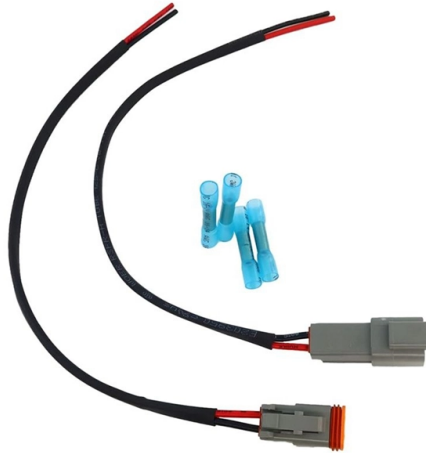


Distribution boxes used on construction sites



Article Overview

Construction site distribution boxes provide safe, organized, and weatherproof power distribution for tools, lighting, and temporary site operations.

Key Features

Safety and Protection: Modern distribution boxes include GFCI protection, circuit breakers, and emergency stop buttons to prevent electrical shock, overloads, and equipment damage, especially in wet or dusty environments . OSHA guidelines emphasize the importance of fast-acting ground-fault devices for temporary wiring setups . **Durable Enclosures:** Boxes are typically made from heavy-duty steel, powder-coated metal, or high-grade plastic. Steel offers impact resistance but may require grounding and rust prevention, while plastic is rust-proof and UV-resistant, ideal for coastal or harsh climates . **Power Capacity:** Common configurations include 30A and 50A inlets, supporting multiple outlets for 120V or 240V tools. A 30A system handles mid-sized generators up to 7,500 watts, while a 50A system can support up to 12,000 watts for high-demand equipment . Some boxes feature multiple twist-lock or NEMA receptacles for simultaneous connections . **Portability and Installation:** Many boxes are portable or elevated on stands to reduce cable clutter and protect against mud or water ingress. Pre-wired interiors simplify setup, and wall-mounted or freestanding options are available depending on site needs . **Customization:** Temporary power distribution boxes can be customized for project-specific requirements, including the number and type of outlets, internal wiring layout, and emergency controls. This ensures safer, cleaner, and faster deployment on diverse construction projects

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3□ The electrical components and leakage protectors used in the distribution box shall meet the quality requirements of the national

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