

Dormitory Building Electrical Distribution Box



Summary of Content

Dormitory electrical distribution boxes safely manage power for multiple rooms, providing circuit protection, independent control, and reliable centralized power distribution.

Purpose and Function

An electrical distribution box, also known as a fuse box or panelboard, is the central hub for distributing electricity from the main supply to individual circuits within a dormitory . It performs several key functions:

- **Circuit Protection:** Protects wiring and devices from overloads or short circuits using fuses or circuit breakers .
- **Personal Safety:** Residual current devices (RCDs) interrupt electricity flow in case of leakage currents, preventing electric shocks .
- **Independent Circuit Control:** Allows each room or socket circuit to be switched on/off independently, which is essential for maintenance and energy management .
- **Additional Features:** Modern boxes may include surge protection, smart modules, or time relays to enhance safety and efficiency .

Specifications for Dormitory Use

Dormitory distribution boxes are designed to handle multiple circuits and high simultaneous loads. For example, a 250A 2P 10-circuit distribution cabinet is suitable for single-phase 110V/220V dormitory sockets . Key features include:

Article Content

Distribution Box, School Dormitory, Multi-user Smart Electricity Meter ...

The distribution box ensures circuit safety and stable power distribution, while the multi-user smart electricity meter realizes digital

Electrical Design Report for T1 Dormitory

This document provides an electrical design report for a university dormitory building. It includes summaries of the distribution

Comprehensive Electrical System Design for Dormitory Buildings

Detailed design of lighting, power outlets, fire alarms, CCTV, RAC, and communication systems for dormitory buildings ensuring

Electrical distribution boxes

Electrical distribution boxes are found in private rental apartments, condominiums, apartment buildings and single-family houses as

Distribution Box Guide: Types, Components & Solutions

Understand distribution boxes (DB boxes) in 5 minutes. Learn about types, components, functions, and uses. Find

Three-Phase Distribution Box | Reliable Power for

Learn how to select, size, and design a three-phase distribution box for compact electrical

Three-Phase Distribution Box | Reliable Power for Prefab Buildings ...

Learn how to select, size, and design a three-phase distribution box for compact electrical systems. Ideal for prefab

Dormitory Building Power Distribution Solution: Application of Meter ...

Complying with civil low-voltage electrical standards, the meter box matched with DDS22 single-phase electronic energy meter is

Electrical Distribution Boxes for Power Distribution | Wieland

Electrical distribution boxes for modular power distribution and installation. Flexible distribution solutions for industrial and building

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,

Electrical Design for Dormitory Building

The document outlines the electrical installation design for a B+G+2 dormitory building at DebreTabor University, detailing the

Contact Us

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

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

Email: sales@benniedesignstudio.co.za

Phone: +27 82 391 4765

Address: The Towers, 1 St Georges Mall, Cape Town, 8001, South Africa

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

