

Standard Distribution Box Materials



Article Overview

Distribution boxes are commonly made from metals like steel and aluminum, plastics such as polycarbonate and PVC, and fiberglass, each chosen for durability, fire resistance, and environmental suitability.

Metal Materials

Steel is widely used for its strength and impact resistance, making it ideal for high-voltage, industrial, or outdoor applications. It can be galvanized or stainless to resist corrosion in wet or salty environments and provides shielding against electromagnetic interference. Aluminum is lighter than steel, naturally corrosion-resistant, and suitable for damp or outdoor locations, offering easier handling without compromising durability .

Plastic Materials

Polycarbonate (PC) and PVC are common thermoplastics used for indoor or low-voltage distribution boxes. They are lightweight, non-corrosive, and can be flame-retardant, often rated according to UL 94 standards. Thermoset plastics like SMC (Sheet Molding Compound) provide high mechanical strength, fire resistance, and stability in harsh environments .

Fiberglass and Composite Materials

Fiberglass-reinforced plastics are used in corrosive or marine environments due to their excellent resistance to rust, chemicals, and UV exposure. These materials maintain structural integrity under prolonged outdoor conditions and are often selected for industrial or coastal installations .

Key Considerations



Article Content

Distribution box | OBO

Protection rating IK code 16 products (16 Variants) 30 60 90 Item no. 2008840

Distribution box, 3 division units, with terminal strip,

What Is an Electrical Distribution Box? A Complete Guide

A suitable enclosure for a distribution box must prioritize durability and safety, utilizing materials that meet stringent industry

The Ultimate Guide to Distribution Box Types

Discover the key types of distribution boxes with NUOMAK's comprehensive guide. Learn about Main Distribution Boards (MDB),

DB BOX(Electrical Distribution Box): Everything You Need to Know

Learn everything you need to know about the Electrical Distribution Box (DB Box). Explore types, materials, installation

Complete Guide For Distribution Boxes Types

Distribution boxes, also known as electrical distribution boards or panels, are pivotal components in electrical systems, ensuring the

Distribution Box: Types and Functions | Axis-Electricals

A distribution box ensures that electrical supply is distributed in the building, also known as a distribution board, panel board, breaker

Distribution board

A distribution board (also known as panelboard, circuit breaker panel, breaker panel, circuit breaker, electric panel, fuse box or DB

Distribution Box

Our distribution boxes are perfect for industrial environments, catering to automation, robotics, and processing facilities. They provide

What Is a Distribution Box?

If you're going to buy a distribution box, there are several things you should look for. You should choose a distribution

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://yachtchartercapetown.co.za>

Email: info@yachtchartercapetown.co.za

Phone: +27 21 863 4927

Address: 1st Floor, The Towers, 1 St George's Mall, Cape Town, 8001, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

