

How to connect the 135V power distribution box



AI Overview

To connect a 135V power distribution box, you must properly wire the main input to the main breaker, distribute power to branch circuits via MCBs or fuses, and ensure correct neutral and earth connections for safety.

Step 1: Preparation Install the distribution box securely on a wall or panel board. Ensure it is fixed and accessible for wiring and maintenance. Gather materials: circuit breakers (MCBs or DP/Single Pole), wires of appropriate gauge, wiring ties, fuses, and tools like wire strippers and screwdrivers. Determine wire specifications: For 135V circuits, select wire sizes according to load; typically 2.5mm² for lighting and sockets, 4mm² for higher loads like air conditioning.

Step 2: Identify Input and Output Main input: Connect the 135V supply lines (phase and neutral) to the main breaker (DP MCB if both phase and neutral are switched). Branch circuits: Each output circuit should be connected to individual MCBs or fuses. Use a double-pole MCB for special loads requiring both phase and neutral switching.

Step 3: Wiring Sequence Phase wires: Connect the incoming phase wire to the input terminal of the main breaker. From the main breaker, connect to the input of the RCCB (if used) and then to the branch MCBs. Neutral wires: Connect the incoming neutral to the neutral bus bar. Branch circuit neutrals should also connect to this bus. Earth wires: Connect all earth wires from the supply and loads to the earth bus bar. Ensure the metallic body of the box is also earthed.

Step 4: Wire Color Coding Phase wires: Use standard colors (e.g., red or brown for phase, blue for neutral, green/yellow for earth) to avoid confusion. Branch identification: Label each circuit clearly to indicate voltage, AC/DC, or specific load type.

Step 5: Safety and Binding Bind wires neatly with plastic ties to prevent tangling and ensure straight routing. Inline fuses: If using a power distribution block, install f...

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Page 48 Note: The cable connection from the external battery connector to PCB is already present inside the battery box. All the other cable connections should be made in accordance with the above

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Located on the rear panel are the input IEC power plug, network connection (RJ-45), 8A circuit breaker, and output receptacles. The front panel contains the Outlet On LED, Self-Test LED, System On LED,

Power Distribution | Using the Power Distribution Box

In the power supply box, connect the ground (bare) wire to the green terminal, the red wire to the bottom contact on the breaker, and the black wire to a black

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Learn how to connect a distribution box with this easy-to-follow, step-by-step guide. From tools and materials needed to common installation mistakes and solutions, this comprehensive article will

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