

Construction site power distribution box transformer



Overview

Portable Power Distribution We specialize in equipping construction sites and maintenance turnarounds with versatile portable power Construction Site Power.

Key Takeaways

Construction site transformers are designed to safely step down or step up voltage, providing reliable power for tools, lighting, and equipment in temporary or permanent site distribution boxes. Key Features



Voltage and Ratings: Construction site transformers typically provide Low Voltage (230V and 400V) or Reduced Low Voltage (110V) outputs, suitable for power tools and temporary lighting . They are available in single-phase and three-phase configurations, with ratings ranging from 5 kVA to 300 kVA, depending on site requirements . **Step-Down and Step-Up Options:** Transformers can step down from 230V/400V to 110V for safer operation of hand tools and lighting, or step up voltage for specific equipment needs . Continuous ratings ensure stable power delivery without overheating. **Portability and Enclosures:** Many transformers are housed in robust steel or thermoplastic enclosures, often with IP65 or higher protection, making them suitable for harsh construction environments . Portable models may include wheeled carts or skid bases for easy relocation around the site . **Safety Features:** Standard site transformers often include RCD protection, fused primary disconnects, and socket outlets to prevent electrical hazards . Compliance with IEC 61439 and IEC 60364 standards ensures safe operation in construction settings . **Integration with Distribution Boxes:** Transformers are designed to feed construction site power distribution boxes or spider boxes, providing multiple outlets for three-phase and single-phase equipment . Pre-wired or plug-in models allow quick connection to existing site power.

Practical Considerations

- **Sizing:** Choose a transformer based on the total load of tools and lighting on the site. For example, a 10 kVA single-phase transformer can support multiple 32A and 16A sockets .
- **Durability:** Enclosures should withstand impact (IK08–IK10) and weather exposure, ensuring long-term reliability .
- **Flexibility:** Portable transformers allow quick deployment and adjustment as the site layout changes .

Recommended Applications

- Temporary power for hand tools, lighting, and small machinery
- Feeding modular switchboards or quick-connect docking panels
- Sites requiring safe, reduced voltage operation for personnel protection
- Integration with generator power distribution systems for remote or off-grid sites By selecting a transformer with the appropriate kVA rating, voltage output, and enclosure protection, construction sites can ensure safe, reliable, and flexible power distribution for all temporary and permanent electrical needs.

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Construction | Trystar

Some construction sites may have a power supply line that differs from the machine's voltage

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

