

# High-power power supply for AI servers





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### **Infineon 12-kW High-Density PSU Reference Design**

A new 12-kW reference design for high-performance power-supply units (PSUs) from Infineon Technologies is specifically designed for AI data centers and server

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### **Nvidia B300 AI server prices double in China amid US curbs**

Nvidia's high-end B300 AI servers are now selling for about \$1 million in China, nearly double their US price, as tighter US export controls and smuggling crackdowns choke grey-market

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## **Murata Publishes Power Delivery Guide for AI Servers**

Murata has released a new technical guide on power delivery networks (PDNs) for AI servers in next-generation data centers, focusing on improving

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## **Infineon: Architecture for power supply in AI servers of**

This revolutionary step paves the way for the introduction of advanced power supply architectures in high-performance data centers for even faster AI computing and

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## **Why liquid cooling will dominate AI data centres in 2026**

As AI power demands surge into 2026, liquid cooling is becoming the essential technology keeping data centres efficient, stable, and future-ready.

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## **AI is poised to drive 160% increase in data center power**

Goldman Sachs Research estimates the overall increase in data center power consumption from AI to be on the order of 200 terawatt-hours per

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## **High-Density and High-Efficiency 8.0 kW Power Supply Unit for AI**

In this paper a complete 8.0 kW AC/DC power supply unit (PSU) for Artificial Intelligence (AI) server and datacenter applications is discussed, addressing design

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## **Axe series 2U GPU Servers**



The AXE-7220 series comprises compact 2U short-depth AI GPU servers built for high-performance edge computing. Each model integrates powerful single-socket

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## **High-Density Power for the AI Revolution**

An AI data center server power supply built using devices such as GaNSafe can achieve significantly better performance and support enhanced system safety and reliability versus a unit that utilizes

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## **Bloom Energy offers 800V DC power solutions for AI**

As AI data center energy consumption continues to surge, Nvidia has introduced a high-voltage direct current (HVDC) architecture aimed at reducing

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## **AI data center growth: Meeting the demand , McKinsey**

But even if all currently known plans are delivered on time, there could still be a data center supply deficit of more than 15 GW in the United States alone

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## **Meeting the Demanding Energy Needs of AI Servers with Advanced**

Explore how innovations in power devices, gate drivers, and DSP-based controllers tackle AI servers' high energy demands, optimizing efficiency in data centers.

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## **Chroma 63200A High Power DC Electronic Load**

The 63200A series high power DC electronic loads are designed for testing a wide range of power conversion products including AC/DC and server power supplies, DC/DC



converters, EV batteries,

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## **Delta targets next-gen AI data centers with 800V DC**

OCP Summit: AI data centers embrace high-voltage power and liquid cooling Liquid cooling for AI servers struggles with power, infrastructure, and

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## **Memory Wall Bottleneck: AI Compute Sparks Memory**

AI memory wall is driving HBM and DDR5 demand, sparking a supercycle in 3Q25. Capacity shortages force devices to hike prices or cut specs.

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## **Discrete Vertical Power Delivery Solutions for High-Current AI Loads**

Vertical power delivery modules replace lateral PDNs, efficiently powering high-current AI processors from directly beneath the package.

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## **AI to drive 165% increase in data center power demand**

The AI-dedicated data center is an emerging class of infrastructure. Although very few exist so far, they're designed for the unique properties of AI

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## **AI PSU , Infineon Technologies**

The ever-increasing power demand driven by AI data centers is forcing an expedited evolution of power supply units (PSUs) designs, growing from 800 W to an astounding 12 kW, with projections heading

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## **Understanding Data Center Power Distribution**

Trust Thompson Power Systems for Continuous Data Center Power Ensure uninterrupted power distribution for your data center with dependable equipment

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## **POWER ICs FOR AI SERVERS Selector Guide**

High Efficiency, Compact DC/DC Regulators Optimize Power Delivery ited for AI server power architectures. Models such as the SiC461, SiC431, and SiC450 offer wide input voltage ranges, high

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## **High-Voltage Data Centers: AI Driving 48V and Beyond**



The proliferation of AI has significantly reshaped data center infrastructure, pushing the limits of power systems to meet unprecedented

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## **Memory Outlook Report 2026 , TechInsights**

The TechInsights Memory Outlook Report 2026 delivers expert forecasts on DRAM, NAND, and emerging memory technologies. Discover how AI, HBM,

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## **STMicroelectronics expands 800 VDC AI datacenter power conversion**

The expansion to 12V and 6V output stages reflects the industry move toward different server architectures requiring different power delivery topologies depending on GPU generation,

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## **Update: 800 V HVDC for AI data centers thanks to 6 kW,**

800V HVDC architecture for AI data centers: how ST power solutions deliver 6 kW to 18 kW server power with higher efficiency and power density.

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## **Infineon unveils roadmap for power supply units in AI**

By introducing what is described as unprecedented PSU performance classes, Infineon is enabling cloud data-center and AI server operators to reduce their

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## **AI server boom drives MLCC prices higher as Murata, Samsung split**



AI server boom drives MLCC prices higher as Murata, Samsung split market Tight supply of high-grade MLCCs for power-hungry AI servers lifts prices as Murata and Samsung dominate

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## Global AI High Power Server Power Supply Market 2026

Between 2024 and 2026, strategic momentum in AI high power server power supplies increasingly centered on enabling higher power density and better thermal/electrical performance for

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