

Power Socket Distribution Box



Overview

Power Distribution Box, 110V Electricity Meter Electrical SAFE AND RELIABLE: This power outlet box comes with 4 NEMA 5-20 IP44 Power Distribution Boxes in.

Key Takeaways

A power socket distribution box is a device that safely distributes electrical power from a main supply to multiple outlets, often with built-in circuit protection and waterproofing for industrial or construction use.

A power socket distribution box is designed to distribute electricity from a single input source to multiple output sockets, allowing several devices or tools to operate simultaneously. These boxes are commonly used in construction sites, workshops, factories, and industrial plants where multiple high-power devices need safe and reliable power access .

Key Features

- **Voltage and Current Ratings:** Distribution boxes come in various ratings, such as 110V with a maximum load of 60A or 230V/400V for European applications, supporting branch circuits up to 20A or higher .
- **Circuit Protection:** Most boxes include circuit breakers, residual current devices (RCDs), or leakage protection to prevent overloads and electrical hazards .
- **Socket Types:** They may feature NEMA 5-20, Schuko, or CEE sockets, depending on regional standards and application needs .

- **Waterproofing and Durability:** Many boxes are made from impact-resistant ABS or plastic, with IP44 to IP65 ratings, protecting against dust, water splashes, and harsh environmental conditions .

- **Installation:** Options include wall-mounted or portable units. Wall-mounted boxes are pre-wired and require professional installation, while portable socket distributors can be connected downstream of a main distribution cabinet for temporary setups .

Applications

- **Construction Sites:** Powering hand tools, lighting, and machinery safely with multiple outlets.

- **Workshops and Factories:** Distributing electricity to equipment while ensuring overload protection.

- **Industrial Plants:** Decentralized installation close to the load for efficient energy management and reduced cable runs .

- **Temporary Events or Outdoor Use:** Portable boxes with waterproof sockets allow safe outdoor power distribution .

Safety and Compliance

- **Professional Installation:** High-current boxes require wiring by qualified electricians to ensure safety .

- **Standards Compliance:** Many boxes comply with IEC 61439, DIN VDE 0100, or ETL certification, ensuring reliable performance and protection against electrical hazards .

- **Pluggable and Modular Design:** Some modern boxes allow modular installation, enabling easy expansion or replacement of sockets and breakers .

Summary

A power socket distribution box is an essential tool for safely managing multiple electrical connections in industrial, commercial, or construction environments. When selecting a box, consider voltage, current capacity, socket type, waterproofing, and compliance with safety standards. Proper installation and maintenance ensure reliable operation and protection for both equipment and personnel.

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