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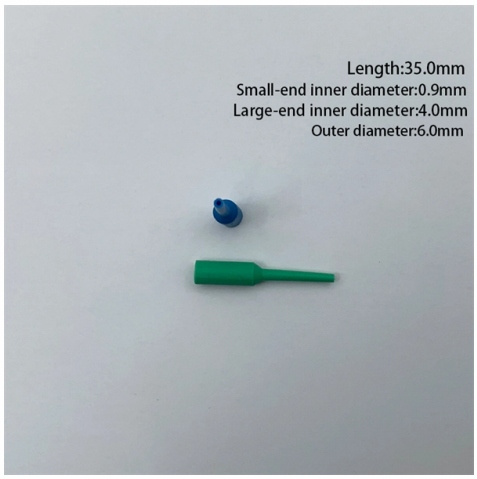
Model and Specifications of Temporary Distribution Box



Overview

How to Choose a Temporary Power Distribution BoxA practical guide on selecting the right temporary power distribution box: compare specs, safety features.

Key Takeaways

Temporary distribution boxes are portable electrical enclosures designed to safely route power in dynamic environments, with models ranging from 20A to 800A, featuring adjustable circuit breakers, multiple connector types, and compliance with IP, NEMA, and international safety standards.Overview

Temporary distribution boxes, also known as portable power distribution units, are essential for construction sites, events, industrial facilities, and hazardous environments. They serve as mobile hubs that divide main electrical feeds into multiple safe secondary circuits, protecting both equipment and personnel from electrical hazards while ensuring operational flexibility in changing locations .

Common Models and Series
• Lex Products Load Master™ Series: Designed for indoor and outdoor use, these units range from 20–800 Amps, feature 1, 3, or 4 adjustable circuit breakers, and allow adjustable output ratings to match specific load requirements. They are cULus listed to UL 1640 standards and built for rugged durability .

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• Wieland WIV Distribution Boxes: Available in 20 kVA or 40 kVA versions, these boxes use gesis®/RST® connector systems for fast, safe, and pluggable connections. They offer IP54 to IP69 protection, depending on the connector type, and are constructed according to IEC 61439 standards .

• Hubbell TP Distribution Boxes: These include straight blade and Twist-Lock® connectors, with 50A Twist-Lock® AC connectors, designed for contractor use with compact, space-saving designs .

Key Specifications

• Amperage Range: 20–800 Amps depending on model and application .

• Voltage Ratings: Typically configurable to match site requirements, often supporting standard industrial voltages.

• Circuit Breakers: Adjustable miniature or residual current circuit breakers; some models allow 1–4 breakers per unit .

• Connector Types: gesis® MINI, gesis® CLASSIC, RST® CLASSIC, Twist-Lock®, and straight blade connectors for indoor or outdoor use .

• Environmental Protection: IP54–IP69 ratings; NEMA 4X for corrosion resistance in harsh chemical or marine environments .

• Materials: Glass fiber-reinforced polyester (GRP) for corrosion resistance, copper-free aluminum alloy for heat dissipation and structural strength .

• Certifications: UL (North America), ATEX (EU), IECEx (international), ensuring safe operation in hazardous or explosive atmospheres .

Features and Advantages

• Portability: Compact, space-saving designs with nesting legs or racks for easy transport and storage .

• Safety: Fully enclosed live parts, emergency stop mechanisms, and harmonized protective devices reduce risk of electrocution and fire .

• Flexibility: Adjustable outputs, pluggable connectors, and modular designs allow rapid adaptation to changing site requirements .

• Durability: Engineered to withstand dust, moisture, temperature swings, and mechanical impacts common in construction and industrial environments .

Selection Considerations

When choosing a temporary distribution box, consider:

• Load requirements: Match amperage and voltage to site equipment.

• Environmental conditions: Select IP/NEMA ratings suitable for rain, dust, or chemical exposure.

• Connector compatibility: Ensure connectors match existing site infrastructure.

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• Safety certifications: Verify UL, ATEX, or IECEx compliance for hazardous areas.

• Mobility and installation: Evaluate ease of transport, assembly, and modularity . By carefully evaluating these specifications and models, engineers and contractors can ensure reliable, safe, and compliant temporary power distribution for any project.

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