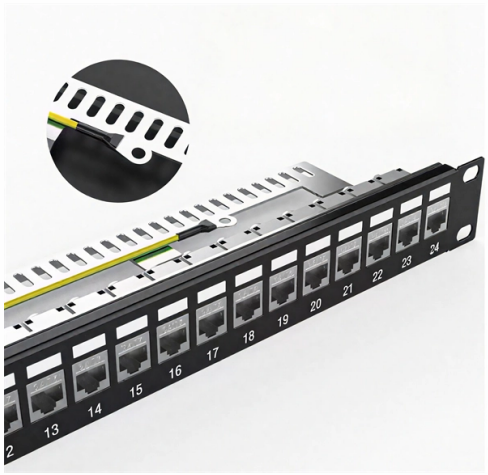
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Complete set of household electrical distribution boxes in South Sudan



Overview

Sudan power strips and PDU power distribution units for surface mount, rack mount and general purpose applications.

Key Takeaways

Household electrical distribution boxes in South Sudan typically require robust enclosures rated for 220–415V, with IP protection, multiple circuit ways, and essential safety features for residential use.Voltage and Capacity

Residential distribution boxes in South Sudan are generally designed to handle 220–415V, accommodating standard household electrical loads and small commercial setups . The number of circuit ways varies, with common configurations including 6-way, 12-way, or more, depending on the number of circuits and appliances in the household . For small homes or temporary housing, Ready Boards with pre-wired circuits are often used, providing basic power distribution for two rooms or less .

Environmental Protection

Given South Sudan's climate and infrastructure challenges, distribution boxes should have IP-rated enclosures to protect against dust and water ingress. For example, the Tronic 12-way IP67 enclosure offers complete protection against dust and immersion in water, making it suitable for outdoor or semi-exposed installations . For indoor residential use, IP44 or higher is recommended to ensure safety from accidental splashes and dust.

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Safety Features

Essential safety features for household distribution boxes include:

• Main Switch: Controls overall power supply, allowing safe disconnection .

• Circuit Breakers: Automatically disconnect circuits in case of overload or short circuit .

• Earth Leakage Protection (RCCB): Protects against electric shocks and leakage currents .

• Proper Earthing: Mandatory for all installations to prevent electrical hazards .
Installation Considerations
• Boxes should be installed in dry, well-ventilated locations, away from water and flammable materials .

• Installation must be performed by a qualified electrician, following local codes and regulations .

• For pre-wired Ready Boards, only an earthing connection is required, simplifying installation in areas with limited infrastructure .

• Ensure proper sealing and mounting to maintain the IP rating and protect components from environmental hazards .
Context in South Sudan

South Sudan's electricity distribution is still developing, with limited grid coverage and high system losses in urban centers like Juba . Many households rely on off-grid or mini-grid solutions, making compact, pre-wired distribution boxes practical for rapid deployment . For permanent residential installations, traditional distribution boards with multiple circuits and comprehensive protection mechanisms are preferred, especially in areas connected to the main grid .

Summary

For household use in South Sudan, distribution boxes should:

• Support 220–415V systems.

• Include multiple circuit ways (6–12 or more).

• Have IP-rated enclosures (IP44–IP67 depending on exposure).

• Feature main switches, circuit breakers, and earth leakage protection.

• Be installed by qualified personnel in compliance with local safety standards. These specifications ensure safe, reliable, and durable electrical distribution for residential settings, whether connected to the grid or off-grid solutions.

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