

Article Overview

Temporary distribution boxes provide flexible, safe, and portable power distribution for construction sites, events, and other temporary installations.

Overview

Temporary distribution boxes, also known as power spider boxes or installation distributors, are designed to supply electricity in locations without permanent power infrastructure. They serve as hubs to connect multiple electrical loads, offering multiple outlets and often including circuit breakers, residual current devices, and master switches for safety and load management .

Applications

- o Construction sites: Powering tools, lighting, and machinery where permanent connections are unavailable .
- o Events and exhibitions: Providing flexible power for lighting, audio-visual equipment, and temporary installations .
- o Emergency services and remote locations: Ensuring reliable electricity in temporary or mobile setups .

Types and Features

- o Stationary Distribution Boxes: Fixed units suitable for sites where the power source does not need to move frequently .
- o Distribution Carts: Mobile units mounted on heavy-duty frames with wheels for easy transport between locations .
- o Connector Systems: Many boxes use pluggable systems like Wieland's gesis(R) MINI, gesis(R) CLASSIC, or RST(R) for safe, fast, and error-free connections .
- o Outdoor vs Indoor Use: Boxes for outdoor use often have higher IP protection ratings (e.g., IP44 or IP65) to protect against dust and moisture .
- o Metering Options: Some temporary boxes can include multifunction meters to monitor electricity consumption and energy usage .

Advantages

- o Flexibility and mobility: Quick setup and dismantling, ideal for changing locations .
- o Safety: Integrated circuit breakers, residual current devices, and coded connectors prevent overloads and mismatches .
- o Scalability: Can be configured to handle different voltages and loads, sometimes up to 40 kVA for larger installations .
- o Durability: Designed for harsh environments, often using robust materials suitable for construction or



Temporary distribution boxes and meters

outdoor events .

Considerations

When selecting a temporary distribution box, consider:

- o Required load capacity and number of outlets.
- o Indoor or outdoor application and IP rating.
- o Mobility needs (stationary vs cart-mounted).
- o Compatibility with existing connector systems.
- o Optional metering and monitoring features for energy management. Temporary distribution boxes are essential for providing safe, reliable, and flexible power in temporary or mobile setups, making them indispensable for construction, events, and emergency applications .

The right distribution box that matches your power requirements, durability needs, and weather resistance will give optimal

Temporary power distribution boxes and carts serve as hubs to connect electrical loads and have multiple outlets to distribute power.

1. Definition and core functions The temporary power distribution box is a power distribution

Lex Products offers a full range of portable power distribution boxes and units, specifically engineered for

Temporary power distribution boxes usually cost anywhere between \$150 to \$1,500, making them a relatively

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