



After-sales service for AC DC integrated data center racks in the United States

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Do data centers use AC or DC power?

Data centers adopted many things from telecoms, most notably the ubiquitous 19-inch rack, which was standardized by AT&T way back in 1922. Now, those racks hold electronic systems whose guts - the chips inside the servers - fundamentally all run on DC power. But data centers distribute power by AC.

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.

What holds back DC racks?

One of the things holding back DC racks is lack of knowledge, says Vito Savino of OmniOn Power: "One of the barriers to entry for DC in data centers is that most operators are not aware of the fact that all of the IT loads that they currently buy that are AC-fed are also available as a DC-fed option.

How can a DC distribution system help a data center?

DC distribution system. Practical techniques are available for mitigating most of these limitations. For example, data centers can protect loads using arc fault detection and new fault-limiting PDUs. Specialized training and personal protective equipment (PPE) can be provided to personnel that maintain and install DC equipment.

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