



SUNPOWER TECHNOLOGY CORP.
16F-1, No.150, Jian 1st Rd., Zhonghe Dist., New Taipei City 235, Taiwan (R.O.C.).
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SPS-070 -xx Series

SPS-070P-xx Series

Single Output
P.F.C Function Optional



159 x 95 x 38 mm
6.26 x 3.74 x 1.50 inch
UL US CB CE

Features:

- * Green-mode design, no load < 0.75W
- * High reliability and high efficiency
- * Power ON with LED indicator
- * Over voltage protection
- * Over load & short circuit protection
- * Output voltage $\pm 10\%$ adjustment
- * 100% full load burn-in test
- * UL, cUL, CB, CE approved
- * 3 years 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 (TYP.)	30A@115V, 60A@230V AC input. Cold start at 25°C ambient					
	Leakage Current	<1.0mA@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
	Output Tolerance ②	$\pm 3\%$	$\pm 2\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$
	Ripple Noise MAX. ③	70mV	70mV	120mV	150mV	200mV	250mV
	Efficiency (TYP.)	74%	77%	83%	84%	85%	87%
	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 & Short Circuit	Shutdown and latch off, recover after re-start up. 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	<1 Sec@100 ~ 240V AC					
	Green mode function	Power consumption at no load < 0.75W					
ENVIRONMENT	Temperature ④	Operating: -20 ~ 70°C ; De-rating: 45 ~ 70°C : 2.5%/°C ; Storage: -40 ~ +85°C					
	Humidity	Operating: 20% ~ 90%; Storage: 10% ~ 95% (non condensing)					
	Altitude	6562 ft ($\approx$ 2000 m) operating					
SAFETY	Withstand voltage	I/P-O/P:3KVAC, I/P-FG:1.5KVAC, O/P-FG:0.5KVAC, 1minute					
	Isolation resistance	I/P-O/P, I/P-FG, O/P-FG > 100MQ/500VDC at 25°C / 70% RH					
	Safety standard	UL 60950-1 2 nd , CSA C22.2 No. 60950-1- 07 2 nd , IEC 60950-1:2005+A1+A2, approved					
EMC	EMI	EN 55032 CLASS B 、 FCC CFR 47 PART 15 CLASS B Compliance to EN61000-3-2 CLASS A, EN61000-3-3, SPS-070P-xx models are built-in PFC choke to lower 25% THD (Total Harmonic Distortion) performance,					
	EMS	EN 55024 : EN 61000-4-2,3,4,5,6,8,11					
OTHERS	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 CUFT / 1 CTN					
NOTE		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 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.					
		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.					

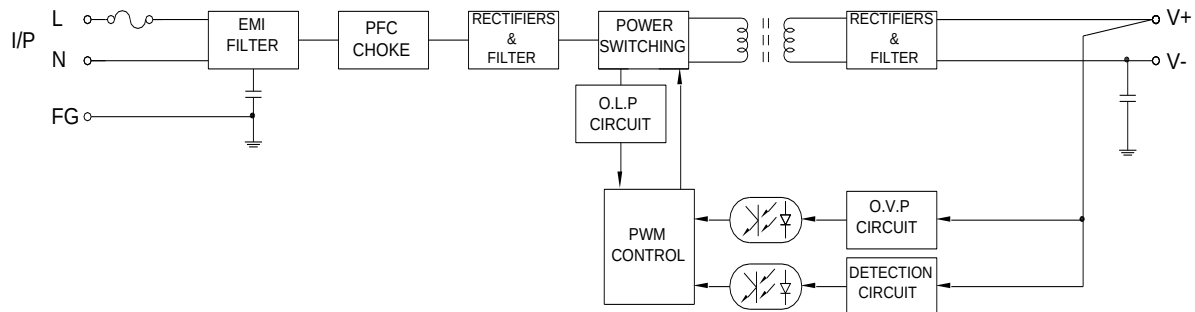


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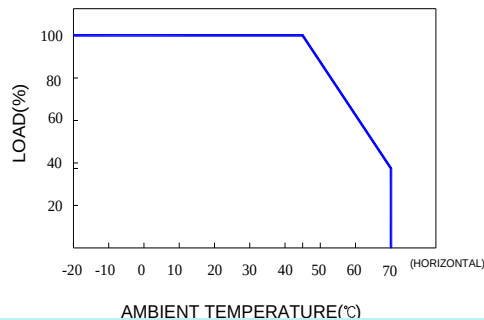
SPS-070P-xx Series

