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# SPS-375-xx Series

375W, Single Output



212 x 115 x 50 mm  
 8.35 x 4.53 x 1.97 inch



## Features:

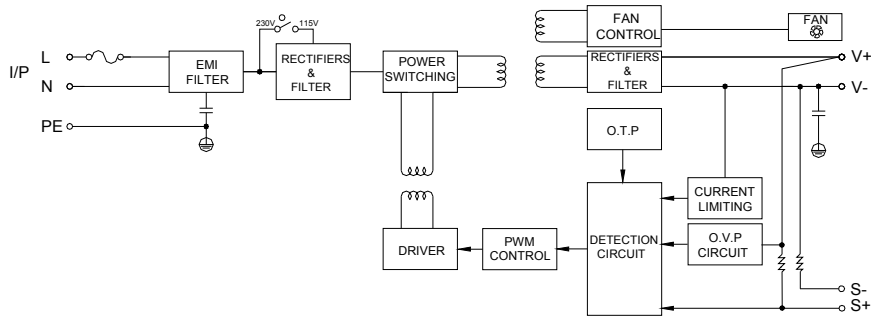
- \* Power ON with LED indicator
- \* Built-in EMI filter, low ripple noise
- \* Over voltage protection
- \* Over load & short circuit, over temperature protection
- \* Output voltage  $\pm 10\%$  adjustment
- \* Output voltage remote sense
- \* Cooling fan auto sensing ON/OFF
- \* 100% full load burn-in test
- \* Meet UL, cUL, TUV, CE standard, CB, approved
- \* 1 year warranty

## Specification:

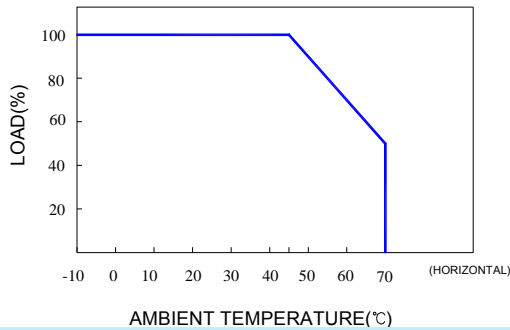
INPUT	<b>Voltage</b> ②	AC 90V ~ 132V or 176V ~ 264V selected by SW · DC 250V ~ 375V.							
	<b>Frequency</b>	47 ---- 63 Hz							
	<b>Current</b>	<7.3A @ 115V , <4.2A @ 230V AC input, full load condition							
	<b>Inrush Current</b>	<35A@115V , <70A@230V AC input, Cold start at 25°C ambient							
	<b>Leakage Current</b>	<1.5mA@264V AC input							
OUTPUT	<b>MODEL No.</b>	SPS-375-05	SPS-375-7.5	SPS-375-12	SPS-375-15	SPS-375-24	SPS-375-30	SPS-375-36	SPS-375-48
	<b>Voltage</b>	5V	7.5V	12V	15V	24V	30V	36V	48V
	<b>Min Load</b>	0A	0A	0A	0A	0A	0A	0A	0A
	<b>Max Load</b>	60A	45A	31A	25A	15.6A	12.5A	10.5A	7.9A
	<b>Output Tolerance</b> ③	$\pm 2\%$	$\pm 2\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$
	<b>Ripple Noise MAX.</b> ④	100mV	100mV	120mV	150mV	200mV	200mV	240mV	250mV
	<b>Efficiency (TYP.)</b>	74%	76%	79%	80%	82%	82%	83%	83%
PROTECTION	<b>Output MAX.</b>	300W	338W	372W	375W	374W	375W	378W	379W
	<b>Over Voltage</b>	5.8V~7.0V	8.6V~10.5V	13.8V~16.8V	17.3V~21.0V	27.6V~33.6V	34.5V~42V	41.4V~50.4V	55.2V~67.2V
	<b>Over Load &amp; Short Circuit</b>	Shutdown and latch off, recover after re-start up. When power supply over 105%~ 150% max load or short circuit acted, power supply will be shutdown and auto recovery when fault condition been removed.							
ELEC. CHAR.	<b>Over Temperature</b>	Over 95°C $\pm 5^\circ\text{C}$ Shutdown, recovers automatically after fault condition has been removed.							
	<b>Rise time</b>	<50mS							
	<b>Hold up time</b>	>20mS@230V, full load condition							
	<b>Setup time</b>	<1.5 S@115V , <1.0 S@230V							
ENVIRONMENT	<b>Remote sensing</b>	(RS+, RS-).							
	<b>Temperature</b> ⑤	Operating: -10 ~ +70°C ; De-rating: 45 ~ 70°C: 2.0%/°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:3KVAC, I/P-PE:1.5KVAC, O/P-PE:0.5KVDC, 1minute							
	<b>Isolation resistance</b>	I/P-O/P, I/P-PE, O/P-PE > 100M $\Omega$ /500VDC at 25°C / 70% RH							
	<b>Safety standard</b>	UL 60950-1 2 <sup>nd</sup> , CSA C22.2 No. 60950-1-07 2 <sup>nd</sup> , TUV EN 60950-1:2006+A11, standard IEC 60950-1:2005, approved							
EMC	<b>EMI</b>	Reference EN 55022 CLASS B, FCC CFR 47 PART 15 CLASS B, CNS 13438 CLASS B. Compliance to EN61000-3-2 CLASS A, EN61000-3-3							
	<b>EMS</b>	EN 55024 : EN 61000-4-2,3,4,5,6,8,11							
OTHERS	<b>Cooling</b>	Forced airflow cooling with DC fan, the fan will be active when internal temperature reach 40°C $\pm 5^\circ\text{C}$							
	<b>M.T.B.F.</b>	212 K hours							
	<b>Dimension</b>	212 x 115 x 50 mm (L*W*H)							
	<b>Packing</b>	N.W.: 0.98 Kg / 1pc; 15pcs / 1.44 CUFT / 1 CTN							
NOTE	① All measurements which not mentioned are based on 230VAC input, <b>output Max</b> at ambient 25°C / 70%RH ② If the input voltage is DC 250~375V, <b>the AC slide switch must stay at 230V range.</b> ③ Output tolerance included set up voltage, line regulation and load regulation. ④ Ripple & noise are measured at 115/230VAC input with 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. ⑤ The operating temperature shall follow the de-rating curve in spec The output load may be requested for decreasing as de-rating curve in spec when low input voltage is under 100/200VAC.. ⑥ The power supply is considered a component of end-equipment. The end-equipment must be re-confirmed whether comply with EMC directives.								

