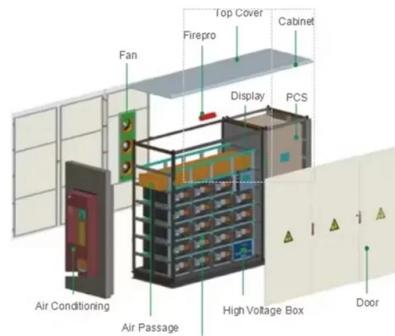


Safety Configuration of Home Electrical Distribution Boxes



AI Overview

A safe home distribution box should include a main switch, separate circuits for sockets, lighting, and high-power appliances, protective devices like MCBs and RCDs, proper grounding, and a durable, well-sealed enclosure.

Key Components and Configuration

- Main Switch:** The primary control point for the entire electrical system, allowing quick shutdown during emergencies or maintenance.
- Room Socket Circuits:** Each room should have its own circuit to isolate faults and prevent overloads from affecting the entire home.
- High-Power Appliance Circuits:** Appliances such as electric stoves, water heaters, and air conditioners require dedicated circuits to avoid overloading and ensure safe operation.
- Lighting Circuits:** Separate circuits for lighting maintain illumination even if other circuits experience faults.
- Protective Devices:**
 - MCBs (Miniature Circuit Breakers):** Protect individual circuits from overloads and short circuits.
 - RCCBs/RCDs (Residual Current Devices):** Protect against electric shocks by detecting leakage currents.
 - RCBOs:** Combine MCB and RCD functions for enhanced safety.
 - Surge Protection Devices (SPD):** Protect sensitive electronics from voltage spikes.
- Circuit Breaker Types:**
 - 1P (Single Pole):** Controls only the live wire.
 - 1P+N (Single Pole + Neutral):** Protects both live and neutral wires.
 - 2P (Double Pole):** Provides maximum protection for both live and neutral wires.
- Enclosure and Installation**
 - Material:** Use heavy-duty steel for durability and fire resistance or high-grade, UV-resistant plastic for indoor or corrosive environments.
 - Ingress Protection (IP) Rating:**
 - IP20:** Suitable for dry, indoor residential areas.
 - IP65:** Recommended for humid or outdoor environments to prevent dust and water ingress.
 - Placement:** Install at a height of approximately 1.5 meters, in a dry, accessible area with good ventilation.
 - Wiring Practices:** Ensure proper grounding of the box and all metal components.

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Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://adikor.eu>

Email: info@adikor.eu

Phone: +33 6 48 37 92 15

Address: 12 Rue de la Paix, 75002 Paris, France

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