

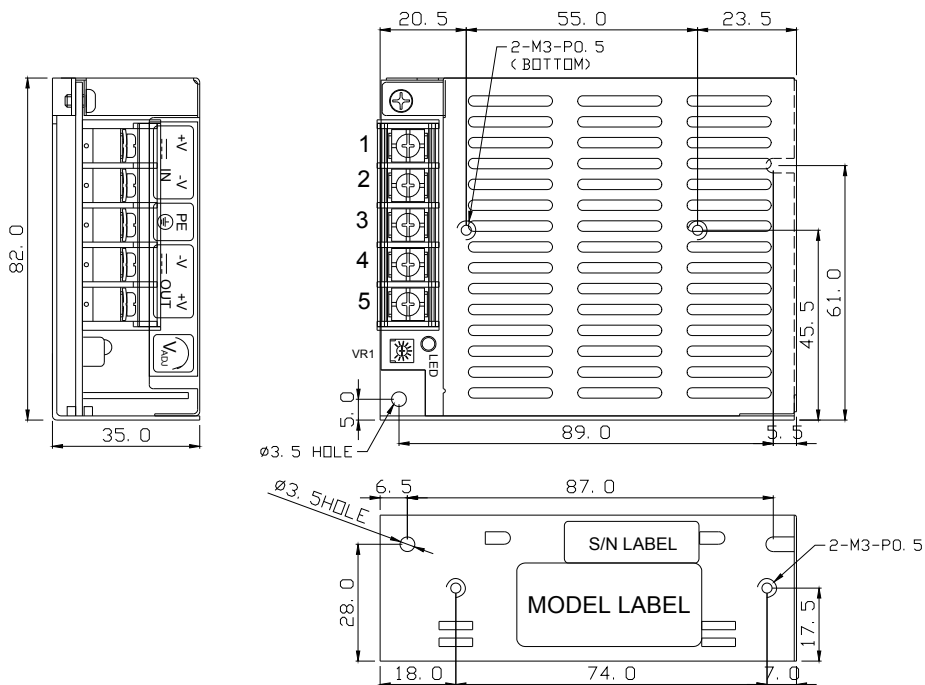


## De-rating Curve :



## 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