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Is 12 kW enough for a data center?

According to AFCOM's 2024 State of the Data Center Report, average rack density now sits around 12 kW. That's 2x the 6.1 kW per rack they initially reported in 2016. Despite doubling average density in just eight years, 12 kW still isn't enough. Data center operators are being asked to support 30 kW+ per rack.

What percentage of data centers have less than 10kW racks?

It's important to note that 37 percent of data centers still have racks of less than 10kW. There are three key reasons why these data centers have not seen substantial increases in rack density. Server virtualization has been around for decades, and containerization has been used for several years.

What is a data center rack density?

As a result, data center rack densities are increasing. Rack density refers to the amount of power consumed by all of the IT equipment in the rack. For many years, rack densities averaged 2kW to 5kW. That's not the case anymore. According to AFCOM's 2024 State of the Data Center Report, average rack density now sits around 12 kW.

Why do data center operators need more rack density?

Data center operators are being asked to support 30 kW+ per rack. Greater rack density offers key benefits, such as the ability to pack more computing power in a smaller space and expand vertically rather than horizontally. However, it also creates various challenges for data center operators. What's Driving the Increase in Rack Densities?

The PG series 3-Phase PDU s are perfectly suited to server rack installation requiring energy-efficient power distribution to high-density IT equipment in a server room or data center.

The growth of the High Density Rack PDU 30 kW market is propelled by the exponential surge in data center construction and upgrades, particularly in response to the relentless rise in data ...

ACDC 30kW Liquid Cooling Load Bank--From the perspective of the development of the entire data center industry, "liquid cooling" technology is the most reliable and feasible ...

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