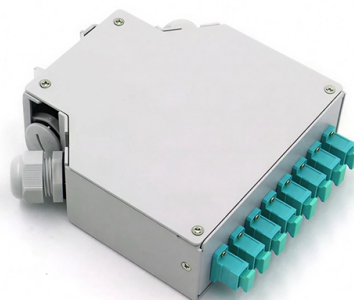


What level of power distribution does the AP distribution box belong to



Overview

For reasons of aesthetics and security, domestic circuit breaker panels and consumer units are normally located in out-of-the-way closets, attics, garages, or basements, but sometimes they are also featured as part of the aesthetic elements of a building (as an art installation, for example) or where they can be easily accessible. However, current U.S.

Key Takeaways

An AP distribution box belongs to the secondary (or low-voltage) distribution level.Explanation

An AP (Access Point) distribution box is typically installed within a building or facility to distribute power to multiple devices, such as network equipment, lighting, or small appliances. According to standard electrical distribution hierarchy, the primary distribution carries medium voltage (usually 5-35 kV) from substations to distribution transformers, which then step down the voltage for local use . The secondary distribution level, also called the secondary or low-voltage network, receives power from these transformers and delivers it to individual buildings or units. The AP distribution box is part of this secondary network, providing low-voltage three-phase or single-phase power (commonly 220-240V for single-phase or 380-415V for three-phase systems) to connected equipment .



Key Characteristics

- **Voltage Level:** Typically 220–240V single-phase or 380–415V three-phase, suitable for powering end devices.
- **Equipment Inside:** May include circuit breakers, fuses, and leakage protection switches to ensure safety and control for connected loads .
- **Function:** Acts as a junction point to distribute power from the transformer to multiple devices or sub-circuits within a building.
- **Placement:** Usually located inside buildings, near the point of use, unlike primary distribution cabinets which are outdoors or at substations .

Summary

In the three-level distribution system:

- **Primary distribution:** Medium voltage from substations to transformers.
- **Secondary distribution:** Low-voltage distribution to buildings; includes AP distribution boxes.
- **Tertiary distribution:** Final connection to individual appliances or outlets within units . Thus, the AP distribution box is part of the secondary distribution network, bridging the transformer output to the end-user circuits safely and efficiently.

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Information above shows maximum power levels typically supplied by various distribution voltages. Less current

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