



SUNPOWER TECHNOLOGY CORP.  
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# SPS-1000P Series

1000W, Single Output  
 Active P.F.C Function



295 x 127 x 40.6 mm  
 11.61 x 5.0 x 1.6 inch



## Features:

- \* Universal AC input with active power factor correction, P.F.>0.95
- \* Built-in in EMI filter, low ripple noise
- \* Inrush current limit soft start function
- \* Short circuit, Over load, Over voltage, over temperature protection
- \* Output voltage  $\pm 10\%$  adjustment
- \* Power Good Signal
- \* Cooling FAN auto sensing ON/OFF
- \* Output voltage remote sense
- \* Remote Control ON/OFF
- \* Non min. load requirement
- \* 100% 50°C burn-in test
- \* UL, cUL, TUV, CB, CE standard
- \* 2 years warranty

## Specification:

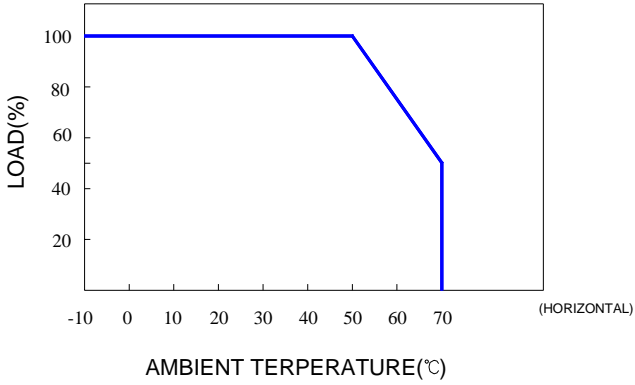
INPUT	<b>Voltage</b>	90V ~ 264VAC Universal full range			
	<b>Frequency</b>	47 ----- 63 Hz			
	<b>Current</b>	<13A@100V AC input, full load condition			
	<b>Inrush Current</b>	<30A@115V , <50A@230V AC input, Cold start at 25°C ambient			
	<b>Leakage Current</b>	<2.0mA@240V AC input			
OUTPUT	<b>MODEL No.</b>	<b>SPS-1000P-12</b>	<b>SPS-1000P-24</b>	<b>SPS-1000P-36</b>	<b>SPS-1000P-48</b>
	<b>Voltage</b>	12V	24V	36V	48V
	<b>Min. Load</b>	0A	0A	0A	0A
	<b>Max. Load</b>	63A	40A	27.8A	21A
	<b>Regulation</b>	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$
	<b>Ripple Noise (MAX.)</b>	150mV	150mV	180mV	240mV
	<b>Efficiency (TYP.)</b>	82%	87%	87%	88%
<b>Output (MAX)</b>	756W	960W	1000W	1008W	
PROTECTION	<b>Over Voltage</b>	13.8 ~ 17.5V	26.5 ~ 33.6V	42.2 ~ 50.6V	55.2 ~ 72.6V
	<b>Over Load</b>	Over 105% ~ 125% of rating, Shutdown and auto recovery when fault condition been removed.			
	<b>Short Circuit</b>	Shutdown and auto recovery when fault condition been removed.			
	<b>Over Temp.</b>	Over 95°C .the power supply will shutdown			
ELEC. CHAR.	<b>Rise time</b>	<80mS			
	<b>Hold up time</b>	>15mS@230V			
	<b>Remote Control</b>	RC+ / RC- : 0~1V=Power ON, 3.3~5.6V=Power OFF ; Sink Current: 3-10mA. **Close remote ON/OFF function is not used, the connector(CN12) ON/OFF(Pin9) and GND(Pin10) shorting.			
	<b>Remote Sensing</b>	(RS+, RS-).			
	<b>Power Good signal</b>	Power on within 100~500ms, high level TTL signal release.			
ENVIRONMENT	<b>Temperature</b>	Operating: -10 ~ 70 °C ; De-rating: 50 ~ 70°C : 2.5%/°C. Storage: -20~+85°C			
	<b>Humidity</b>	Operating: 20% ~ 85%; Storage: 10% ~ 95% (non condensing)			
SAFETY & EMC	<b>Safety standard</b>	UL 60950-1 <sup>st</sup> , CSA C22.2 No.60950-1 <sup>st</sup> , TUV EN 60950-1 <sup>st</sup> , IEC 60950-1 <sup>st</sup> , EMKO-TSE (74-SEC)207/94 standard.			
	<b>EMI</b>	EN 55022 CLASS B : EN 61000-3-2,3 \ FCC CFR 47 PART 15 CLASS B \ CNS 13438 CLASS B.			
	<b>EMS</b>	EN 55024 : EN 61000-4-2,3,4,5,6,8,11.			
OTHERS	<b>Cooling</b>	Forced airflow cooling with 15.3 CFM * 2 DC Fan. (Ball bearing)			
	<b>M.T.B.F.</b>	35K hours			
	<b>Packing</b>	10pcs/ 1.91Cu ft3 / 1 CTN			



