

Largest electrical distribution box on the construction site



Overview

On a construction site, temporary power supply determines the safety of the entire team and the continuity of work.

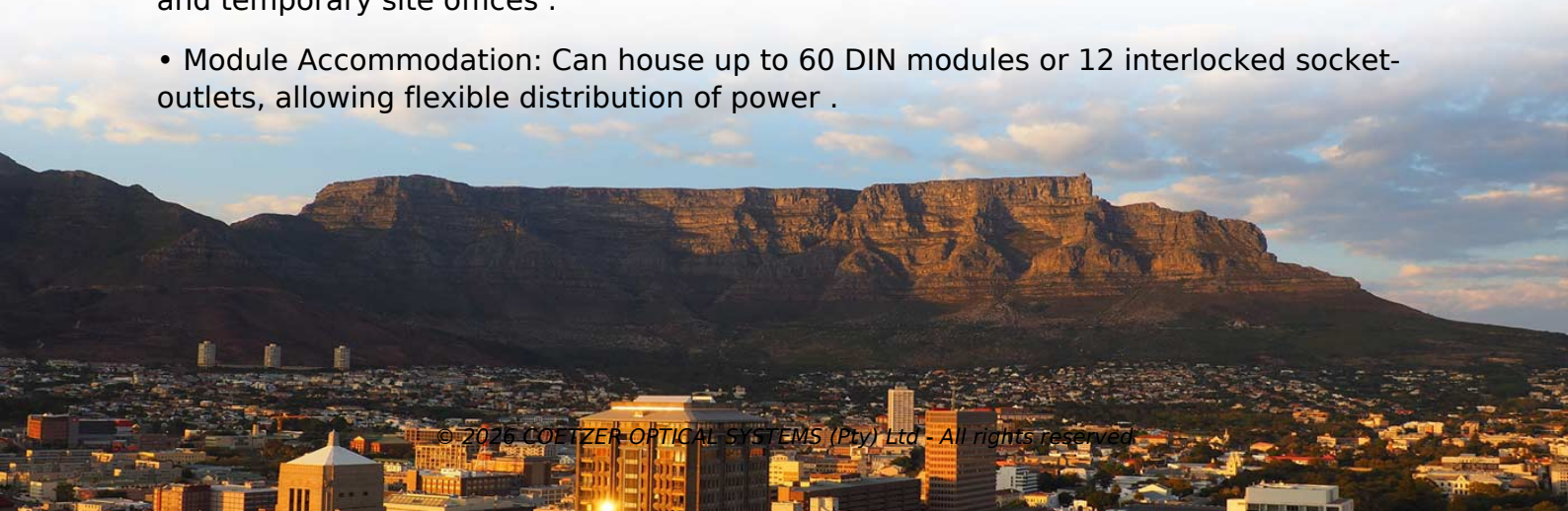
Key Takeaways

The largest construction site distribution boards can handle up to 130 kW (250A) and accommodate up to 60 DIN modules or 12 interlocked socket-outlets. Overview of Large Distribution Boards

On construction sites, the main supply boards serve as the primary connection point from the public grid to the site's electrical network. The largest boards, such as Gewiss Q-BOX ACS, are designed for high power levels up to 130 kW (250A), making them suitable for large-scale construction projects, shipbuilding sites, or temporary industrial setups. These boards are built to withstand harsh outdoor conditions, including impacts, UV exposure, and temperature variations.

Key Features

- Capacity: Up to 130 kW (250A) with multiple circuits for heavy machinery, lighting, and temporary site offices.
- Module Accommodation: Can house up to 60 DIN modules or 12 interlocked socket-outlets, allowing flexible distribution of power.



- **Construction:** Made from thermoplastic or technopolymer materials for impact and weather resistance, with some models featuring sheet steel housings for extra durability .
- **Mobility:** Many boards are floor-mounted, pole-mounted, or portable with handles and wheeled supports for easy relocation on site .
- **Safety:** Equipped with residual current devices (RCDs), miniature circuit breakers, emergency push-buttons, and lockable doors to ensure operator safety .
- **Standards Compliance:** Conforms to IEC 61439, IEC 60364, and IP ratings such as IP65, ensuring protection against dust and water ingress .

Types of Large Distribution Boards

- **Main Supply Boards:** Connect directly to the public grid and distribute power to secondary boards. Examples include Q-BOX6 and ENERGYBOX ACS .
- **Group or Terminal Distributors:** Feed multiple smaller boards or equipment clusters, often used for cranes, lighting, or temporary offices .
- **Pre-Wired Boards:** Ready-to-use boards with built-in socket-outlets and protection devices, reducing installation time and ensuring safety .

Practical Considerations

When selecting the largest distribution box for a construction site, consider:

- Total power demand of the site and peak load requirements.
- Number of circuits and socket-outlets needed for tools, lighting, and machinery.
- Environmental conditions, including exposure to rain, dust, and mechanical impact.
- Mobility requirements, especially for sites with changing layouts.
- Compliance with local electrical codes and safety standards. These large distribution boards are essential for safely managing high electrical loads on construction sites while providing flexibility, durability, and compliance with international standards.

Article Content

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Complete Guide: Construction Site Temporary Distribution Box

A temporary distribution box, also referred to as a portable power distribution panel, is a movable electrical assembly

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

