



SPD-B30 Series

30W, Single Output Adapter Power Supply

SUNPOWER TECHNOLOGY CORP.
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96 x 47 x 34 mm
 3.78 x 1.85 x 1.34 inch

Features:

- * Green mode design, no load < 0.75W
- * Low ripple noise
- * Over voltage, over load & short circuit protection
- * AC inlet IEC320-C6
- * With LED indicator
- * Non min load requirement
- * 100% full load burn-in test
- * UL, cUL, TUV,CB standard
- * 1 years warranty

Specification:

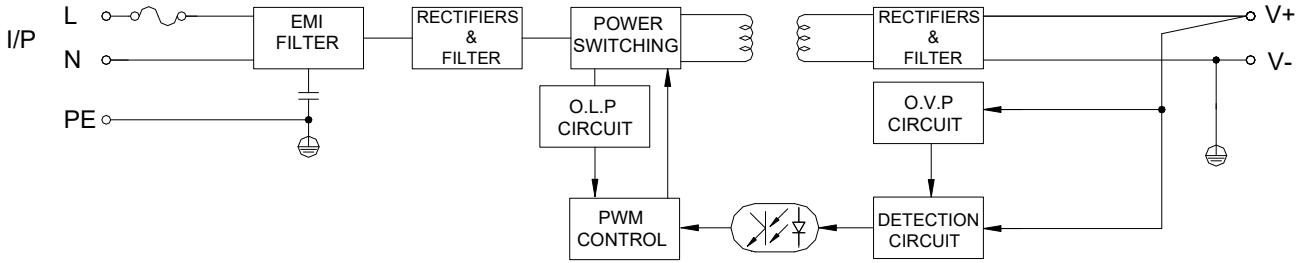
INPUT	Voltage	85V ~ 264VAC universal full range or 120V ~ 375VDC.							
	Frequency	47 ----- 63 Hz							
	Current	1.0A max @ 100V AC input							
	Inrush Current (TYP)	30A@115V AC , 50A@230V AC input. Cold start at 25°C ambient							
	Leakage Current	<0.5mA@264V AC input							
OUTPUT	MODEL No.	SPD-B30-05	SPD-B30-7.5	SPD-B30-09	SPD-B30-12	SPD-B30-15	SPD-B30-18	SPD-B30-24	SPD-B30-48
	Voltage	5V	7.5V	9V	12V	15V	18V	24V	48V
	Min Load	0A	0A	0A	0A	0A	0A	0A	0A
	Max Load	5A	4A	3.34A	2.5A	2A	1.67A	1.25A	0.63A
	Output Tolerance ②	±5%	±5%	±5%	±3%	±3%	±3%	±3%	±3%
	Ripple Noise MAX. ③	70mV	80mV	90mV	120mV	150mV	180mV	200mV	240mV
	Efficiency (TYP.)	73%	75%	78%	80%	80%	80%	83%	83%
PROTECTION	Output MAX.	25W	30W	30W	30W	30W	30W	30W	30W
	Over Voltage	5.8~7.0V	8.6~10.5V	10.4~12.6V	13.8~16.8V	17.3~21V	20.7~25.2V	27.6~33.6V	55.2~67.2V
ELEC. CHAR.	Limiting voltage latch	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.							
ENVIRONMENT	Rise time	<50mS							
	Hold up time	>20mS@230V							
SAFETY	Green mode function	Power consumption at no load < 0.75W							
	Temperature ④	Operating: -10~55°C ; De-rating: 45°C ~55°C : 2.5%/°C. ; Storage: -20 ~ +85°C							
EMC	Humidity	Operating: 20% ~ 90% RH (non condensing); Storage: 10% ~ 95% RH (non condensing)							
	Withstand voltage	I/P-O/P:3.0KVAC, 1minute							
OTHERS	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.							
NOTE	EMI	EN 55022 CLASS B							
	EMS	Compliance to EN61000-3-2 CLASS A, EN61000-3-3							
NOTE	EN 55024	EN 55024 : EN 61000-4-2,3,4,5,6,8,11							
	Cooling	Natural Cooling.							
NOTE	M.T.B.F.	553 K hours							
	Dimension	96 x 47 x 34 mm (L*W*H)							
NOTE	Packing	N.W.: 0.28KG / 1PC ; 80PCS / 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.								



