


[Products](#)
[SuperServer®](#)
[Storage](#)
[Motherboards](#)
[Chassis](#)
[SuperWorkstation](#)
[SuperBlade®](#)
[MicroBlade™](#)

[Enclosures](#)  
[Server Blades](#)  
[Management](#)  
[Networking](#)  
[Power Supplies](#)  
[Blade Matrix](#)

[Ultra \(new\)](#)
[WIO](#)
[Twin Solutions \(new\)](#)
[MP Servers](#)
[GPU / Coprocessor](#)
[MicroCloud](#)
[Networking](#)
[Embedded](#)
[Gaming](#)
[AMD Solutions](#)
[Power Supplies](#)
[Accessories](#)
[SuperRack®](#)
[Server Management](#)


BBP® for MicroBlade / SuperBlade Flyer

## MicroBlade™ - Power Supplies and Cooling

One of the biggest benefits of moving to a blade environment is the relocation of power supplies and fans into a single chassis versus an individual set in each server. This greatly helps reduce the power requirements on a per server basis.

Underlining Supermicro's high-efficiency power philosophy into the MicroBlade server technology, Supermicro engineers have mastered the power supply design challenge to produce high-quality, high-performance solutions with peak efficiency ratings of 96%. Supermicro solutions continue to outperform and outlast the competition and providing the best technology investment available to customers.

### Key Advantages of Supermicro High-efficiency Blade Power Supplies

- **Availability** - Non-stop power with N+1 or N+N up to 8 redundant power supply modules
- **Cost Saving** - At 96% peak efficiency, power consumption is significantly reduced, providing a planet-friendly, real-world advantage for our environment.
- **Investment Protection** - Power capacity headroom for future generation processors
- **Easy Installation** - Snap-in installation from the back of the chassis; hot-swappable in operation
- **Intelligent Power Infrastructure** - Each power enclosure includes a power management module that monitors the power supplies and the power enclosure that connects to the blade management.



PWS-2K02D-BR (Power Supply)	
Maximum Output Power	■ 2000W/1600W
Type	■ Redundant Module
+12Vsb	■ 166.7A (2000W) ■ 133.3A (1600W)
12Vsb	■ 4.2A
PFC	■ No
Peak Efficiency	■ 92%+
Input DC Range	■ 1600W @ -40-44 Vdc ■ 2000W @ -44-66 Vdc
Operating Conditions	■ Temp: 0 to 50°C ■ Humidity: up to 80%
Fan Type	■ 80x80mm Counter Rotating Fans



PWS-2K01A-BR (Power Supply) & PWS-DF003-2F (Fan)	
Maximum Output Power	■ 2000W
Type	■ Redundant Module
+12V	■ 166.7A (230-240VAC) ■ 165A(220-230VAC) ■ 150A(200-220VAC) ■ 83.3A(100-127VAC)
12Vsb	■ 4.2A
PFC	■ Yes
Peak Efficiency	■ 96%
Input AC Range	■ 100~240VAC
Operating Conditions	■ Temp: -5 to 50°C ■ Humidity: 5 to 95% RH
Maximum Available Power for various input voltages	■ 100-127VAC input: 1000W ■ 200-220VAC input: 1800W ■ 220-230VAC input: 1980W ■ 230-240VAC input: 2000W
Fan Type	■ 80x80mm Counter Rotating Fans
Certification	



PWS-1K67P-1R (Power Supply) & PWS-DF001-1F (Fan)	
Maximum Output Power	■ 1600W
Type	■ Redundant Module
	■ 133.3A (200-240VAC)

<b>+12V</b>	<ul style="list-style-type: none"> <li>■ 116.7A(120-140VAC)</li> <li>■ 100A(100-120VAC)</li> </ul>
<b>12Vsb</b>	<ul style="list-style-type: none"> <li>■ 2A</li> </ul>
<b>PFC</b>	<ul style="list-style-type: none"> <li>■ Yes</li> </ul>
<b>Peak Efficiency</b>	<ul style="list-style-type: none"> <li>■ 95%</li> </ul>
<b>Input AC Range</b>	<ul style="list-style-type: none"> <li>■ 100~240VAC</li> </ul>
<b>Operating Conditions</b>	<ul style="list-style-type: none"> <li>■ Temp: -5 to 50°C</li> <li>■ Humidity: 5 to 95% RH</li> </ul>
<b>Maximum Available Power for various input voltages</b>	<ul style="list-style-type: none"> <li>■ 100-120VAC input: 1200W</li> <li>■ 120-140VAC input: 1400W</li> <li>■ 200-240VAC input: 1600W</li> </ul>
<b>Fan Type</b>	<ul style="list-style-type: none"> <li>■ 80x80mm fans</li> </ul>
<b>Certification</b>	  <b>80 PLUS Platinum Certified</b>



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