# SPS-375-xx Series

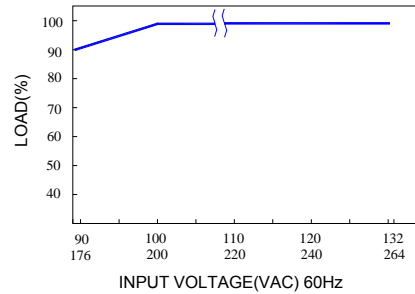
## Block Diagram : SS9



### De-rating Curve :

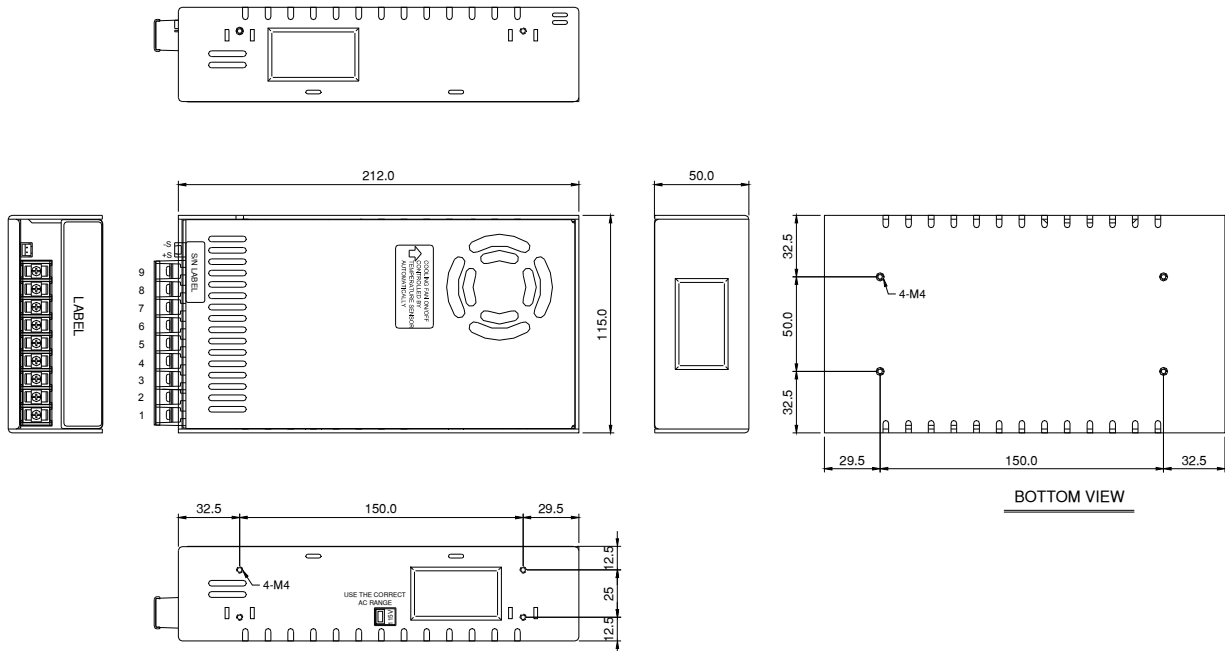


### Output De-rating Vs Input Voltage :



### Dimension:

(Unit: mm)



### NOTES:

TERMINAL BLOCK: 9P, PITCH 9.5mm WITH PC COVER.

MODEL No.	1	2	3	4	5	6	7	8	9
SPS-375-xx	L	N	PE	-V	-V	-V	+V	+V	+V