



SPD-A15 Series

15W, Single Output

Adapter Power Supply

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



86 x 50 x 33 mm

3.39 x 1.97 x 1.30 inch



Features:

- * Universal AC input 85~264V AC
- * Green mode design, no load < 0.3W
- * Over voltage protection
- * Over load & short circuit protection
- * AC inlet IEC 320-C14
- * With LED indicator
- * 100% full load burn-in test
- * UL, cUL, CE approved
- * 1 year warranty

Specification:

INPUT	Voltage	85V ~ 264VAC universal full range or 120V ~ 375VDC.					
	Frequency	47 ----- 63 Hz					
	Current	0.5A max @ 100V AC input					
	Inrush Current	<40A@115V AC , <60A@230V AC input. Cold start at 25℃ ambient					
	Leakage Current	<0.5mA@264V AC input					
OUTPUT	MODEL No.	SPD-A15-05	SPD-A15-7.5	SPD-A15-09	SPD-A15-12	SPD-A15-15	SPD-A15-24
	Voltage	5V	7.5V	9V	12V	15V	24V
	Min Load	0A	0A	0A	0A	0A	0A
	Max Load	3A	2.0A	1.67A	1.25A	1.0A	0.63A
	Output Tolerance ②	±5%	±5%	±5%	±3%	±3%	±2%
	Ripple Noise MAX. ③	70mV	80mV	80mV	80mV	100mV	150mV
	Efficiency (TYP.)	73%	79%	79%	81%	81%	82%
	Output MAX.	15W	15W	15W	15W	15W	15W
PROTECTION	Over Voltage	5.8V ~ 7.0V	8.6V ~ 10.5V	10.4V~ 12.6V	13.8V~16.8V	17.3V~ 21.0V	27.6V~ 33.6V
		Limiting voltage latch					
	Over Load & Short Circuit	When power supply over 105% 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	<50mS					
	Hold up time	>20mS@230V					
	Green mode function	Power consumption at no load < 0.3W					
ENVIRONMENT	Temperature ④	Operating: -10~55℃; De-rating: 45℃ ~55℃ : 2.5%/℃. ; Storage: -20 ~ +85℃					
	Humidity	Operating: 20% ~ 90% RH (non condensing); Storage: 10% ~ 95% RH (non condensing)					
SAFETY	Withstand voltage	I/P-O/P:3KVAC, 1minute					
	Isolation resistance	I/P-O/P,> 100MΩ/500VDC at 25℃ / 70% RH					
	Safety standard	UL 60950-1, CSA C22.2 No.60950-1-03, IEC 60950-1 approved.					
EMC	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					
OTHERS	Cooling	Natural Cooling.					
	M.T.B.F.	550 K hours					
	Dimension	86 x 50 x 33 mm (L*W*H)					
	Packing	N.W.: 0.17KG / 1PC ; 80PCS / 1.95 CUFT / 1 CTN					
NOTE	① All measurements which not mentioned are based on 230VAC input, output Max at ambient 25℃ / 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℃ 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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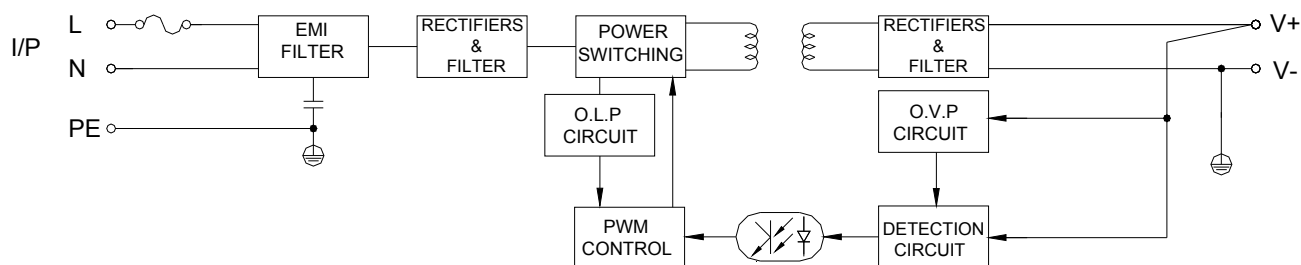
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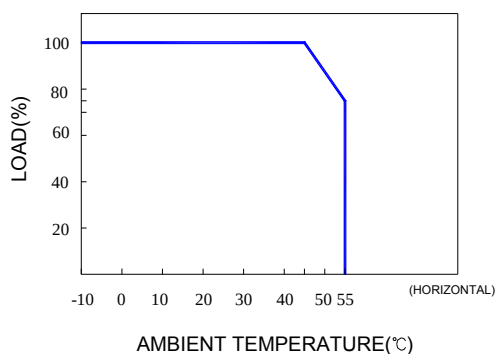
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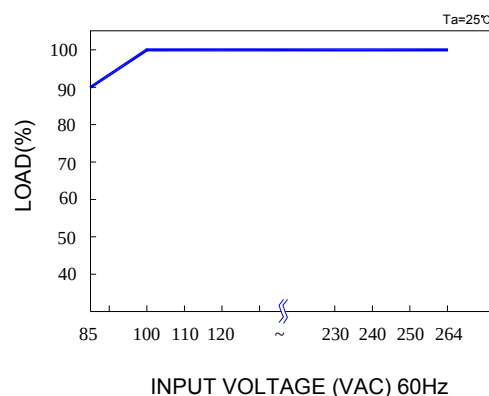
Block Diagram : US1



