

Various uses of distribution boxes

Article Overview

Distribution boxes are essential for safely distributing electrical power to multiple circuits in residential, commercial, and industrial settings while providing protection and control.

Core Functions

A distribution box, also known as a DB box, serves as the central hub for electrical power distribution. It receives electricity from a main supply and safely directs it to multiple downstream circuits, protecting both equipment and users from electrical hazards such as short circuits and overloads through circuit breakers or fuses . It also organizes wiring, making maintenance and troubleshooting more efficient .

Common Applications

Distribution boxes are widely used across various environments:

- **Residential Buildings:** Single-phase DB boxes manage lighting, sockets, and small appliances safely .
- **Commercial Buildings:** Three-phase DB boxes handle higher loads for offices, shops, and commercial equipment .
- **Industrial Facilities:** Power distribution boxes support heavy machinery, control systems, and large-scale electrical networks .
- **Outdoor Installations:** Pole-mounted DB boxes are used for street lighting, utility networks, and other outdoor electrical systems .
- **Lighting Management:** Specialized lighting distribution boxes control and protect l...

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