



SUNPOWER TECHNOLOGY CORP.
 16F-1, No.150, Jian 1st Rd., Zhonghe Dist., New Taipei City 235, Taiwan (R.O.C.).
 TEL: 886-2-8226-3100 FAX: 886-2-8226-3111
 http://www.sunpower.com.tw
 E-mail: sunpower@sunpower.com.tw

SPD-A60 Series

60W, Single Output Adapter Power Supply



119.5 x 59.5x 36.5 mm
 4.7 x 2.34 x 1.43 inch



Features:

- * High reliability and efficiency
- * Built in EMI filter, low ripple noise
- * Over voltage, over load & short circuit protection
- * With LED indicator
- * Meet EMI EN55022、EMS EN55024、LVD standard
- * 100% full load burn-in test.
- * UL, cUL, TUV, CB, CE standard
- * 1 year warranty

Specification:

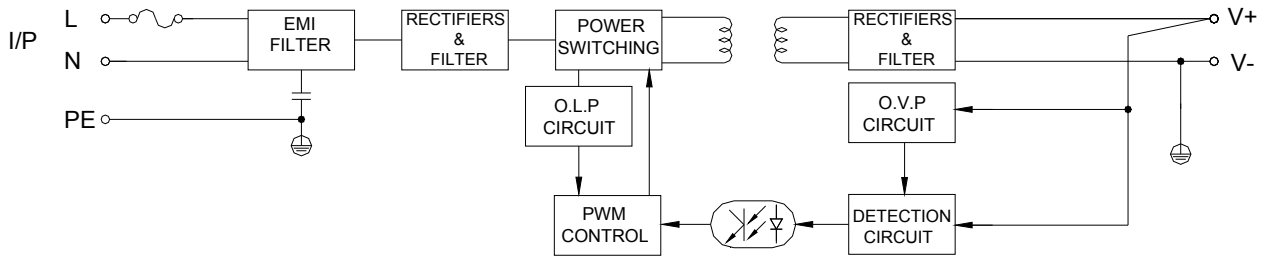
INPUT	Voltage	90V ~ 264VAC universal full range or 127V ~ 375VDC.							
	Frequency	47 ---- 63 Hz							
	Current	<1.4A @100V AC input, full load condition							
	Inrush Current	<30A@115V , <60A@230V AC input. Cold start at 25°C ambient							
	Leakage Current	<1.5mA@264V AC input							
OUTPUT	MODEL	SPD-A60-05	SPD-A60-7.5	SPD-A60-09	SPD-A60-12	SPD-A60-15	SPD-A60-19	SPD-A60-24	SPD-A60-48
	Voltage	5V	7.5V	9V	12V	15V	19V	24V	48V
	Min Load	0A							
	Max Load	8A	6A	5.6A	5A	4A	3.2A	2.5A	1.3A
	Output Tolerance ②	± 5%	± 5%	± 5%	± 3%	± 3%	± 3%	± 3%	± 3%
	Ripple Noise MAX. ③	70mV	80mV	100mV	120mV	150mV	200mV	200mV	240mV
	Efficiency (TYP.)	76%	78%	80%	82%	82%	83%	84%	84%
PROTECTION	Output MAX.	40W	45W	50W	60W	60W	60W	60W	62W
	Over Voltage	5.8~7.0V	8.6~10.5V	10.4~12.6V	13.8~16.8V	17.3~21.0V	21.9~26.6V	27.6~33.6V	55.2~67.2V
ELEC. CHAR.		Hiccup and recovers automatically after the fault is removed.							
	Over Load & Short Circuit	When power supply over 105%~ 180% max load or short circuit acted, power supply will go into hiccup mode and recover automatically after the fault is removed.							
ENVIRONMENT	Rise time	<20mS							
	Hold up time	>20mS@230V, full load condition							
SAFETY	Temperature ④	Operating: -10~55°C; De-rating: 40°C ~55°C : 2.5%/°C.; Storage: -20 ~ +85°C							
	Humidity	Operating: 20% ~ 90% RH (non condensing); Storage: 10% ~ 95% RH (non condensing)							
EMC	Withstand voltage	I/P-O/P:3KVAC, 1minute							
	Isolation resistance	I/P-O/P,> 100MΩ/500VDC at 25°C / 70% RH							
	Safety standard	UL 60950-1 1 st , CSA C22.2 No. 60950-1- 03 1 st , TUV EN 60950-1:2001+A11, IEC 60950-1, standard.							
OTHERS	EMI	EN 55022 CLASS B Compliance to EN61000-3-2 CLASS A, EN61000-3-3							
	EMS	EN 55024 : EN 61000-4-2,3,4,5,6,8,11							
NOTE	Cooling	Natural Cooling.							
	M.T.B.F.	387K hours							
	Dimension	119.5 x 59.5x 36.5 mm (L*W*H)							
	Packing	N.W.: 0.38Kg / 1pc; 40pcs/ 1.95 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 10~50°C condition and 20MHz of bandwidth by 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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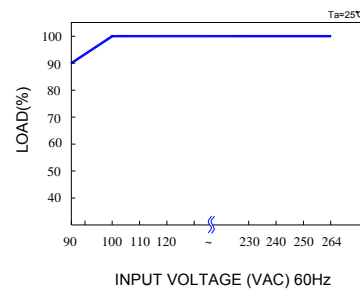
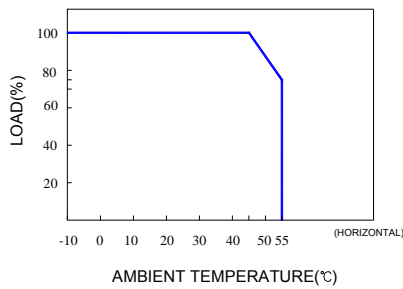
SPD-A60 Series

