

Parameters of the rack in Indonesian data center

Article Overview

Typical data center racks in Indonesia measure 2 feet wide by 4 feet deep, support up to 3,000 pounds, and are integrated into hot-aisle containment layouts with raised floor considerations.

Rack Dimensions and Weight Capacity

A standard data center rack in Indonesia generally measures 2 feet (0.61 m) in width and 4 feet (1.22 m) in depth, with a weight capacity of 3,000 pounds. The rack itself weighs approximately 300 pounds, resulting in a live load of about 412.5 psf on the floor footprint . These racks are designed to accommodate servers, networking equipment, and power distribution units (PDUs) while maintaining structural integrity.

Layout and Containment

Racks are often arranged in Hot-Aisle Containment (HAC) modules, which optimize airflow and cooling efficiency. The width of the access space and the HAC structure depends on the data hall design and tenant requirements. For example, a typical floor module may occupy 16 x 20 feet, with multiple racks organized within this white-space area . The HAC structure itself can weigh up to 2,000 pounds, adding to the total load on the raised floor.

Raised Floor and Load Considerations

The raised access floor (RAF) in Indonesian data centers typically weighs around 12 psf, equivalent to 3,840 pounds over a 16 x 20-foot area. Additional loads include PDUs, LAN or fiber optic cabling, occasional maintenance equipment like manlifts, and personnel, which can collectively add several thousand pounds . The total load in such a module can reach approximately 77,340 pounds, or 240 psf, which is about 60% higher than the minimum specified by ASCE standards.

Rack Types Available in Indonesia

Local suppliers, such as Indorack, provide a variety of rack types to meet different operational needs, including wall-mount racks, closed racks, open racks, and smart racks, all adhering to industry standards . These racks support the growing IT load in Indonesia, which is projected to reach over 1,400 MW by 2029, with more than 218,000 racks expected to be installed across the country .

Power and Networking Integration

Racks are equipped with PDUs and cabling infrastructure, often installed under the raised floor. This setup

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ensures efficient power distribution and network connectivity while maintaining accessibility for maintenance. The design also accounts for collateral loads from utilities such as chilled water lines and main power cabling .

Summary

In summary, Indonesian data center racks are structurally robust, standardized in size, and integrated into carefully planned containment and raised floor systems. They are designed to handle high-density IT loads, support sustainable operations, and accommodate future growth in cloud, AI, and 5G-enabled services .

The Indonesia Data Center Market worth USD 1.83 billion in 2026 is growing at a CAGR of 13.71% to reach USD 3.48

Temukan berbagai produk Indorack seperti Rack Server, Wallmount Rack, Open Rack, Audio Rack, Device Charging Rack, Smart

Comprehensive selection of accessories designed to organize power or data cables within a rack or enclosure. Robust rack

Indonesia's data center rack market functions as a geographic-arbitrage play where operators exploit faster permitting velocity in

Indonesia Data Center Rack Market Size and Forecast Indonesia Data Center Rack Market size was valued at USD 2.57 Billion in

6Wresearch actively monitors the Indonesia Data Center Rack Market and publishes its comprehensive annual report, highlighting

DCI Indonesia, BDx Indonesia and Telkom Indonesia rank among the leading data center operators by capacity across Indonesia.

Data center foundations: A comprehensive guide on how to choose the right rack cabinet

The Indonesia Data Center Racks Market can expand by meeting rack infrastructure needs in Sumatra, Kalimantan, Sulawesi, and

The size of the Indonesia Data Center Rack Market market was valued at USD XX Million in 2024 and is projected to

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How to size, lay out, and cool data center server racks the right way. A practical guide to

Data Center Wowrack Data center Wowrack Indonesia berlokasi di dua kota terstrategis di Indonesia, yakni Jakarta, di daerah

Apa ukuran standar rak data center di Indonesia? Ukuran standar yang paling umum adalah 42U dengan lebar 600

What's the best server rack size for your data center? That's a simple question with a complicated answer. Today,

The surge in power density to 100+ kW per rack in data centers is both an evolution and a

Indorack menyediakan rack server berkualitas untuk kebutuhan data center dan IT profesional. Tersedia wallmount rack, close rack,

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