

Construction power distribution box and electricity meter



Summary of Content

A construction power distribution box safely distributes electricity on worksites and often includes an integrated electricity meter to monitor consumption.

Purpose and Function

A construction power distribution box is designed to supply electrical power to a construction site, providing multiple outlets or terminal blocks for tools, lighting, and machinery while ensuring safety for workers and equipment . These boxes often include circuit breakers, leakage protection, and fuses to prevent overloads and electrical hazards . The integrated electricity meter allows site managers to monitor power usage and manage energy efficiently .

Key Features

- **Current Capacity:** Boxes are available in various ratings, typically from 30A to 400A depending on site requirements . Some portable boxes handle up to 80A input with branch circuit breakers rated at 20A .
- **Safety Protections:** Includes leakage circuit breakers, branch circuit breakers, and ETL or CE certifications to ensure compliance with safety standards .
- **Waterproofing and Durability:** Many boxes are made from ABS plastic or sheet metal, with IP54-IP65 ratings to protect against dust, rain, and splashes, making them suitable for outdoor use .



Article Content

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