De-rating Curve :

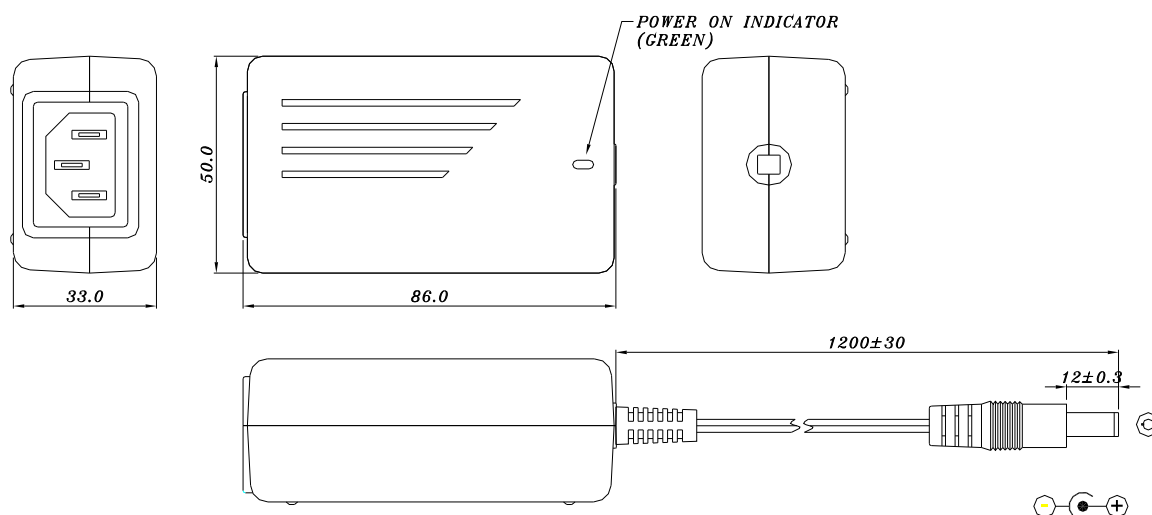


Output De-rating Vs Input Voltage :



Dimension:

(Unit: mm)



NOTE :

1. ENCLOSURE COLOR : BLACK.
2. AC INLET : IEC 320 C14 STANDARD.
3. DC PLUG. (I.D.=2.5mm ; O.D.=5.5mm)