

# Installation of Pingdu Civil Defense Dedicated Distribution Box

## Article Overview

Proper installation of a Pingdu Civil Defense Dedicated Distribution Box requires careful site selection, secure mounting, standardized wiring, grounding, and safety verification before power-on.

## Site Selection

The distribution box should be installed close to the power supply to minimize power loss and ensure safety. Avoid humid, corrosive, or poorly ventilated areas to prevent equipment damage and overheating. The installation location should allow easy access for operation and inspection, with sufficient clearance around the box for maintenance ( ).

## Mounting and Height

The bottom edge of the box is typically installed 1.5 to 1.8 meters above the ground for convenient access. Use firm and reliable mounting methods, such as brackets or screws, to prevent movement or tilting due to vibration or accidental impact ( ). Ensure the cabinet exterior is intact; repaint any flaking areas to prevent corrosion ( ).

## Wiring Specifications

- o Power Off: Always turn off the main power before wiring to ensure safety ( ).
- o Cable Selection: Use high-temperature resistant copper core wires with cross-sectional areas suitable for the load current.
- o Separation: Route power cables and signal cables separately to avoid interference ( ).
- o Standardization: Clearly label wires and avoid exposed copper. Ensure all cable inlets and cover joints are sealed properly ( ).
- o Grounding: Connect the ground cable first to ensure human safety. All metal parts, including the box, electrical installation board, and appliance casings, must be reliably grounded ( ).

## Circuit Breaker and SPD Checks

- o Ensure all circuit breakers are in the OFF position before starting ( ).
- o After wiring, switch on the upper-level and input circuit breakers, then the SPD circuit breakers, and verify the SPD status using a multimeter ( ).
- o Check each output branch voltage sequentially to confirm proper operation before final power-on ( ).

## Safety Precautions



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- o Only trained and qualified personnel should perform installation, operation, and maintenance ( ).
- o Use insulated tools and ESD gloves to prevent electric shocks ( ).
- o Maintain proper spacing around the box for safety and accessibility: at least 1200mm in front, 500mm on sides, and 250mm above ( ).

## Final Verification

Before powering the system fully, ensure:

- o All wiring is correct and secure.
- o Grounding is properly connected.
- o Circuit breakers and SPDs function correctly.
- o The box is clean, free of dust, and the door and lock operate properly ( ). Following these steps ensures a safe, reliable, and compliant installation of the Pingdu Civil Defense Dedicated Distribution Box.

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installing a Panduit Metered,

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