



Products

SuperServer®

Storage

Motherboards

Chassis

SuperWorkstations

SuperBlade®

MicroBlade™ (new)

Ultra (new)

WIO

Twin Solutions

MP Servers

GPU / Xeon Phi™

MicroCloud

Networking

Embedded

Gaming

AMD Solutions

Power Supplies

Titanium Level

Ultra

PowerStick

50/54mm Width

-48Vdc Input

AC/DC240V Input

BBP® Module

Accessories

SuperRack®

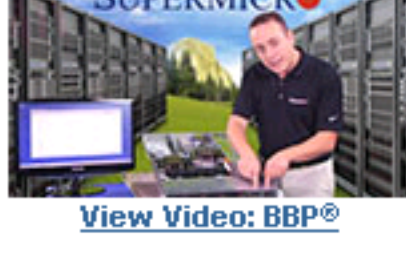
Server Management



Titanium Power Supply White Paper



BBP® Server Solutions Flyer



View Video: BBP®

Power Supplies

| Introduction | SuperServer® | PSU Matrix | Power Output Cable Matrix | Digital Switching® |



Supermicro's wide range of high efficiency power supplies offer many important features including Titanium Level efficiency, digital switching control, super quiet operation, redundancy, DC inputs, FCC Class B certification, remote monitoring with PMBus, support for GPUs/graphics cards, Supermicro's signature server level quality and reliability, in a variety of form factors and capacities. The latest Titanium Level (96%+) power supplies provide the greatest power efficiencies for highest electric power savings that is so significant that it can virtually pay for the power supply itself.

Supermicro's power supplies are designed for enterprise level applications where high quality and reliability are critical, and where the highest power efficiencies are required to reduce TCO (Total Cost of Ownership). With strong experience in the server systems market, Supermicro is experienced in testing and validating these power supplies in all relevant enterprise environments under all necessary operating conditions, compiling long operating records for multiple applications.

Power Supply Types:

| Titanium | Ultra | Powerstick | 1U 50/54MM Width | -48Vdc | AC/DC240V | BBP® |

Ultra Power Supplies



PWS-1K62A-1R



PWS-1K02A-1R



PWS-1K04A-1R



PWS-1K22A-1R



PWS-751P-1R



PWS-2K05A-1R



PWS-2K03P-1R



PWS-1K66P-1R



PWS-750F-1R



PWS-1K60D-1R

| Ultra Power Supply                        |                                                                       |
|-------------------------------------------|-----------------------------------------------------------------------|
| 1600W Redundant Power Supplies with PMBus |                                                                       |
| Total Output Power                        | 1000W/1600W                                                           |
| Dimension (W x H x L)                     | 73.5 x 40 x 203 mm                                                    |
| Input                                     | 100-127Vac / 13 - 9A / 50-60Hz<br>200-240Vac / 10 - 8A / 50-60Hz      |
| +12V                                      | Max: 83.3A / Min: 0A (100-127Vac)<br>Max: 133A / Min: 0A (200-240Vac) |
| 12Vsb                                     | Max: 2.1A / Min: 0A                                                   |
| Output Type                               | 25 Pairs Gold Finger Connector                                        |
| Certification                             | 80 PLUS TITANIUM UL6/UL/CB/BSMI/CE/CCC Titanium Level [ Test Report ] |

| Ultra Power Supply                        |                                                                       |
|-------------------------------------------|-----------------------------------------------------------------------|
| 1000W Redundant Power Supplies with PMBus |                                                                       |
| Total Output Power                        | 800W/1000W                                                            |
| Dimension (W x H x L)                     | 73.5 x 40 x 203 mm                                                    |
| Input                                     | 100-127Vac / 9.8 - 7A / 50-60Hz<br>200-240Vac / 7 - 5A / 50-60Hz      |
| +12V                                      | Max: 66.7A / Min: 0A (100-127Vac)<br>Max: 83A / Min: 0A (200-240Vac)  |
| 12Vsb                                     | Max: 2.1A / Min: 0A                                                   |
| Output Type                               | 25 Pairs Gold Finger Connector                                        |
| Certification                             | 80 PLUS TITANIUM UL6/UL/CB/BSMI/CE/CCC Titanium Level [ Test Report ] |

