Supermicro 33kW Power Shelf

Standard 19" 1RU Solution for High-Efficiency Power Distribution

Efficient, Resilient Power Delivery for Extreme AI Workloads

- **Product Features:**
  - 6x 5500W PSUs with PMC
  - Ruby Level certified high-efficiency with 97.5% peak efficiency
  - PMC PoE with Redfish® support
  - Supermicro Management Tools support
- **Application:**
  - GB300, GB200, B300, and other AI servers
  - ORv3 applications

High-Efficiency Power for High-Density AI Servers

The Supermicro 33kW Power Shelf is specifically designed for AI and high-density server applications. It comprises six ultra-high efficiency 5500W Ruby Level certified PSUs with 97.5% peak efficiency, along with a dedicated power management controller (PMC). This combination delivers superior AC to DC power conversion efficiency, while the integrated bulk capacitor energy storage helps minimize AC current swings during intensive AI workloads. Compatible with systems supporting GB300, GB200, B300, and other AI-focused hardware — as well as ORv3 applications — the Power Shelf helps reduce space requirements within the server chassis. This compact design frees up additional room for improved airflow and other critical components.

Comprehensive Remote Management Support

The Power Shelf includes a 1GbE Ethernet port with PoE functionality and supports comprehensive remote management through Web GUI, Redfish, and IPMI interfaces. It is also equipped with communication modules and ports that enable integration with Supermicro SAA and the full management software suite, providing flexible and powerful power management options for modern data centers.

Power Shelf

Dimensions	448 (W) x 718.5 (D) x 43.6 (H) mm
Output Power (Max)	33kW (6+0) 27.5kW (5+1)
Output Voltage	50Vdc
Input Voltage Range	200-277V L-N 346-480V L-L
Input Frequency	50/60Hz
Input Connector	Single 60A AC Whip
Safety Standards	UL 62368-1
EMC Standards	Class A
Output Connector	ORv3 Barklip Connector
Cooling	Air cooled by PSU fans
Operating Temperature	-5℃ to 45℃

Bare Power Shelf (Left Inlet)

Bare Power Shelf (Right Inlet)

Power Shelf Components

Component	Bare Power Shelf (Left Inlet)	Bare Power Shelf (Right Inlet)	Power Module	PMC Communication Module	21" ORv3 Rackmount Bracket (optional)
Part Number	PWS-PS33K2-03	PWS-PS33K2-03-R	PWS-5K52G-1R	PWS-PMC02-03	SRK-00AS-992
Quantity per Power Shelf	1	1	6	1	1

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