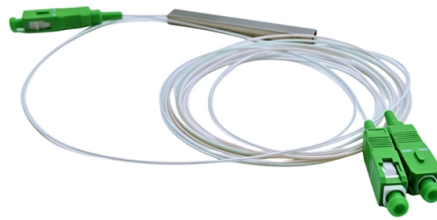


Specifications of Lighting Distribution Boxes in China and Africa



AI Overview

Lighting distribution boxes in China and Africa typically feature modular designs, IP-rated enclosures, and standardized electrical capacities to ensure safety, durability, and compliance with international standards.

Key Technical Parameters

Voltage and Current Ratings: Standard boxes support 220V–380V AC, 50/60Hz, with main busbars rated up to 100A. Short-circuit withstand ratings are specified to handle high fault currents for a short duration without damage, ensuring safety during electrical faults.

Enclosure Materials: Common materials include galvanized steel (SGCC/SPCC), stainless steel (SS304/SS316), aluminum alloy, and engineered plastics (PC, ABS, fiberglass). Outdoor boxes often feature powder coating or corrosion-resistant finishes to withstand harsh environments.

Ingress Protection (IP) Ratings: Indoor boxes typically have IP30–IP54, while outdoor or stage boxes may reach IP65–IP66, providing protection against dust, water splashes, and powerful water jets.

Modular Design and Capacity: Boxes are modular, accommodating 4–36 ways or modules, with standard DIN rail modules of 17.5mm width. This allows flexibility for circuit breakers, switches, and other devices.

Dimensions and Mounting: Sizes vary from small wall-mounted units (e.g., 300x200x150 mm) to large floor-standing cabinets (e.g., 2000x800x600 mm). Mounting options include surface, flush, or floor-standing installations.

Safety and Compliance: Components often use ABB or Schneider switches, and boxes comply with IEC, DIN EN, CEE, GB, and CB standards. Lockable stainless steel cabinets with inner and outer doors enhance security and maintenance safety.

Additional Features: Earth and neutral terminals for safe grounding. Bottom inlet/outlet with knock-out holes for cable entry. Visual monitoring for stage lighting applications. Anti-vibration and transport-resistant designs for portable stage boxes...

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