

QDB type integrated power distribution box

Article Overview

A QDB type integrated power distribution box (PDB) is a centralized electrical unit that safely distributes power to multiple circuits while integrating protective and control components in a compact, modular design.

Overview

A QDB integrated power distribution box serves as the central hub for distributing electrical power from a main supply to multiple downstream circuits. It combines circuit protection, control, and monitoring in a single enclosure, ensuring both equipment safety and operational reliability. These boxes are commonly used in residential, commercial, industrial, and automotive applications .

Key Components

- **Circuit Breakers or Fuses:** Protect individual circuits from overloads and short circuits .
- **Power Distribution Blocks:** Split primary power into secondary circuits or provide fixed junction tap-off points, often with finger-safe insulation and modular DIN-rail mounting .
- **Control Components:** Relays, contactors, timers, and smart switches for automated or remote control of connected loads .
- **Monitoring and Communication:** Some QDBs include voltage/current monitoring, CAN/LIN interfaces, and integration with building or vehicle management systems

Article Content

Nov 22, 2025

Havells Distribution Board: Efficient Power Distribution for Electrical ...

Explore Havells Distribution Board, designed for efficient power distribution in residential, commercial, and industrial electrical

Jan 11, 2026

What Is a Distribution Box? Types, Uses & How to Choose

Learn what a distribution box is, its types, and how to choose the right one for your project.

Jun 22, 2026

Distribution boxes – For modular and decentralized

Modular enclosure system for individual power distribution solutions and a broad product range for signal

Jun 01, 2026

Distribution Box Guide: Types, Components & Solutions

Choosing the right type of DB box depends on factors such as power load, installation environment, and the need for

Sep 22, 2025

DISTRIBUTION AT THE HEART OF POWER

DISTRIBUTION AT THE HEART OF POWER With its XL3 enclosures, the DX3, DPX3, DPX, DMX3 ranges of circuit breakers and

May 25, 2026

Power Distribution Blocks

One of which is our line of polycarbonate 600V / 90 to 1520A Power Distribution Blocks. Safe and convenient, durable and easy to

Jan 22, 2026

Distribution Box and Selection Guide: Internal Structure, Components ...

Learn how to choose a distribution box and understand its internal structure, including MCBs, busbars, neutral bars,

May 11, 2026

What Is a Distribution Box?

Some distribution boxes have a longer cord than others. When choosing a distribution box, make sure the cord is

Feb 05, 2026

Types of Electrical Distribution Boards Explained

Distribution boards are an essential part of any electrical installation as they act as a central

Jul 09, 2026

Distribution Board Design: Standards, Surge Protection

Early planning of a distribution board's layout and component selection is essential for long

Nov 18, 2025

Electrical Distribution Boxes for Power Distribution | Wieland

From decentralized energy, signal and data distribution to distribution boxes for smart buildings, we offer the right solution. We mount

Mar 15, 2026

Distribution Boards | Legrand DB Board for Safe Power Supply

Legrand's Distribution Boards deliver safe, reliable power distribution for homes, commercial spaces, and industrial applications,

Jun 01, 2026

Power Distribution Box

Find here Power Distribution Box, electric distribution box manufacturers, suppliers & exporters in India. Get contact

Apr 08, 2026

EG Electronics | Power Distribution Boxes (PDB)

It acts as the central hub for distributing power from the main battery or energy storage system to inverters,

Apr 18, 2026

Distribution Board (PDB, ADB, ALDB, MLDB, DCDB, JB's) - JV Power

These boards are essential for safely distributing electrical power within industrial, commercial, and residential settings. Established

Jul 05, 2026

Power Distribution Boxes (hard wired) | TE Connectivity

Discover power distribution boxes (hard wired) from TE that are designed for flexible, cost-effective

Feb 20, 2026

Power Distribution Blocks | TE Connectivity

Power distribution block products with 3 configurations Our exclusive compact and modular power

Nov 01, 2025

What is a DB Box? Types, Wiring, Selection Guide

Learn everything about DB box (distribution box): what they are, how they work, wiring diagrams, types, and how to choose the right

Feb 19, 2026

LOW-VOLTAGE POWER DISTRIBUTION ALPHA BSII 125 & 250A

Features Complete with mounting bracket, cable looms & protective MCB 5SD7 Type 2 Surge Arrestor Suitable for TNS earthing

Jan 21, 2026

Ultimate Guide To Distribution Boxes Db Boxes Types

This ultimate guide explains what a distribution box does, its internal components, common types, real

Mar 01, 2026

Acti 9 Power Distribution Boards | Schneider Electric India

Propel your power systems with Schneider Electric's reliable, safe Acti 9 distribution boards. These sleek, innovative systems ensure

May 17, 2026

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),

Jun 06, 2026

Power Distribution Board: Uses, Role & How its Work

Learn about power distribution boards: their uses, role, and how they work to manage electrical power distribution

Jun 04, 2026

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

Jul 14, 2026

Distribution Boards

Schneider Electric offers robust electrical distribution boards for safe and efficient power management. Suitable for various

Aug 03, 2025

Ultimate Guide To Distribution Boxes Db Boxes Types

Power Distribution Boxes – Support sockets, equipment, and heavy machinery. Control Distribution Boxes

Aug 07, 2025

Distribution Box: Types and Functions | Axis-Electricals

A distribution box houses all the contact breakers, earth leakage units, doorbells, and timers. The electrical power supply comes from

Dec 13, 2025

Distribution board

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

Aug 11, 2025

Distribution Box, Distribution Board for Power Distribution Systems ...

Distribution Box A distribution board (also known as panelboard, breaker panel, electric panel, DB board or DB box) is a component

Contact Us

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

Website: <https://www.iiss.co.za>

Email: sales@iiss.co.za

Phone: +27 63 174 2895

Address: Unit 8, Innovation Park, 15 Rivonia Road, Sandton, Johannesburg,
2196, South Africa

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

