

Country of Origin: Taiwan  
 Operating Temperature: -25 °C to 70 °C  
 Dimensions: 99 x 82 x 35 mm  
 Approvals / Marks:



### Features:

- \* Light weight, compact size
- \* Green mode design, no load <0.75W
- \* Power ON with LED indicator
- \* Built-in EMI filter, low ripple noise
- \* Over voltage protection
- \* Over load & short circuit protection
- \* Output voltage  $\pm 10\%$  adjustment
- \* 100% full load burn-in test
- \* -25°C~70°C Operating temperature
- \* UL, cUL, TUV, CB, CE approved (SPS-S060-48 CE only)
- \* 1 year warranty

### Specification:

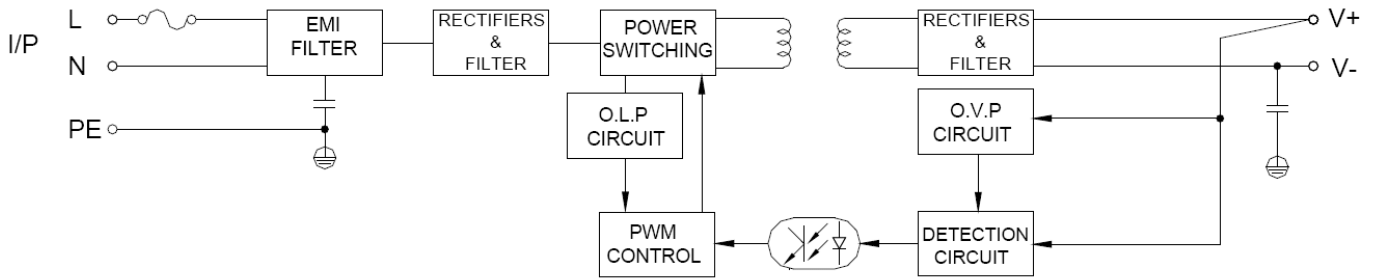
INPUT	Voltage	85V ~ 264VAC universal full range or 120V ~ 375VDC					
	Frequency	47 ----- 63 Hz					
	Current	<1.8A@100V AC input, full load condition					
	Inrush Current	<30A@115V , <60A@230V AC input, Cold start at 25°C ambient					
	Leakage Current	<1.5mA@264V AC input					
OUTPUT	MODEL No.	SPS-S060-05	SPS-S060-7.5	SPS-S060-12	SPS-S060-15	SPS-S060-24	SPS-S060-48
	Voltage	5V	7.5V	12V	15V	24V	48V
	Min Load	0A	0A	0A	0A	0A	0A
	Max Load	10A	6.7A	5A	4A	2.5A	1.25A
	Output Tolerance ②	$\pm 2\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$
	Ripple Noise MAX. ③	70mV	80mV	120mV	150mV	200mV	250mV
	Efficiency (TYP.)	76%	78%	83%	83%	84%	85%
Output MAX.	50W	50W	60W	60W	60W	60W	
PROTECTION	Over Voltage	5.8~7.0V	8.6~10.5V	13.8~16.8V	17.3~21.0V	27.6~33.6V	55.2~67.2V
	Over Load & Short Circuit	Limiting voltage latch 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	<20mS					
	Hold up time	>16.7mS@115V , >60mS@230V					
	Setup time	<800mS@115V , <300mS@230V,					
ENVIRONMENT	Green mode function	Power consumption at no load < 0.75W at 240VAC input					
	Temperature ④	Operating: -25 ~ 70°C ; De-rating: 40 ~ 70°C: 2.5%/°C ; Storage: -40 ~ 85°C					
SAFETY	Humidity	Operating: 20% ~ 90% RH (non condensing) ; Storage: 10% ~ 95% RH (non condensing)					
	Withstand voltage	I/P-O/P:3KVAC, I/P-PE:1.5KVAC, O/P-PE:0.5KVAC, 1minute					
	Isolation resistance	I/P-O/P, I/P-PE, O/P-PE > 100MΩ/500VDC at 25°C/ 70% RH					
EMC	Safety standard	UL 60950-1 1 <sup>st</sup> , CSA C22.2 No. 60950-1- 03 1 <sup>st</sup> , TUV EN 60950-1:2001+A11, IEC 60950-1, approved (SPS-S060-48 only meet standard)					
	EMI	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					
OTHERS	EMS	EN 55024 : EN 61000-4-2,3,4,5,6,8,11					
	Cooling	Natural cooling.					
	M.T.B.F.	435K hours					
	Dimension	99 x 82 x 35 mm (L*W*H)					
NOTE	Packing	N.W.: 0.39Kg / 1pc; 46pcs/ 1.22 CUFT / 1 CTN					
	①	All measurements which not mentioned are based on 230VAC 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 100~254VAC input with 0~50°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 The output load may be requested for decreasing as de-rating curve in spec when low input voltage is under 100VAC					
⑤	The power supply is considered a component of end-equipment. The end-equipment must be re-confirmed whether comply with EMC directives.						

