Platinum Level PWS

 PWS-3K01-BR (3000VV) [Test Report]

 PWS-2K53-BR (2500VV) [Test Report]

• PWS-1K81P-1R (1800W)

• PWS-1K62P-1R (1620W)

PWS-1k28P-SQ (1280W)

PWS-1k25P-PQ (1200W)

PWS-920P-SQ (920W)

 PWS-920P-1R (920VV) [Test Report]

• PWS-741P-1R (740VV)

• PWS-605P-1H (600VV)

• PWS-504P-1R (500VV)

• PWS-501P-1R (500VV)

[Test Report]

[Test Report]

[Test Report] • PWS-503P-1R (500VV)

[Test Report]

[Test Report]

Full list of Certified

Power Supplies by 80Plus

[Test Report]

[Test Report]

[Test Report]

[Test Report]

[Test Report]



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Power Supplies



Supermicro's wide range of high efficiency power supplies offer many important features including Ratinum/ Gold Level efficiency, digital switching control, super quiet operation, redundancy, DC inputs, FCC Class B certification, EuP standard support, remote monitoring with PMBus, support for GPUs/graphics cards, Supermicro's signature server level quality and reliability; in a variety of form factors (ATX, slim, short depth).

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.

| Intro. | SuperServers | Chassis | PSU Matrix | Power Output Cable Matrix | BBP® |

Power Supply with Digital Switching Control



PWS-1K28P-SQ

Power Supply with Digital Switching Control & PMBus 1.2

1280W High-Efficiency (95%+) power supply

1000W Output @ 100-140V, 12-8A, 50-60Hz
 1280W Output @ 180-240V, 8-6A, 50-60Hz

■ 1000W: +12V/83A; +5Vsb/4A 1280W: +12V/106.7A, +5Vsb/4A

DC Output Certification

AC Input



Platinum Certified [Test Report]



PWS-605P-1H

Power Supply with Digital Switching Control & PMBus 1.2 600WAC power supply w/ PFC (24-pin) ■ 100-240 V, 50-60 Hz, 7.5 Amp max ■ 18 Amp +5V standby ■ 3Amp +12V ■ 49 Amp -12V ■ 0.5 Amp +3.3V 15 Amp



Digital Switching Power Supply

- Different name referring to the use of digital switching control in power supply: Digital Power Supply, Digital Controlled, DSP Controlled, etc.
- Most server power supplies are designed as switching mode power supplies. There will be power transistors turning on and off harmonically. That on/off signal is driven by
- Digital switching is achieved by implementing a micro-controller to generate PWM signal instead of the conventional analogue circuit.

Advantages of Power Supplies with Digital Switching

- Improved overall power efficiency, reduced energy consumption.
 Improved power factor correction, reduced infrastructural cost and VA requirement for the
- Reduced total harmonic distortion (THD), reduced power transmission loss and prevented equipment damages due to THD.
- Power supply status is more flexibly monitored and controlled in real time. Reduced circuit components, enhanced system reliability.

- Power Efficiency improved 5% 10% at lighter load [chart]
- Power Factor gained 5% 10% at lighter load [chart]
 Ourrent THD reduced by 15%, power transmission loss [chart]
- Real-Time Monitoring & Enhanced System Reliability



SuperCompact Short-depth Power Supply



PWS-406P-1R

Only 8.66" in length!

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400W (1+1) Redundant SuperCompact Short-depth AC-DC Goldlevel power supply with PMBus and I2C

AC Input 400W: 100-240 V, 50-60 Hz, 6-3 Amp DC Output +5V standby ■ 3Amp DC Output +12V ■ 33 Amp

■ +5V: 25 Amp With Power Distributor

+3.3V: 25 Amp -12V: 0.6 Amp

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