

In 2023, U.S. data centers collectively consumed 176 TWh, equivalent to powering 16 million homes for an entire year. Why do AI applications use so much more electricity than regular computing? AI ...

To understand where each technology fits into the present and future landscape of AI power delivery, we'll take a closer look at how Infineon's power-supply designs have evolved to address the ever ...

Each server rack within the data center necessitates a Power Supply Unit (PSU) to facilitate power delivery. The PSU is designed as a combination of a Power Fac.

This blog post explores innovations in power devices, gate drivers and advanced controllers with Digital Signal Processing (DSP) capabilities to meet AI servers' power and efficiency ...

The SEAB Working Group on Powering AI and Data Center Infrastructure has examined options for supporting these growing power demands reliably and affordably without harming existing customers ...

The power density of AI server cabinets has skyrocketed from the previous 10-20 kW to hundreds of kilowatts or even megawatts. The traditional UPS power supply architecture has low ...

As the reliance on AI technologies grows, it is imperative for data centers to adapt by upgrading power distribution systems, enhancing cooling solutions, and investing in energy-efficient ...

Discover power for AI data centers requirements, including AI compute energy usage, GPUs vs. CPUs power needs, and infrastructure strategies.

AI's computational needs are growing more than twice as fast as Moore's law, pushing toward 100 gigawatts of new demand in the US by 2030. Meeting this demand could require \$500 ...

Understanding the characteristics of AI data center loads and their interactions with the grid is therefore critical for ensuring both reliable power system operation and sustainable AI development. This ...

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