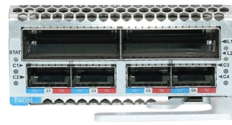


Power supply and disconnection principle of a three-level distribution box



Overview

Connects to end-use equipment via switch boxes, forming a three-tier power distribution system. Residual current devices (RCDs) at both the tertiary (equipment-level) and secondary (zone-level) stages. Ensures safe disconnection in case of faults or leakage currents. From there, it is routed to individual building distribution boxes (secondary distribution boxes), which subsequently supply power to unit-level distribution boxes (tertiary distribution boxes), and finally to household systems. These boxes have inner and outer doors, powder-coated exteriors, and are designed for safety and aesthetic appeal, with rainproof tops for outdoor work. Tertiary distribution boxes, or. Three level distribution box: a distribution box is set under the main distribution box, a switch box is set under the distribution box, and electrical equipment is set under the switch box to form a three-level distribution box. "Two-level protection" mainly refers to the use of leakage protection. The three-level distribution system refers to a system that distributes electric power through three levels of distribution devices from the incoming power line at the construction site to the electrical equipment. The following is a detailed introduction about it: - **First-level Distribution.



Article Content

Dec 17, 2025

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According to the hierarchical and branch circuit principle, in a three-level distribution system, no electrical equipment shall be connected by bypassing levels.

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Service Disconnect Rules per NEC Article 230, Part VI

The service disconnect rules, primarily outlined in NEC Article 230, Part VI, are fundamental to electrical safety, providing the means to de-energize an entire building from its power source.

Contact Us

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