



DC Turnkey Project for Data Center Racks in Workshops

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Can DC power improve data center efficiency?

DC Power for Improved Data Center Efficiency: The objectives of this demonstration project are to develop and demonstrate a power delivery system that does not contain as many power conversion stages using existing equipment and vendors where possible. This project implemented a power delivery system that distributes DC to the server racks.

Do data centers run on DC?

Data centers adopted many things from telecoms, including the ubiquitous 19-inch rack. But even though electronics run on DC, data centers distribute power by AC. "We actually still see 48V negative return DC style equipment inside Equinix legacy sites and facilities," says Truong.

Can a data center server rack be powered by a DC power supply?

Most data center server racks are not currently powered this way, but with the advent of servers on the market that can operate with either AC or DC, it is possible to use the DC powering approach, thus eliminating extra power conversion steps and losses.

How do data centers distribute power?

But data centers distribute power by AC. This is because the equipment going into data center racks had been previously designed to plug into AC mains, says Truong: "Commodity PCs and mainframes predominantly used either single phase or three phase power distribution," he says.

This project implemented a power delivery system that distributes DC to the server racks. The system used a single rectification stage, thereby removing the conventional UPS, transformer, and the ...

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KNA is well-versed in the turnkey electrical, mechanical, and general construction aspects of Data Centers with an expertise in power quality and precision cooling.

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