

Construction Site Power Distribution Box Model and Specification Table

Article Overview

Construction site power distribution boxes are rugged, portable units designed to safely distribute electrical power with capacities ranging from 16A to 63A, available in single-phase and three-phase configurations, and built to meet IP44/IK09 or higher safety standards.

Key Features and Specifications

Power Capacity and Phases: Construction site distribution boxes typically handle 16A to 63A and are available in single-phase 230V or three-phase 400V configurations, depending on the power demands of tools and machinery on site . Choosing the correct current rating ensures safe operation without nuisance tripping.

Sockets and Connections:

- o Standard models include 2P+T sockets for general tools.
 - o Advanced models offer P17 industrial sockets at 32A or higher for heavy machinery .
 - o Multiple outlets allow simultaneous connection of lighting, heaters, and power tools, with individual circuit breakers and RCD protection to isolate faults without shutting down the entire system .
- Safety and Compliance:**

- o Enclosures are typically rated IP44 for water resistance and IK09 for impact protection .
 - o Built-in 30mA differential switches and industrial-grade circuit protection enhance user safety .
 - o Many models comply with OSHA, NEC, and ENEDIS temporary connection requirements, ensuring regulatory compliance .
- Construction and Portability:**
- o Boxes are made from heavy-duty steel, aluminum, or high-grade resin, providing durability against mechanical impacts, weather, and corrosion .
 - o Features like stackable legs, built-in handles, and lightweight designs improve portability and ease of deployment .
 - o Some models include spring-loaded lids or removable covers to protect connections from rain and debris .

Additional Features:

- o Emergency stop buttons, IP2X terminal blocks, and pole-mounting options are available on certain models .
 - o Customizable input/output configurations allow integration with existing site infrastructure .
 - o Pre-wired versions reduce setup time and simplify commissioning .
- Model Examples:**
- o Trystar Tuff Box: Rugged, portable, customizable input/output, GFCI protection, stackable design, suitable for construction and industrial applications .
 - o One-Elec Site Boxes: IP44/IK09 rated, single-phase or three-phase, 16A-32A, with P17 industrial sockets and differential switches .
 - o Modipro Distribution Boxes: 16A-63A, multiple 230V/400V outlets, individual circuit breakers, RCD protection, mobile and fixed installation variants .

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Selection Considerations

When selecting a construction site power distribution box, consider:

- o Total power demand of all connected equipment.
- o Phase type (single vs three-phase) based on machinery requirements.
- o Number and type of sockets needed for tools and devices.
- o Environmental conditions to determine IP and IK ratings.
- o Portability and setup efficiency for frequent site relocations. By matching the box specifications to site requirements, you ensure safe, reliable, and efficient power distribution while minimizing downtime and electrical hazards.

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