

Parameters of Temporary Power Distribution Box at Construction Site

Article Overview

A standard temporary power distribution box provides safe, modular, and code-compliant electricity for construction sites, typically featuring 230 V single-phase or 400 V three-phase outputs with protective devices and industrial plug systems.

Overview

Temporary power distribution boxes, also known as portable power cabinets or jobsite distribution boards, are essential for supplying electricity to tools, machinery, and lighting on construction sites. They are designed to handle frequent relocation, harsh environmental conditions, and variable load demands while maintaining safety and compliance with electrical codes .

Typical Features

- **Voltage and Phases:** Commonly provide 230 V single-phase and 400 V three-phase at 50 Hz or 60 Hz, depending on site requirements .
- **Plug Systems:** Use industrial-grade CEE plug connectors (16 A, 32 A, 63 A, 125 A) for reliable and waterproof connections .
- **Protection Devices:** Equipped with circuit breakers, residual current devices (RCDs), and ground-fault circuit interrupters (GFCIs) to prevent electrocution, short circuits, and equipment damage .
- **Enclosure Rating:** Typically IP44 to IP67 rated for dust and water resistance, ensuring safe operation in wet or dusty conditions ...

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