| Ultra Power Supply                        |                                                                       |
|-------------------------------------------|-----------------------------------------------------------------------|
| 1000W Redundant Power Supplies with PMBus |                                                                       |
| Total Output Power                        | 800W/1000W                                                            |
| Dimension (W x H x L)                     | 73.5 x 40 x 185 mm                                                    |
| Input                                     | 100-127Vac / 9.8 - 7A / 50-60Hz<br>200-240Vac / 7 - 5A / 50-60Hz      |
| +12V                                      | Max: 66.7A / Min: 0A (100-127Vac)<br>Max: 83A / Min: 0A (200-240Vac)  |
| 12Vsb                                     | Max: 2.1A / Min: 0A                                                   |
| Output Type                               | 25 Pairs Gold Finger Connector                                        |
| Certification                             | 80 PLUS TITANIUM UL6/UL/CB/BSMI/CE/CCC Titanium Level [ Test Report ] |

| Ultra Power Supply                        |                                                                       |
|-------------------------------------------|-----------------------------------------------------------------------|
| 1200W Redundant Power Supplies with PMBus |                                                                       |
| Total Output Power                        | 800W/1200W                                                            |
| Dimension (W x H x L)                     | 73.5 x 40 x 203 mm                                                    |
| Input                                     | 100-127Vac / 9.8 - 7A / 50-60Hz<br>200-240Vac / 7.5 - 6A / 50-60Hz    |
| +12V                                      | Max: 66.7A / Min: 0A (100-127Vac)<br>Max: 100A / Min: 0A (200-240Vac) |
| +12Vsb                                    | Max: 2.1A / Min: 0A                                                   |
| Output Type                               | 25 Pairs Gold Finger Connector                                        |
| Certification                             | 80 PLUS TITANIUM UL6/UL/CB/BSMI/CE/CCC Titanium Level [ Test Report ] |

| Ultra Power Supply                       |                                                                    |
|------------------------------------------|--------------------------------------------------------------------|
| 750W Redundant Power Supplies with PMBus |                                                                    |
| Total Output Power                       | 750W                                                               |
| Dimension (W x H x L)                    | 73.5 x 40 x 203 mm                                                 |
| Input                                    | 100-127Vac / 9.5A Max / 47-63Hz<br>200-240Vac / 4.5A Max / 47-63Hz |
| +12V                                     | Max: 62.5A / Min: 0A                                               |
| 12V SB                                   | Max: 2.1A / Min: 0A                                                |
| Output Type                              | 25 Pairs Gold Finger Connector                                     |
| Certification                            | 80 PLUS PLATINUM 94 TITANIUM Platinum Level [ Test Report ]        |

| Ultra Power Supply                        |                                                                                                                                                                                                     |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2000W Redundant Power Supplies with PMBus |                                                                                                                                                                                                     |
| Total Output Power                        | 1000W/1800W/1980W/2000W                                                                                                                                                                             |
| Dimension (W x H x L)                     | 73.5 x 40 x 265 mm                                                                                                                                                                                  |
| Input                                     | 100-120Vac / 12-9.5A / 50-60Hz<br>200-220Vac / 10-9.5A / 50-60Hz<br>220-230Vac / 10-9.8A / 50-60Hz<br>230-240Vac / 10-9.8A / 50-60Hz<br>200-240Vac / 11.8-9.8A / 50-60Hz (UL/cUL only)              |
| +12V                                      | Max: 83.3A / Min: 0A (100-120Vac)<br>Max: 150A / Min: 0A (200-220Vac)<br>Max: 165A / Min: 0A (220-230Vac)<br>Max: 166.7A / Min: 0A (230-240Vac)<br>Max: 166.7A / Min: 0A (200-240Vac) (UL/cUL only) |
| 12Vsb                                     | Max: 2.1A / Min: 0A                                                                                                                                                                                 |
| Output Type                               | 25 Pairs Gold Finger Connector                                                                                                                                                                      |
| Certification                             | 80 PLUS TITANIUM UL6/UL/CB/BSMI/CE/CCC Titanium Level [ Test Report ]                                                                                                                               |

