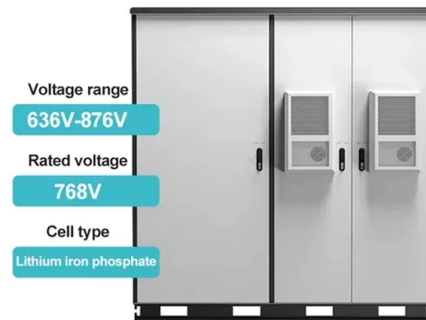


Small Factory Electrical Distribution Box Manufacturing Process



AI Overview

Small factory electrical distribution boxes are produced using advanced automated processes, precision engineering, and strict quality control to ensure safe, reliable, and customizable power distribution solutions. Overview of Manufacturing Facilities A small distribution box factory is a specialized facility focused on producing compact electrical enclosures for power distribution systems. These factories integrate CNC machinery, automated assembly lines, and quality control systems to maintain consistent product quality and efficiency. They typically handle metal fabrication, powder coating, component assembly, and rigorous testing to ensure durability and safety. Modern factories also implement smart manufacturing principles, including real-time monitoring, predictive maintenance, and inventory management.

.Production Process The manufacturing process generally follows these stages: **Design & Engineering:** Engineers create CAD drawings and 3D models based on customer requirements, standards (IEC, ANSI), and application scenarios. This ensures proper dimensions, material thickness, IP/NEMA protection levels, and component layout.

.Material Preparation: High-quality steel or stainless steel sheets are selected, with surface treatments like anti-rust coatings or powder paint applied. Each batch undergoes thickness, hardness, and corrosion resistance tests.

.Cutting and Forming: CNC laser cutting and punching machines cut, bend, and stamp the metal sheets with high precision, allowing both standard and custom designs. **.Surface Treatment:** Powder coating, galvanization, or painting is applied to enhance corrosion resistance and aesthetics.

.Assembly: Components such as sockets, wires, and casings are assembled, often in-house to reduce reliance on third-party suppliers and improve cost efficiency.

.Testing & Quality Control: Each distribution box undergoes electrical...

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