Block Diagram : US3-1

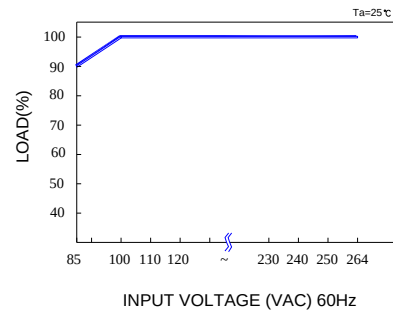


SPS-070 -xx series without PFC choke

De-rating Curve :

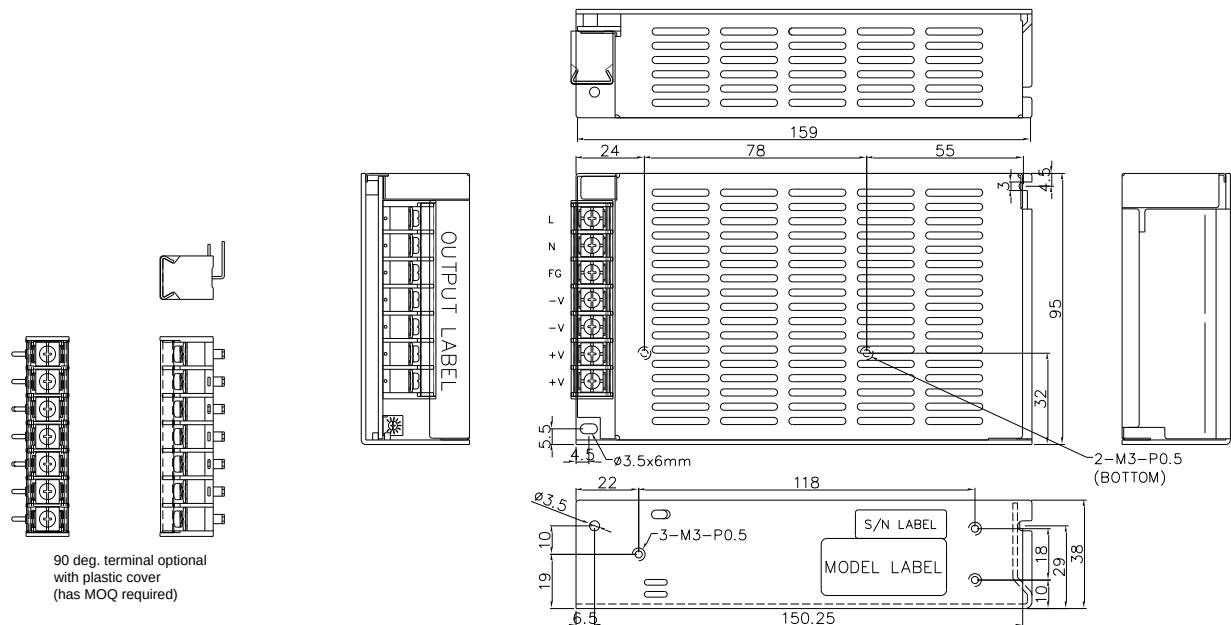


Output De-rating Vs Input Voltage :



Dimension:

(Unit: mm)



NOTES:

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

MODEL No.	1	2	3	4	5	6	7
SPS-070(P) -xx	L	N	FG	-V	-V	+V	+V