



SUNPOWER TECHNOLOGY CORP.  
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# RAM-2807&8P6 Series

## 400W+400W , N+1 Current Share

## Hot Swap Redundant

## For ATX, Active P.F.C Function



183 x 353 x 105 mm  
 7.2 x 13.9 x 4.13 inch



### Features:

- \* Universal full range with active P.F.C.
- \* Active current sharing output for 3.3V and 5V
- \* Hot swap power module operation, easy to install, zero transfer time
- \* Power fail, fan fail alarm and TTL signal
- \* Over voltage, over load & short circuit protection
- \* Output remote sense for heavy load drop
- \* Over temperature protection (optional)
- \* Putting Or-ing diode inside module.
- \* Remote control power ON/OFF
- \* Built-in long life ball bearing fan
- \* Meet Intel ATX 2.01 / 2.03 / ATX 12V
- \* UL, cUL, TUV, ,CB, CE approved.
- \* 2 years warranty

### Specification:

INPUT	<b>Voltage</b>	90V ~ 264VAC universal full range or 127V ~ 375VDC. ; *RAM-2807Px : VIA FRONT SIDE. **RAM-2808Px : VIA REAR SIDE.					
	<b>Frequency</b>	47 ---- 63Hz					
	<b>Current</b>	<10A@100VDC input, full load condition					
	<b>Inrush Current</b>	<40A@115V , <80A@230V AC Input, Cold start, at 25°C ambient					
	<b>Leakage Current</b>	<2mA@264V AC input					
	<b>Power Factor</b>	PF > 0.95					
	<b>Voltage</b>	5V	3.3V	12V	-5V	-12V	5V sb
	<b>Min Load</b>	6A	0A	2A	0A	0A	0A
	<b>Max Load (System)</b>	85A	45A	20A	0.5A	1A	2A
	<b>Output Tolerance</b> ②	±3%	±5%	±5%	±5%	±5%	±3%
<b>Ripple Noise MAX.</b> ③	70mV	70mV	120mV	70mV	150mV	70mV	
<b>Efficiency (TYP.)</b>	68%						
<b>Output MAX.</b>	3.3V & 5V of single module total output max 250W, dual module total max 425W Total output max 610W						
PROTECTION	<b>Over Voltage</b>	5.8V~7.0V	3.8V~4.6V	13.8V~16.8V	Shutdown and latch off, recover after re-start up.		
	<b>OverLoad &amp; ShortCircuit</b>	When power supply over 105%~ 150% max load or short circuit acted, power supply will be shutdown and latch off.					
	<b>Over Temperature</b>	Optional, Over 95°C ± 5°C Shutdown, recovers automatically after fault condition has been removed.					
ELEC. CHAR.	<b>Rise time</b>	<20mS					
	<b>Hold up time</b>	>20mS@230V					
	<b>Power good signal</b>	Power ON within 100---500ms, high level TTL Signal release.					
	<b>PS-ON signal</b>	P/S ON : PS-ON=LOW or < 0.8V ; P/S OFF : PS-ON=HI or >2V					
ENVIRONMENT	<b>Power fail alarm</b>	Power & FAN fail or turn off, the buzzer will beep, and TTL single will on low.					
	<b>Temperature</b> ④	Operating: -10~70°C ; De-rating: 40°C~70°C : 2.5%/°C. ; Storage: -20~+85°C .					
	<b>Humidity</b>	Operating: 20% ~ 90% RH (non condensing); Storage: 10% ~ 95% RH (non condensing)					
SAFETY	<b>Withstand voltage</b>	I/P-O/P:3KVAC, I/P-PE:1.5KVAC, 1minute					
	<b>Isolation resistance</b>	I/P-O/P, I/P-PE, > 100MΩ/500VDC at 25°C / 70% RH					
	<b>Safety standard</b>	UL 60950-1 1 <sup>st</sup> , CSA C22.2 No. 60950-1- 03 1 <sup>st</sup> , TUV EN 60950-1:2001+A11, IEC 60950-1, approved.					
EMC	<b>EMI</b>	EN 55022 CLASS B, FCC CFR 47 PART 15 CLASS B, CNS 13438 CLASS B.					
		Compliance to EN61000-3-2 CLASS D, EN61000-3-3					
	<b>EMS</b>	EN 55024 : EN 61000-4-2,3,4,5,6,8,11					
OTHERS	<b>Cooling</b>	Built-in DC ball-bearing fan in module.					
	<b>Dimension</b>	183 x 353 x 105 mm (D*W*H)					
	<b>M.T.B.F.</b>	84K hours					
	<b>Packing</b>	N.W.: 8 KG / 1 SET / 1.22 CUFT / 1 CTN					
NOTE	① All measurements which not mentioned are based on 230VAC input, <b>output max</b> 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% <b>max load</b> and the rest of each outputs are with 60% <b>max load</b> , Each output could work within <b>max load</b> but must under total <b>output max</b> .						
	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 power supply is considered a component of end-equipment. The end-equipment must be re-confirmed whether comply with EMC directives.						



