

Pole Transformer Distribution Box



Article Overview

A distribution box of a pole transformer houses the transformer and protective components that step down medium-voltage electricity to usable low-voltage power for end-users.

Overview

A pole-mounted distribution transformer is an oil-filled device installed on utility poles to convert medium-voltage electricity (typically 11kV or 22kV) to lower voltages (usually 230V or 400V) suitable for residential, agricultural, or small commercial use . The distribution box refers to the assembly that supports the transformer and includes protective and functional components to ensure safe and reliable power delivery.

Key Components of the Distribution Box

- **Transformer Unit:** The core component, usually oil-filled, containing primary and secondary windings. It steps down high-voltage electricity to a safe, usable level .
- **Poles:** Typically made of pre-stressed concrete (PSC) or rolled steel joist (RSJ), ranging from 8 to 9 meters in height, providing structural support for the transformer .
- **Mounting Channels and Angles:** Metal channels (e.g., 100×50 mm) secure the transformer to the pole, ensuring stability and proper alignment .
- **Fuses:**
 - **Horn Gap (HG) Fuses:** Protect the transformer from overloads and short-circuit currents by disconnecting the circuit during faults .
 - **Drop-Out (DO) Fuses:** Isolate the transformer in case of line faults, allowing safe...

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Both pole-mounted and pad-mounted transformers convert the overhead or underground distribution lines"

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Pole Mounted Transformer Installation: Complete Step

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