

Article Overview

Plastic distribution boxes in Senegal are typically made from flame-resistant or UV-resistant engineered plastics, with IP66 protection, compact designs, and compliance with national and international electrical standards.

Material and Construction

Plastic distribution boxes are generally constructed from ABS or heavy-duty UV-resistant engineered plastics, ensuring durability, impact resistance, and long-term resilience against harsh environmental conditions such as sun exposure and oxidation . Some models, like the SHPN series, feature ABS shells with PC doors, providing high dielectric strength and insulation voltage of $\geq 3.75\text{kV}$ and 1000V AC . Flame-resistant ABS is commonly used in modular series such as MB-ABC, MB-AF, and MB-AS, offering impulse-proof and excellent insulation properties .

Dimensions and Series

Distribution boxes come in various sizes to accommodate different installation needs:

- o MB-ABC Series:

- o MB-ABC500: 200 x 174 x 95 mm

- o MB-ABC700: 255 x 172 x 95 mm

- o MB-ABC900: 328 x 172 x 95 mm These boxes support modular combination equipment for AC 50Hz, rated voltage 220V/380V .

- o HA, HK, LGD Series: Dimensions range from 100-415 mm in length, 105-323 mm in width, and 75-140 mm in height .

- o SHPN Series: Compact, wall-mounted design optimized for space-limited areas, suitable for indoor and outdoor installations .

Protection and Standards

- o Ingress Protection: IP66, ensuring dustproof and waterproof performance .

- o Mechanical Resistance: IK09, providing impact resistance .

- o Compliance: Conforms to standards such as BS EN60439-3, JB/T7121-93, and national electrical installation requirements .

- o Safety Features: Double insulation, flame-proof materials, and proper earthing systems for operator safety .

Installation Guidelines

- o Fixed boxes should be installed 1.3-1.5 m above ground, while mobile boxes should be 0.6-1.5 m above ground .
- o Maintain a maximum distance of 30 m between distribution and switch boxes, and 3 m between switch boxes and fixed equipment .
- o Each electrical device should have a dedicated switch and residual current device (RCD) .
- o Reserved openings for incoming and outgoing wires must be sealed to Class 3 standards after assembly .

Applications

These plastic distribution boxes are widely used in residential, commercial, industrial, and public utility settings, including high-rise buildings, hospitals, airports, and outdoor distribution networks . Their design ensures easy installation, maintenance, and aesthetic integration into surroundings. Overall, Senegal's plastic distribution boxes combine robust materials, standardized dimensions, high protection ratings, and compliance with safety regulations, making them suitable for a variety of electrical distribution applications.

5. Application The Ex9XG series plastic distribution box is suitable for construction sites, outdoor charging stations parking lots,

Plastic Electrical Distribution Box is widely used in high-rise buildings, buildings, residential, community, railway stations, ports,

Senegal: Select plastic laws TECHNICAL SPECIFICATION Country Factsheet: Senegal Distribution boxes (plastic) | Sonderhoff

GSDB-4030 400x300x190 3 Phase Service Connection Distribution Box/ ABC Distribution Box 11.

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This document provides specifications for various distribution boxes including dimensions, mounting sizes, and number of ways. Fire

Tender TI Ref No : 484439863 Tender Date : 14 Mar 2023 Tender Description : Design Supply And

Assembly Of Electricity

Son coeur de production est centré sur une large gamme d'emballages plastiques, notamment les pots, seaux et casiers, ainsi que

IP66 plastic distribution box SHPN series has streamlined design, compact structure, easy installation,

Discover high-quality plastic distribution boxes designed for superior electrical protection and safety. Our durable, weather-resistant

63: Parameters for air interface communications at 860 MHz to 960 MHz Type C ISO 18616-2, Transport packaging -- Reusable,

This document provides specifications for various types of plastic distribution boxes, including their

Senegal's electrical distribution box The significant contract is part of a wider programme to expand Senegal's transmission and

Analyzes words to predict audience familiarity and provide insights as to how the use of the word may affect readability metrics.

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