# SPS-S060

# Single

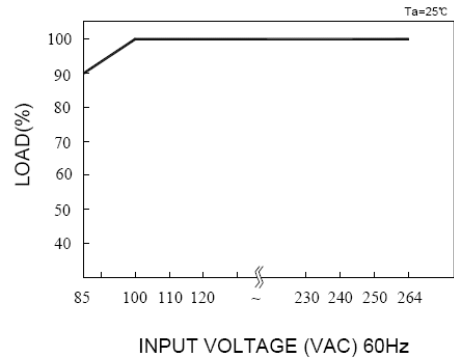
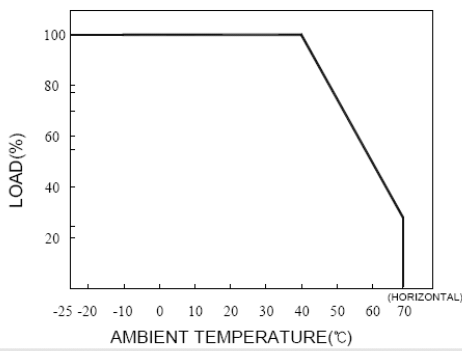
# 50 ~ 60 W

### Block Diagram : US1



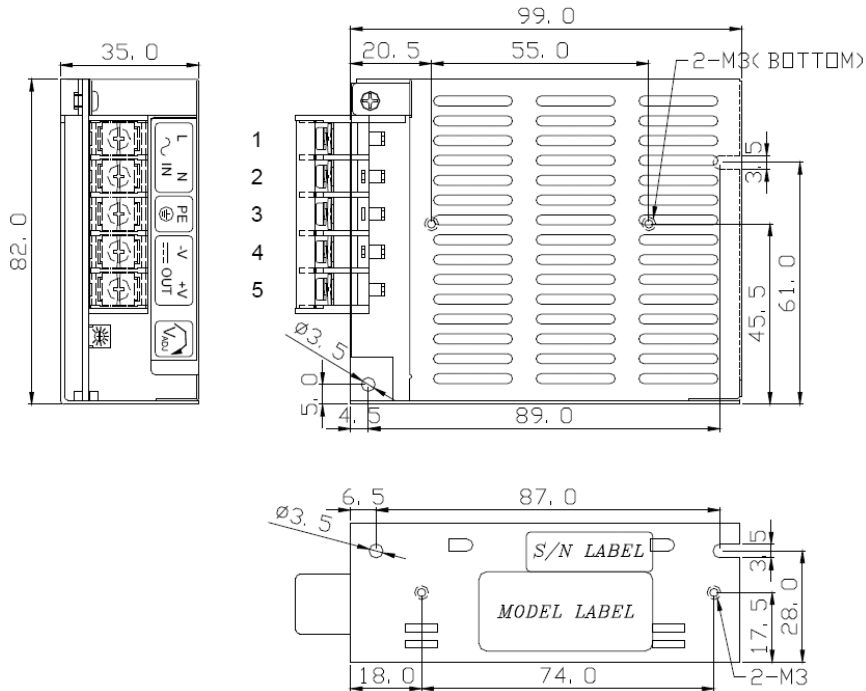
### De-rating Curve :

### Output De-rating Vs Input Voltage :



### Dimension:

(Unit: mm)



### NOTES:

Terminal Pin. No Assignment: 5P, 9.5mm with plastic cover

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DC OUTPUT -V
2	AC/N	5	DC OUTPUT +V
3	PE		