Specifications of Mongolian Industrial Distribution Boxes

Overview

Mongolia is expanding its infrastructure and commercial development across urban and industrial sectors.

Key Takeaways

The XL-21 type low-voltage power distribution cabinet is a widely used industrial distribution box in Mongolia, designed for indoor industrial, mining, and civil applications.Overview

Mongolian industrial distribution boxes, such as the XL-21 series, are designed to manage and distribute electrical power safely and efficiently in industrial, mining, and civil environments. These cabinets are typically indoor, wall-mounted, and single-sided front-opening, allowing easy access for maintenance and operation . They are suitable for single-phase and three-phase systems with voltages below 500V and load currents up to 800A .

Key Specifications

- Rated Main Circuit Voltage: AC 380V
- Rated Insulation Voltage: AC 660V
- Rated Frequency: 50Hz
- Auxiliary Circuit Voltage: AC 220V or AC 380V
- Load Current: ≤800A

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• Protection Level: IP30, compliant with IEC 60439-1 and GB7251.1 standards

• Operating Temperature: -5°C to +40°C (24-hour average ≤36°C)

• Altitude: ≤2000 meters

• Relative Humidity: ≤50% at +40°C; up to 90% at +20°C

• Installation Tilt: ≤5° from vertical

• Environmental Requirements: Free from severe vibration, impact, and corrosive conditions

Structure and Components

The XL-21 distribution cabinet is constructed from bent steel plates and welded angle steel, providing a compact and durable structure. Key components include:

• Air Circuit Breakers and Fuses: For short-circuit and overload protection

• Contactors and Thermal Relays: For motor and load control

• Knife Switches: Optional, with operating handles on the front right side

• Operation Buttons, Indicator Lights, and Display Instruments: Mounted on the front door for monitoring and control

• Bus Bars: Conduct electricity from the main input to various circuits

• Grounding Screws: Ensure reliable grounding connection

Models and Customization

While the XL-21 is a standard model, manufacturers like SKKBO and Mulan Group offer customized industrial distribution boxes with options for:

• Explosion-proof designs for mining and hazardous environments (ATEX-certified)

• High IP ratings (IP66/IP67, NEMA 4X) for outdoor or harsh conditions

• Material options: Stainless steel, carbon steel, or ABS

• OEM/ODM support for specific project requirements, including size, circuit configuration, and additional functions

Applications

These distribution boxes are used in:

• Industrial plants and factories

• Mining operations

• Civil buildings, schools, and government institutions

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• Photovoltaic and renewable energy systems

• Commercial facilities requiring safe and efficient power distribution
Summary

Mongolian industrial distribution boxes, particularly the XL-21 series, provide robust, flexible, and safe solutions for electrical power distribution. They are designed for easy maintenance, high reliability, and compliance with international standards, with options for customization to meet specific industrial or environmental requirements. Manufacturers offer a wide range of models and materials to suit diverse applications, from standard industrial use to explosion-proof and high-protection environments.

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Electrical distribution boxes for modular power distribution and installation. Flexible distribution solutions for

Selection Recommendations for Industrial Plugs, Sockets, and

Industrial plugs, sockets, and distribution boxes are specifically designed for power connections and electrical

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The XL type low-voltage power distribution cabinet uses domestically designed new components. The enclosure is made of bent

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These high-performance electrical distribution boxes come equipped with multiple blue plug sockets, making them ideal for efficient

Power Distribution Boxes

Our boxes feature modular designs with flexible input/output configurations, high-quality circuit protection,

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