



SUNPOWER TECHNOLOGY CORP.  
 33485 Western Ave., Union City, CA 94587, United States of America  
 TEL: (510) 489-5088 FAX: (510) 489-8966  
 http://www.sunpower-usa.com  
 E-mail: support@sunpower-usa.com

# SPR-2327P6 / SPR-2328P6

## 320+320W, Hot Swap Redundant for Industrial 1U System

### Active P.F.C Function



228.6 x 225 x 42.6 mm

9.0 x 8.86 x 1.68 inch



#### Features:

- \* Universal full range with active P.F.C.
- \* Built-in long life Ball-bearing fan.
- \* Hot swap, easy to install, zero transfer time
- \* Putting Or-ing diode inside module.
- \* Over voltage, over load & short circuit protection
- \* Power fail, fan fail alarm and TTL signal.
- \* UL, cUL, TUV, CB, CE approved
- \* 2 years warranty

#### Specification:

INPUT	Voltage	90V ~ 264VAC universal full range or 127V ~ 375VDC					
	Frequency	47 ~ 63 Hz					
	Current	<5.0A@100VAC, AC input single module full load condition.					
	Inrush Current	<40A@115VAC, <80A@230VAC, Single Module AC input 25°C condition cold start					
	Leakage Current	<2mA@264V AC input.					
	Power Factor	PF > 0.95					
OUTPUT	Voltage	V1	V2	V3	V4	V5	V6
		5V	3.3V	12V	-5V	-12V	5Vsb
	Min Load	3A	0A	1A	0A		
	Max Load	30A	15A	20A	0.5A	1A	2A
	Output Tolerance ②	± 5 %					
	Ripple Noise MAX. ③	70mV	70mV	120mV	70mV	150mV	70mV
PROTECTION	Efficiency (TYP.)	70%					
	Output MAX.	3.3V & 5V max 150W ; -5V&-12V Max 12W ; total output max 320W					
	Over Voltage Protection	3.3V : 3.8V ~ 4.6V; 5V : 5.8V ~ 7.0V, 12V : 13.8V ~ 16.8V ; Shutdown and latch off, recover after re-start up.					
ELEC. CHAR.	OverLoad & Short Circuit	When power supply over 105%~ 150% max load or short circuit acted, power supply will be shutdown and latch off.					
	Rise time	<60mS					
	Hold up time	>20mS@230V					
	Power Good signal	Power on within 100~500ms, high level TTL signal release.					
	PS-ON signal	P/S ON: PS-ON=Low or <0.8V, P/S OFF: PS-ON=Hi or >2V					
ENVIRONMENT	Alarm	Power fail alarm, fan fail alarm.					
	Temperature ④	Operating: -10~70°C ; De-rating: 45°C~70°C : 2.5%/°C. ; Storage: -20~+85°C .					
SAFETY	Humidity	Operating: 20% ~ 90% RH (non condensing); Storage: 10% ~ 95% RH (non condensing).					
	Withstand voltage	I/P-O/P:3KVAC, I/P-PE:1.5KVAC, 1minute					
	Isolation resistance	I/P-O/P, I/P-PE, > 100MΩ/500VDC at 25°C / 70% RH					
EMC	Safety standard	UL 60950 3 <sup>rd</sup> , CSA C22.2 No.60950 3 <sup>rd</sup> , TUV EN 60950-1:2001+A11, IEC 60950, approved					
	EMI	EN 55022 CLASS B, FCC CFR 47 PART 15 CLASS B, CNS 13438 CLASS B.					
	EMS	Compliance to EN61000-3-2 CLASS D, EN61000-3-3					
OTHERS	EMS	EN 55024 : EN 61000-4-2,3,4,5,6,8,11					
	Cooling	Built-in DC ball-bearing fan in each module.					
	M.T.B.F.	118 K hours.					
	Dimension	228.6 x 225 x 42.6 mm (W*D*H)					
	Packing	N.W.: 3.5 KG / 1SET ; 1.95 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.  
 The regulation is measured at the condition : when any of output is with 20% ~ 100% **max load** and the rest of each outputs are with 60% **max load**, Each output could work within **max load** but must under total **output max**.

