

How to configure the power supply in the factory s electrical distribution box



AI Overview

Proper configuration of a factory electrical distribution box ensures safe, reliable, and efficient power delivery to all equipment while allowing for future expansion.

Step 1: Assess Power Requirements Begin by calculating the total power demand of the factory, including continuous loads (production lines, pumps) and intermittent loads (maintenance equipment, temporary workstations) (). Identify high-power clusters (e.g., machinery, HVAC) and low-power areas (e.g., offices, control rooms) to optimize load distribution and minimize voltage drop (). Consider future expansion to avoid undersizing the system ().

Step 2: Select Voltage Levels and Transformers Determine the appropriate voltage levels for different sections of the factory, typically including medium-voltage (e.g., 10 kV) and low-voltage (e.g., 400 V) systems (). Install transformers to step down high-voltage supply to usable levels for machinery and lighting (). Choose between dry-type or oil-filled transformers based on maintenance and safety requirements ().

Step 3: Choose Distribution Box Type and Layout Select a distribution box that matches environmental conditions, load characteristics, and protection needs. Options include outdoor waterproof/dustproof boxes or modular boxes for easy expansion (). Place the box near the load center to reduce cable length and power loss, and separate different voltage systems to avoid interference ().

Step 4: Install Protection and Control Devices Equip the distribution box with circuit breakers, RCCBs, fuses, and microprocessor-based protection devices to prevent overcurrent, short circuits, and arc faults (). Ensure protection coordination so that faults are isolated without affecting the entire system (). Include monitoring devices for energy management and early fault detection ().

Step 5: Connect Conductors and Busways Use high-quality conductors (copper or aluminum) capable of handling the...

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Electrical Design Steps for Factories

After determining the calculated load, the next step is to create a detailed drawing of the high-voltage power grid system to ensure a stable power supply for the entire factory.

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Select the electrical distribution system configuration such as radial or loop to balance reliability, flexibility, and costs. The distribution system feeds power from the sources to the loads.

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