| Ultra Power Supply                           |                                                                                                                                                                                                               |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2000W 1U Redundant Power Supplies with PMBus |                                                                                                                                                                                                               |
| Total Output Power                           | 1000W/1800W/1980W/2000W                                                                                                                                                                                       |
| Dimension (W x H x L)                        | 73.5 x 40 x 265 mm                                                                                                                                                                                            |
| Input                                        | 100-120Vac / 11.8-9.8A / 50-60Hz<br>200-220Vac / 10-9.5A / 50-60Hz<br>220-230Vac / 10-9.8A / 50-60Hz<br>230-240Vac / 10-9.8A / 50-60Hz<br>200-240Vac / 11.8-9.8A / 50-60Hz (UL/cUL only)                      |
| +12V                                         | Max: 83.3A / Min: 0.1A (100-120Vac)<br>Max: 150A / Min: 0.1A (200-220Vac)<br>Max: 165A / Min: 0.1A (220-230Vac)<br>Max: 166.7A / Min: 0.1A (230-240Vac)<br>Max: 166.7A / Min: 0.1A (200-240Vac) (UL/cUL only) |
| 12V SB                                       | Max: 3.5A / Min: 0A                                                                                                                                                                                           |
| Output Type                                  | 25 Pairs Gold Finger Connector                                                                                                                                                                                |
| Certification                                | 80 PLUS PLATINUM 94 TITANIUM Platinum Level [ Test Report ]                                                                                                                                                   |

| Ultra Power Supply                           |                                                                         |
|----------------------------------------------|-------------------------------------------------------------------------|
| 1600W 1U Redundant Power Supplies with PMBus |                                                                         |
| Total Output Power                           | 1000W/1600W                                                             |
| Dimension (W x H x L)                        | 73.5 x 40 x 265 mm                                                      |
| Input                                        | 100-127Vac / 12.9A Max / 47-63Hz<br>200-240Vac / 9.5A Max / 47-63Hz     |
| +12V                                         | Max: 82A / Min: 0.1A (100-127Vac)<br>Max: 132A / Min: 0.1A (200-240Vac) |
| 12V SB                                       | Max: 2A / Min: 0.2A                                                     |
| Output Type                                  | 25 Pairs Gold Finger Connector                                          |
| Certification                                | 80 PLUS PLATINUM 94 TITANIUM Platinum Level [ Test Report ]             |

| Ultra Power Supply with Reverse Airflow               |                                                                    |
|-------------------------------------------------------|--------------------------------------------------------------------|
| 750W 1U Redundant Power Supplies with Reverse Airflow |                                                                    |
| Total Output Power                                    | 750W                                                               |
| Dimension (W x H x L)                                 | 73.5 x 40 x 185 mm                                                 |
| Input                                                 | 100-127Vac / 9.5A Max / 47-63Hz<br>200-240Vac / 4.5A Max / 47-63Hz |
| +12V                                                  | Max: 62.5A / Min: 0A                                               |
| 12V SB                                                | Max: 2.1A / Min: 0A                                                |
| Output Type                                           | 25 Pairs Gold Finger Connector                                     |
| Certification                                         | 80 PLUS PLATINUM 94 TITANIUM Platinum Level [ Test Report ]        |

| -48Vdc Input Ultra Power Supply              |                                |
|----------------------------------------------|--------------------------------|
| 1600W 1U Redundant Power Supplies with PMBus |                                |
| Total Output Power                           | 1600W                          |
| Dimension (W x H x L)                        | 73.5 x 40 x 265 mm             |
| DC Input                                     | -48Vdc to -60Vdc / 40A Max     |
| +12V                                         | Max: 133A / Min: 0A            |
| 12V SB                                       | Max: 3.5A / Min: 0A            |
| Output Type                                  | 25 Pairs Gold Finger Connector |
| Certification                                | UL/cUL/CB/CE/CCC               |

Titanium Level PWS



PWS-2K05A-1R (2000W) [ Test Report ]

PWS-2K04A-1R (2000W) [ Test Report ]

PWS-1K68A-1R (1680W) [ Test Report ]

PWS-1K62A-1R (1600W) [ Test Report ]

PWS-1K23A-1R (1200W) [ Test Report ]

PWS-1K22A-1R (1200W) [ Test Report ]

PWS-1K03A-1R (1000W) [ Test Report ]

PWS-1K02A-1R (1000W) [ Test Report ]

Full list of Certified Power Supplies by 80Plus