

# SPS-070 Series

# SPS-070P Series

**72 W, Single Output**  
**P.F.C Function Optional**



159 x 95 x 38 mm  
 6.26 x 3.74 x 1.50 inch



### Features:

- \* Green-mode designing, No load <0.75W
- \* High reliability and high efficiency
- \* Power ON with LED indicator
- \* Over load, over voltage protection
- \* Short circuit shutdown and auto recovery
- \* Output voltage  $\pm 10\%$  adjustment
- \* 100% full load burn-in test
- \*  $-20^{\circ}\text{C}$  to  $70^{\circ}\text{C}$  operating temperature

### Specification:

INPUT	Voltage	85V ~ 264VAC or 120V ~ 375VDC Universal full range.						
	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-070-3.3 SPS-070P-3.3	SPS-070-05 SPS-070P-05	SPS-070-12 SPS-070P-12	SPS-070-15 SPS-070P-15	SPS-070-24 SPS-070P-24	SPS-070-48 SPS-070P-48	
	Voltage	3.3V	5V	12V	15V	24V	48V	
	Min. Load	0A	0A	0A	0A	0A	0A	
	Max. Load	15A	12A	6A	4.8A	3A	1.5A	
	Regulation	$\pm 3\%$	$\pm 2\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	
	Ripple Noise (MAX.) ②	50mV	50mV	120mV	150mV	150mV	150mV	
	Efficiency (TYP.) ①	73%	76%	81%	82%	84%	86%	
	Output (MAX)	50W	60W	72W	72W	72W	72W	
PROTECTION	Over Voltage	3.8~4.6V	5.8~7.0V	13.8~16.8V	17.3~21.0V	27.6~33.6V	55.2~67.2V	
	Over Load	Over 105%~ 150% of rating, shutdown and recovers automatically after fault condition has been removed.						
	Short Circuit	Shutdown, recovers automatically after fault condition has been removed.						
ELEC. CHAR.	Rise time	<20mS						
	Hold up time	>60mS@230V, full load condition						
	Setup time	<3 Sec@115V AC, 1 Sec@230V AC						
	Green mode function	Power consumption at No load < 0.75W						
ENVIRONMENT	Temperature	Operating: $-20 \sim 70^{\circ}\text{C}$ ; De-rating: $45 \sim 70^{\circ}\text{C}$ : $2.0\%/^{\circ}\text{C}$ ; Storage: $-40 \sim +85^{\circ}\text{C}$						
	Humidity	Operating: 20% ~ 85%; Storage: 10% ~ 95% (non condensing)						
SAFETY & EMC	Safety standard	UL 60950-1, CSA C22.2 No.60950-1,TUV EN 60950-1,IEC 60950-1,EMKO-TSE (74-SEC) 207/94 approved.						
	EMI	EN 55022 CLASS B : EN 61000-3-2,3 , FCC CFR 47 PART 15 CLASS B, CNS 13438 CALSS B. (EN61000-3-2,3 only for SPS-070P Ser. )						
	EMS	EN 55024 : EN 61000-4-2,3,4,5,6,8,11						
OTHERS	Withstand voltage	I/P-O/P:3KVAC, I/P-PE:1.5KVAC, O/P-PE:0.5KVDC, 1minute						
	Cooling	Natural Cooling.						
	M.T.B.F.	300K hours at 25°C						
	Terminal pitch	7P / 9.5mm with plastic cover, 90 deg terminal optional (with MOQ)						
	Packing	N.W.:0.6Kg / 1pc; 30pcs / 1.20 Cu ft <sup>3</sup> / 1 CTN						

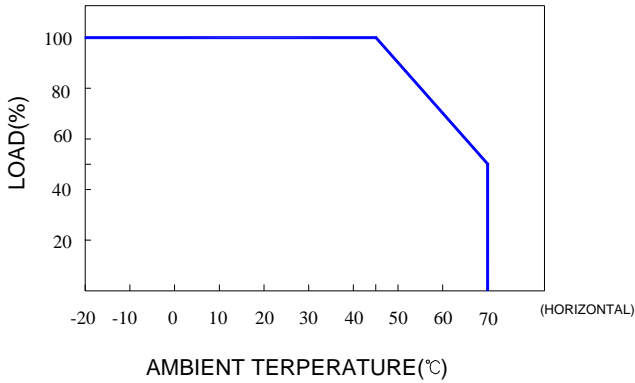
NOTE: ① Efficiency are measured at 230V AC input / 25°C.