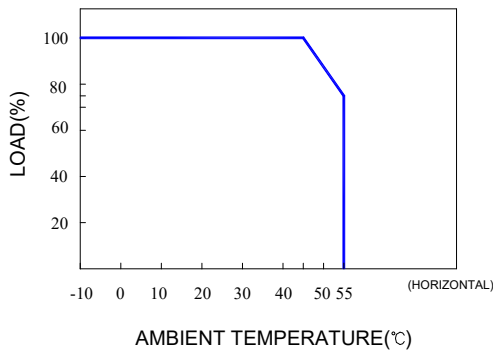
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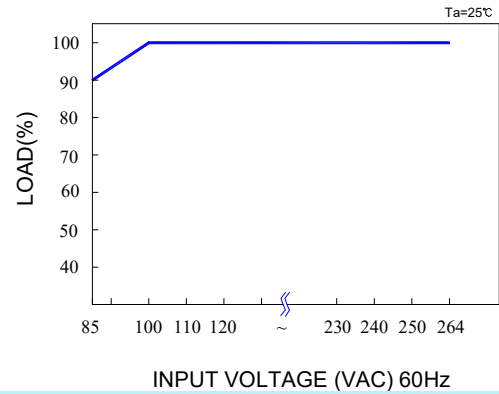
Block Diagram : US1



De-rating Curve :

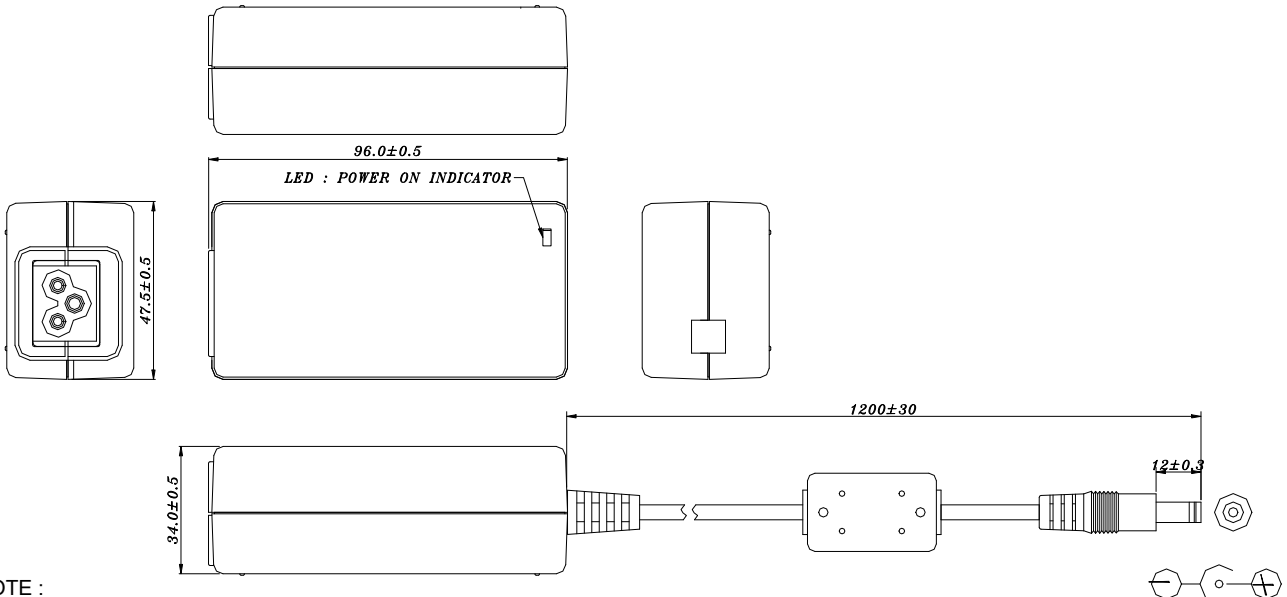


Output De-rating Vs Input Voltage :



Dimension:

(Unit: mm)



NOTE :

1. AC INLET : PER IEC 320-C6 STANDARD.
2. DC PLUG. (I.D.=2.5mm;O.D.=5.5mm)
3. ENCLOSURE COLOR : BLACK.
4. UNIT : mm