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Chapter 1

Post Insulator Definition

1.1 Substation

By Orient Power

What is Substation?



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Post insulator is a high voltage insulator for power frequency AC voltage from 15KV to 750KV, and it is commonly used in the substation, power station and electrical equipment devices.

What is a substation?

Substation: change voltage, control and distribution of electrical energy.

Substation is made by some equipment assembled, then to cut off or turn on, change or adjust the voltage. In power system, substation is the rally point for transmission and distribution.

Classification of substation:

- ✧ Hub substation
- ✧ Terminal substation
- ✧ Step-up substation
- ✧ Step-down transformer substation
- ✧ Power system transformer substation
- ✧ Railway transformer substation

The main equipment for substation is switch and transformer.

Category of transformer:

- According to the number of phase points:
 - single-phase transformer
 - three-phase transformer.
- According to utility cent:
 - contact step-up transformer
 - step-down transformer and transformer.
- According to the winding points:
 - double winding transformer
 - three winding transformer and autotransformer.