② Ripple & noise are measured at 20MHz of bandwidth with parallel a 0.1uF capacitors. Measure condition at 95~252VAC input / 0~50°C

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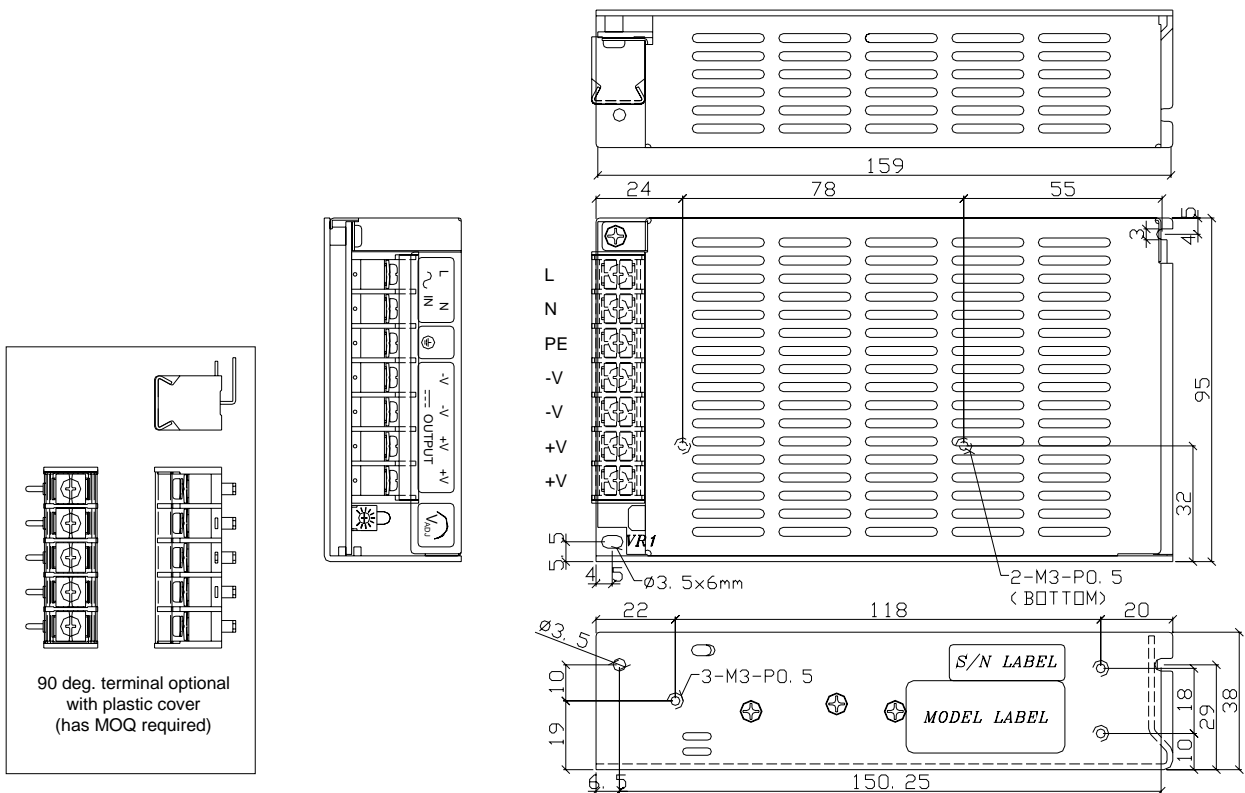
# SPS-070P Series

## Derating Curve :



## Dimension:

(Unit: mm)



## NOTES:

TERMINAL BLOCK: 7P, PITCH 9.5mm WITH PC COVER.

Sunpower (UK) Ltd

Orion House, Calleva Park, Aldermaston, Berkshire, RG7 8SN

Tel: +44 (0)118 981 1001 Fax: +44 (0)118 981 2002 E-mail: sales@sunpower-uk.com