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Title: 400V Industrial Server Racks in Xiong'an New Area

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Is 400-v DC distribution inevitable?

In this exclusive Q&A, Vicor contends that 400-V DC power distribution to AI racks in data centers is inevitable. The demand for increased compute density. An evolution to 400-V DC distribution to next-generation AI/ML supercomputer racks to meet that demand. Challenges and solutions in making the move to 400-V DC distributed power.

What is Xiong'an New Area?

The Xiong'an New Area has been designed to take on functions transferred from Beijing that are not essential to its role as China's capital. In Xiong'an, dubbed China's "city of the future," sci-tech innovation and industrial development synergistically promote each other.

Should hyperscalers adopt 400-v DC distribution to Next-Generation AI supercomputer racks?

To increase compute density and to deal effectively with the prospect of racks that consume up to 140 kW or more, hyperscalers are now advocating an evolution to 400-V DC distribution to next-generation AI supercomputer racks.

How much power does an AI rack need?

Assuming 140 kW per AI rack, this is 350 A at 400 V DC and 175 A at 800 V DC. Currents as high as 350 A likely require 500 MCM gauge copper cable (380 A ampacity at 75°C), while current of 175 A likely requires 3/0 AWG copper cable (200 A ampacity at 75°C).

With the rapid development of cloud computing and mobile internet services, the rapidly increasing density of IT servers and energy consumption have posed many challenges to traditional data ...

By Rack Size: Full Racks Drive Hyperscale Standardization Full racks accounted for 67.9% of 2024 demand, and their 15.4% CAGR underscores hyperscale operators' preference for ...

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This network has fully incorporated 400V low-voltage power distribution equipment into the monitoring range, greatly enhancing the reliability of the power supply in Xiong"an New Area and ...

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A staff member of a sci-tech company in Zhongguancun Science Park demonstrates an industrial robot in Xiong"an New Area, north China"s Hebei Province, March 26, 2025. [Photo/Xinhua] ...

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