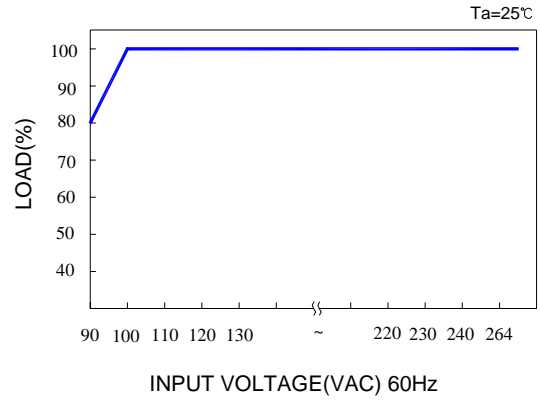
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## Derating Curve :

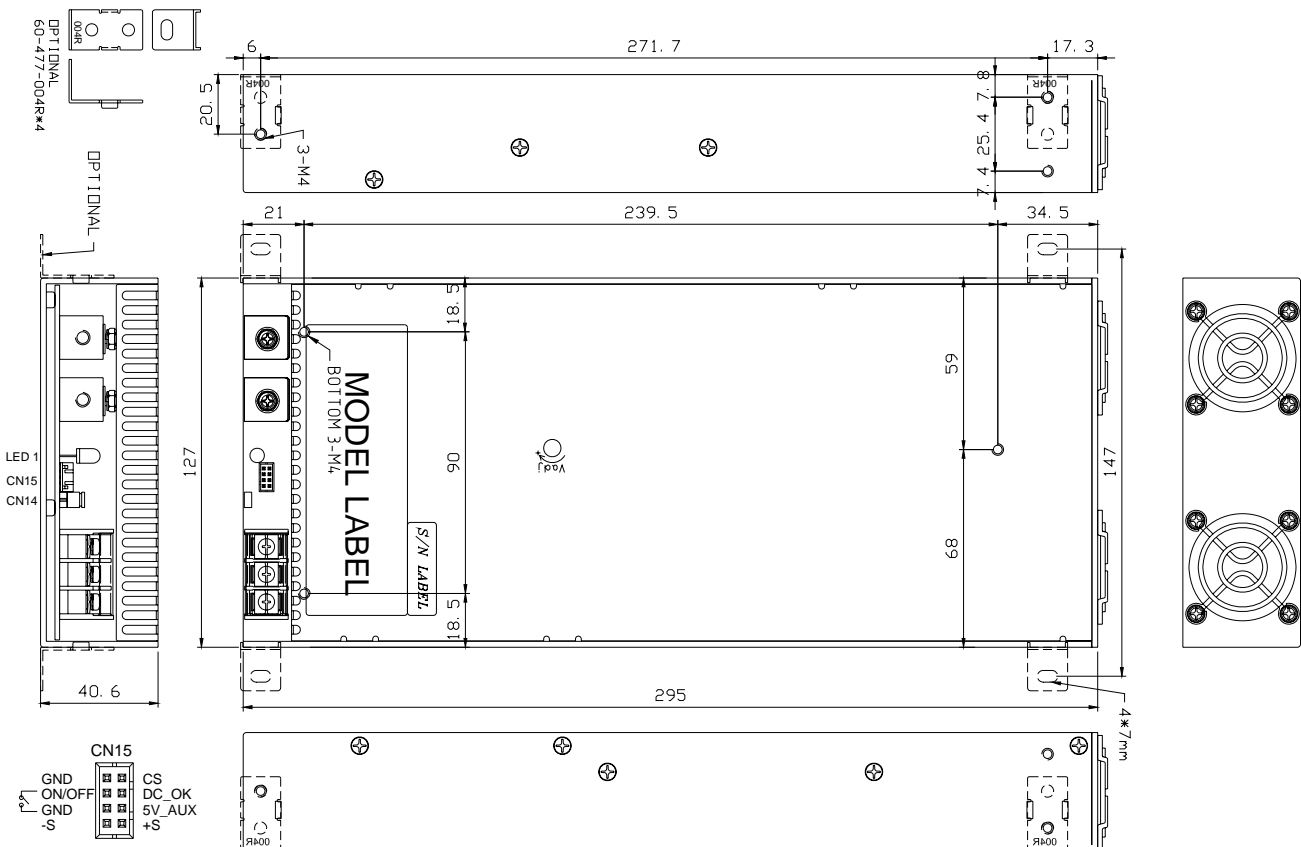


## Output Derating Vs Input Voltage :



## Dimension:

(Unit: mm)



### NOTES:

TERMINAL BLOCK : 3P PITCH 9.5mm WITH PC COVER