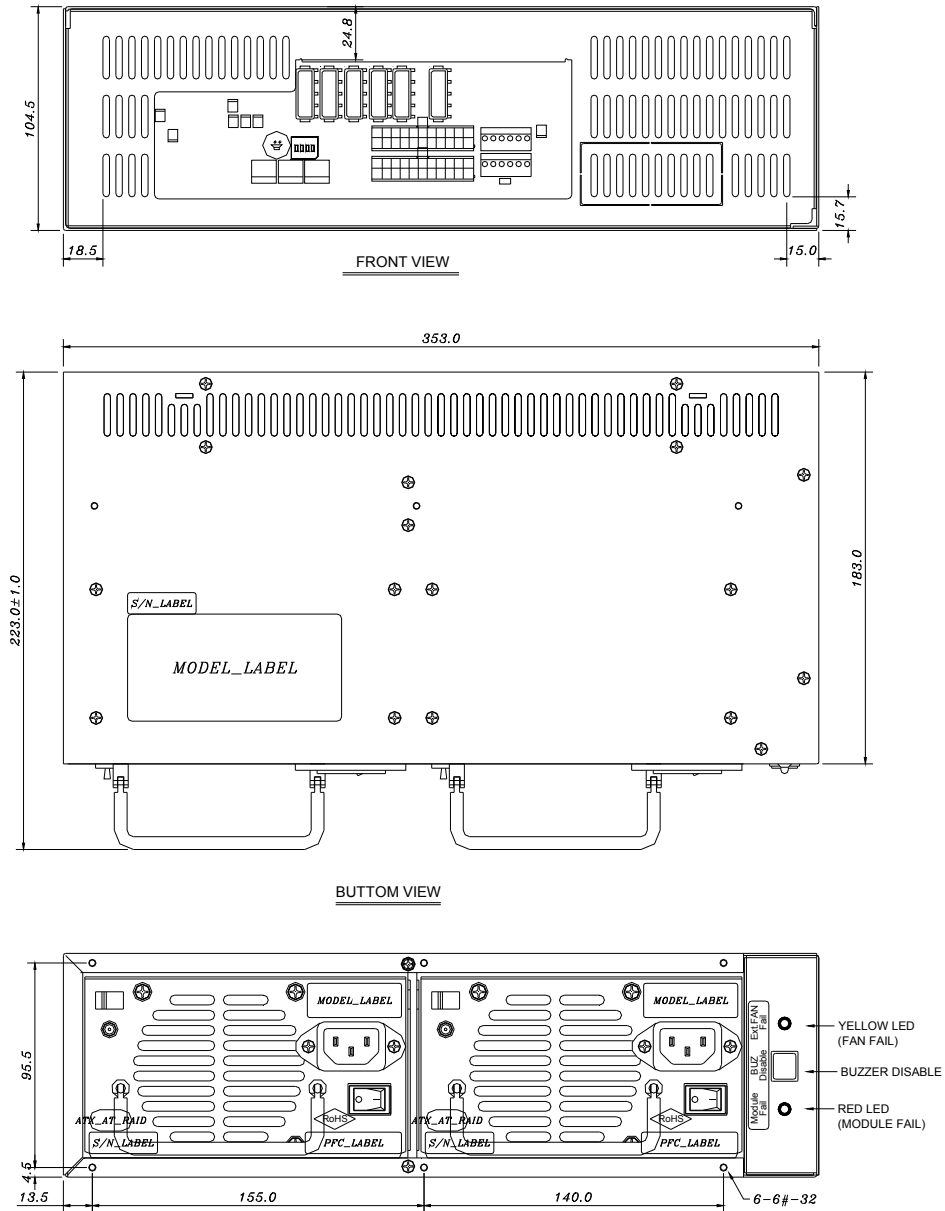
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# RAM-2807&8P6 Series

Dimension:

(Unit: mm)

RAM-2807Px (AC input via front side.)





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# RAM-2807&8P6 Series

RAM-2808Px (AC input via rear side.)

