

Article Overview

Intelligent Power Distribution Cabinets typically conform to standard rack sizes, with heights ranging from 0U to full 42U, widths of 19 inches, and depths between 200 mm and 600 mm depending on the model.

Standard Form Factors

Most intelligent PDUs and smart cabinets are designed to fit standard 19-inch racks, which is the industry norm for data centers and server rooms . The height is measured in rack units (U), where 1U equals 1.75 inches (44.45 mm). Common configurations include:

- o 0U or vertical mount PDUs: Mounted alongside the rack, saving horizontal space. Height can match the full rack (e.g., 42U) .
- o 1U to 2U PDUs: Horizontal rack-mounted units, typically installed at the top or bottom of a server rack .
- o Full cabinet PDUs: Integrated into a dedicated power distribution cabinet, which may range from 600 mm to 800 mm wide, 2000 mm to 2200 mm tall, and 600 mm to 1000 mm deep, depending on manufacturer and capacity .

Depth and Width Considerations

- o Width: Standard 19-inch rack width (approx. 482.6 mm) is common, but some industrial or edge cabinets may use 23-inch racks.
- o Depth: Varies by application; shallow cabinets (~200-400 mm) are used for edge deployments, while deeper cabinets (~600-1000 mm) accommodate full server racks and cable management .

Additional Features Affecting Dimensions

- o Integrated monitoring modules: Some iPDUs include environmental sensors, meters, and network modules, which may slightly increase depth or require additional vertical space .
- o Cable management and cord rotation: Features like 360° cord rotation or daisy-chaining multiple PDUs can influence the required clearance around the cabinet .
- o Zero-U designs: Some intelligent PDUs are mounted vertically along the side of the rack, minimizing horizontal space usage while still providing full monitoring and switching capabilities .

Summary

While exact dimensions vary by manufacturer and model, most intelligent power distribution cabinets are designed to fit standard 19-inch racks, with heights from 0U to 42U, depths from 200 mm to 1000 mm, and



Dimensions of Intelligent Power Distribution Cabinet

widths around 19 inches. When planning installation, it is important to check the specific product datasheet for precise measurements, clearance requirements, and mounting options to ensure compatibility with your rack or server room layout .

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The TPD48202B-N20B6 is a -48V intelligent power distribution cabinet by HUAWEI with a maximum DC

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The Intellinet Network Solutions 19" Intelligent 8 Port PDU provides your system

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Dimensions of Intelligent Power Distribution Cabinet

from high-quality

The Power Quality Monitoring Method of Intelligent Power Distribution Cabinet Qiang Gao 1, Feng Yuan 1,a, * Bing Li

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