③ Ripple & noise are measured at 100~254VAC input with 0~50°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

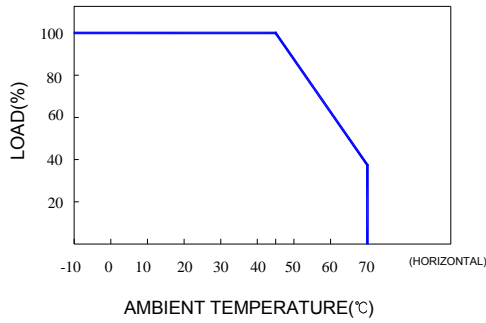
⑤ The power supply is considered a component of end-equipment. The end-equipment must be re-confirmed whether comply with EMC directives.



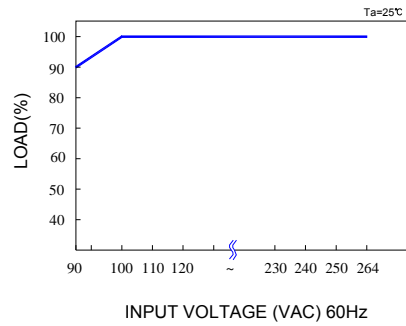
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## De-rating Curve :



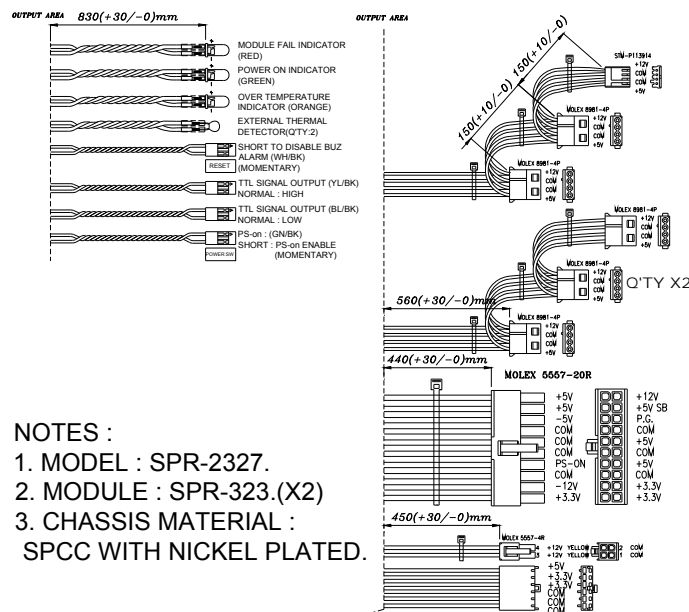
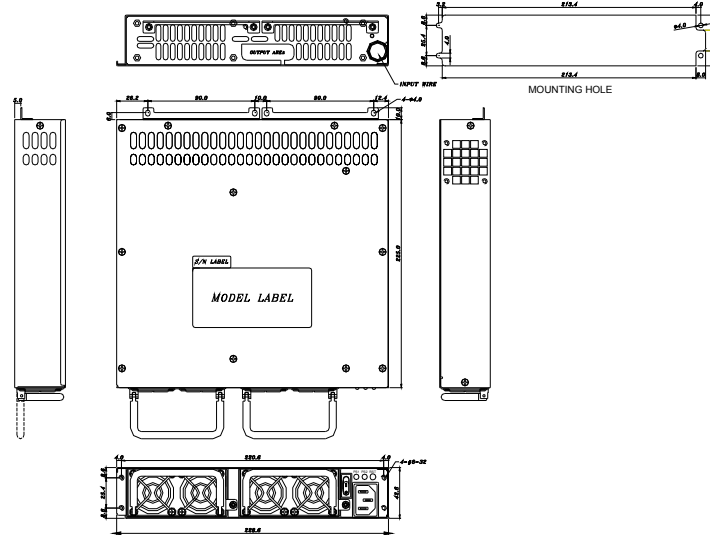
## Output De-rating Vs Input Voltage :



## Dimension:

(Unit: mm)

### SPR-2327P6



- NOTES :
1. MODEL : SPR-2327.
  2. MODULE : SPR-323.(X2)
  3. CHASSIS MATERIAL : SPCC WITH NICKEL PLATED.



SUNPOWER TECHNOLOGY CORP.  
 16F-1, No.150, Jian Yi Rd., Chung Ho City, Taipei Hsien, 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

# SPR-2327P6 / SPR-2328P6

Dimension: (Unit: mm)  
**SPR-2328P6**

