

China Standard Distribution Box



Overview

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Key Takeaways

Chinese standard distribution boxes are electrical enclosures designed to safely distribute power, manufactured according to GB7251.1 and related national standards, with options for IP-rated protection, material quality, and OEM customization.Overview

A distribution box (also called a distribution cabinet or panelboard) is an enclosure that houses electrical components such as circuit breakers, fuses, busbars, and terminal blocks. Its primary function is to divide a main electrical power feed into subsidiary circuits while providing overcurrent protection for each circuit, ensuring safety and efficient load management . In residential, commercial, and industrial applications, these boxes prevent power surges, equipment damage, and electrical hazards.

Chinese Standards



In China, distribution boxes are manufactured according to GB Standards (Guobiao Standards), with the most relevant being GB7251.1-2013, which covers low-voltage switchgear and controlgear assemblies. Compliance with the CCC (China Compulsory Certification) is mandatory for safety and export purposes. Chinese standards are largely based on IEC guidelines, but variations in terminology, testing methods, and documentation exist, so verifying technical datasheets and third-party test reports is recommended.

Materials and Construction

Distribution boxes in China are typically made from:

- Galvanized steel (SGCC/SPCC)
- Stainless steel (SS304/SS316)
- Aluminum alloy
- Flame-retardant plastics (PC, ABS, fiberglass) Material choice affects durability, insulation, and fire resistance. Powder coating or galvanization enhances corrosion resistance, especially for outdoor installations.

Key Technical Parameters

- IP Rating (Ingress Protection): Common ratings include IP54 for indoor use and IP65/IP66 for outdoor use, indicating protection against dust and water.
- Voltage and Current Capacity: Maximum continuous voltage, insulation withstand voltage, main busbar current, and short-circuit current ratings are critical for safe operation.
- Dimensions and Mounting: Sizes range from small wall-mounted boxes (e.g., 300x200x150 mm) to large floor-standing cabinets (e.g., 2000x800x600 mm). Mounting types include surface, flush, or floor-standing.
- Number of Ways/Modules: Refers to the number of circuit breakers or devices accommodated, typically using standard DIN rail modules (17.5 mm wide).

Customization and OEM Options

Chinese manufacturers often provide OEM/ODM services, allowing customization of:

- Circuit layouts and busbar configurations
- Cable entry modifications
- Branding and logo embossing
- Special enclosures for solar, wind, data centers, or EV applications

Compliance and Certifications

For international buyers, ensure the distribution box has:

- CCC certification for China
 - ISO9001 quality management
 - CE marking for European markets
 - Compliance with IEC 61439-1/2 or UL 508A for industrial control panels
- Summary

Chinese standard distribution boxes are versatile, safety-compliant enclosures suitable for residential, commercial, and industrial electrical systems. They are manufactured according to GB standards, with options for IP-rated protection, high-quality materials, and OEM customization. When sourcing, verify certifications, material quality, IP rating, and technical specifications to ensure compliance and durability.

Article Content

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

