

# Application of lightning arrester in energy storage system

What is a lightning arrester?

Basically they are light-duty arresters and must be installed at locations that are not directly exposed to lightning strokes. These arresters are therefore employed for surge protection of installations and equipment that are not so critical as to cause a shutdown of the power system.

Are lightning arresters indispensable in power systems protection?

The installation of lightning arresters greatly reduces the voltages at the loads, implying that they are necessary in power systems protection as they significantly decrease lightning-induced voltages.

What is a lightning arrester & a surge arrester?

It is customary, therefore, to call an arrester up to 245 kV a lightning arrester and beyond 245 kV a surge arrester. For ease of reference, we have described them as surge arresters or only arresters for all types, and blown-off by the force of the gases thus produced.

What is the rated voltage of a lightning arrester?

The lightning arrester for a 11kV electric power system is designed to have a rated voltage of (11-kV).

Can lightning arrester model be applied to 11kV power systems?

The presented lightning arrester models are discussed. By slightly modifying the IEEE model, a 92% reduction in lightning-induced voltage was recorded. Therefore, the modified model can be applied to the protection of 11kV power systems for more reliable and improved power supply to customers.

What is the energy capacity of an arrester?

The energy capability of an arrester will vary with the over-voltage conditions of the system. It is therefore essential to ensure that the arrester chosen has sufficient capability to sustain the required system TOV and surge conditions during long years of operation.

Hitachi Energy offers a complete range of surge arresters for high and medium voltage applications. The range comprises of AC and DC solutions up to 1,100kV and arresters for special applications like railways, DC-voltage limiting devices ...

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