Block Diagram : US1



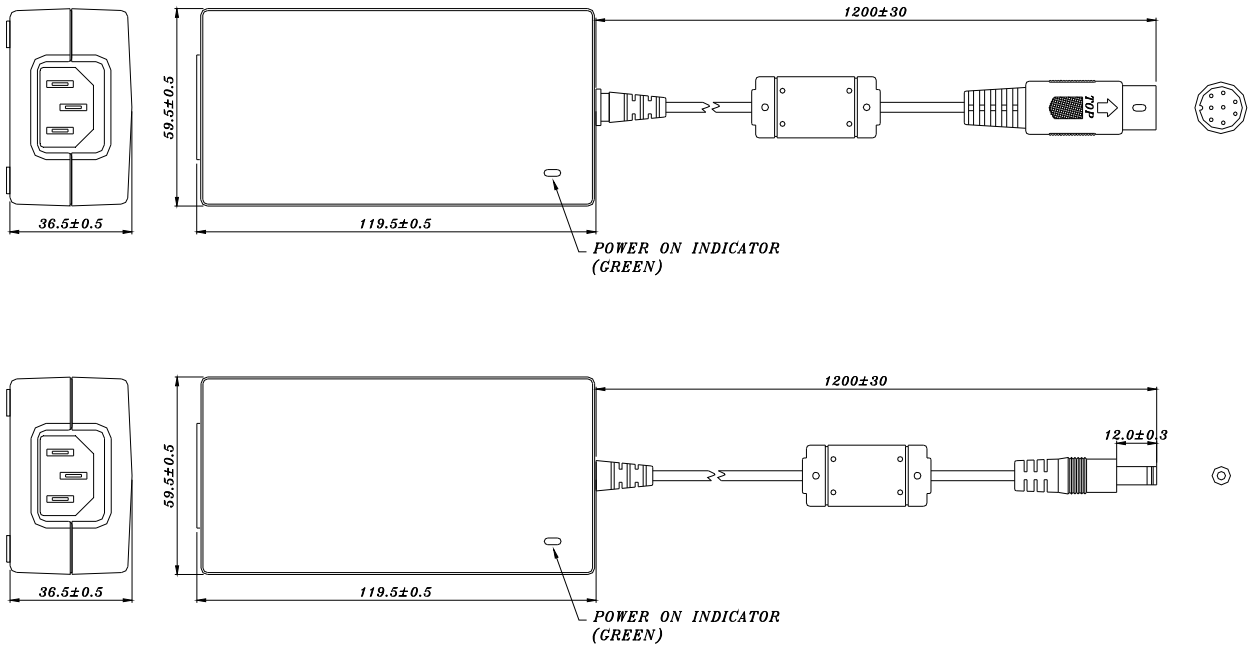
De-rating Curve :

Output De-rating Vs Input Voltage :



Dimension:

(Unit: mm)



Plug Assignment :

For 5V, 7.5V, 9V	
PIN No.	Output
1,2,3,5	GND
4,6,7,8	+V

For 12V, 15V, 19V, 24V, 48V	
PIN	Output
center	+
ID 2.5*OD5.5	