

Lida Three-level Distribution Box for Construction Sites



Overview

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Key Takeaways

The Lida Three-Level Distribution Box is a modular, three-phase power distribution solution designed for safe, flexible, and durable use on construction sites. Overview

The Lida Three-Level Distribution Box is engineered for construction site environments, providing a reliable hub for distributing electricity to tools, machinery, and temporary lighting. It is a three-phase system, suitable for heavy-duty equipment and multiple high-amperage circuits, making it ideal for medium to large construction projects .

Design and Structure

- **Three-Level Modular Design:** The box features three distribution units mounted inside a protective mesh cover, allowing each unit to slide independently. This modularity enables easy transport, installation, and maintenance without disrupting other circuits .
- **Protective Cover:** The mesh-structured cover prevents collisions, falling, and external damage, enhancing safety and stability on-site .
- **Locking Mechanism:** Integrated locks secure each distribution unit, preventing accidental disconnection and ensuring operational safety .

- **Cable Management:** Staggered partition plates and S-shaped storage grooves inside the main body organize and secure cables, reducing clutter and minimizing the risk of electrical hazards .

Materials and Durability

- **Construction:** Made from cold-rolled steel or stainless alloy, providing corrosion resistance and mechanical strength .
- **Weather Resistance:** Designed for outdoor use with IP55 or higher protection, safeguarding against dust, moisture, and light water jets .
- **Impact Resistance:** The enclosure is built to withstand mechanical shocks and vibrations common on construction sites .

Electrical Features

- **Three-Phase Compatibility:** Supports three-phase AC supply, typically 400V, suitable for powering heavy machinery and multiple circuits simultaneously .
- **Circuit Protection:** Equipped with integrated circuit breakers or block terminals to prevent overloads, short circuits, and electrical hazards .
- **Flexible Configuration:** Can be customized with various control components, mounting plates, and locking systems according to site requirements .

Applications

- **Construction Sites:** Temporary power distribution for tools, lighting, and machinery.
- **Outdoor Events or Temporary Facilities:** Provides safe, portable electricity for short-term setups.
- **Industrial Use:** Can be adapted for commercial or manufacturing environments requiring modular three-phase distribution .

Key Advantages

- **Safety:** Protective mesh, locking mechanisms, and IP-rated enclosure reduce risk of electrical accidents.
- **Portability:** Modular design allows easy relocation and maintenance.
- **Durability:** Resistant to dust, moisture, and mechanical impact, ensuring long-term reliability.
- **Customizable:** Supports different sizes, materials, and internal configurations to meet specific site needs . The Lida Three-Level Distribution Box is therefore a robust, safe, and flexible solution for managing electrical distribution on construction sites, combining modularity, durability, and three-phase power capability for demanding environments.

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