

Station Post Insulators IEC C4-125

Station Post Insulators | Datasheet | Pingxiang Huahao Insulator Co., Ltd.



A porcelain station post insulator designed to IEC C4-125 standards for use in substations and switchgear applications. The insulator provides electrical insulation and mechanical support for busbars and disconnectors. It is suitable for indoor and outdoor installations where high mechanical and electrical strength is required. The design supports system voltages up to 125kV AC as defined by the IEC standard.

Specifications

Parameter	Value
IEC Standard	C4-125
Diameter (D)	130mm
Height (H)	305mm
Creepage Distance	500mm
Cantilever Strength	4kN
Tensile Strength	800N-m
Power Frequency Wet Withstand Voltage	50kV
Power Frequency Dry Withstand Voltage	60kV
Lightning Impulse Withstand Voltage	125kV

Key Benefits

- IEC C4-125 standard design ensures compatibility with international substation specifications
- 4kN cantilever strength supports rigid mounting under dynamic load conditions
- 500mm creepage distance provides reliable performance in polluted environments
- 60kV dry withstand voltage and 50kV wet withstand voltage meet IEC power frequency requirements
- 125kV lightning impulse withstand voltage ensures protection against transient overvoltages
- Porcelain body resists tracking and erosion under long-term electrical stress

Application Scenarios

- Mounting busbars in indoor and outdoor substations where mechanical rigidity is required
- Supporting disconnectors and isolators in high-voltage switchgear assemblies
- Installing in substations located in coastal or industrial areas with high pollution levels
- Replacing aging insulators in existing switchgear where IEC C4-125 is the required standard
- Use in new substation builds where IEC-compliant station post insulators are specified

Materials

- Glazed electrical porcelain dielectric body
- Galvanized steel or forged steel metal fittings

- Portland cement bonding the metal fittings to the porcelain

Use Guide

- Verify the system voltage and pollution level before selecting the insulator
- Ensure the mounting hardware matches the insulator's metal fitting dimensions
- Do not exceed the 4kN cantilever strength under dynamic or wind load conditions
- Inspect for glaze cracks or cement damage before installation
- Handle by the metal fittings to avoid stress on the porcelain body

Certification: ISO 9001:2008 | Standards: GB ANSI BS DIN AS IEC | Design capability up to 500kV AC and 400kV DC. For a quotation email admin@huahaoinsulator.com with the class, coupling type, quantity and destination.