

Fire protection system design for power grid energy storage power station

How to prevent fire in energy storage power station?

The key to the fire prevention and control of energy storage system is early warning. Zhuo et al. took LFP battery module as the research object, and put forward the basic principles of fire detection design of energy storage power station from the aspects of risk, spacing and water supply.

What is fire protection spacing in energy storage power station?

Considering the layout of energy storage power station, the fire protection spacing is designed in 3 levels. The first level is the spacing between the energy storage power station and other buildings outside the station. The second level is the spacing between the prefabricated cabin and other buildings and equipment in the station.

Does a power station need a fire protection system?

As a power generation plant and the existence of fuel storage, an efficient fire protection system is essential. This paper presented a comprehensive review of the existing research on fire protection systems. Utilising the reviewed as basis, this paper also described the five types of KY Power Station fire protection systems as the case study.

Will intelligent fire protection systems improve the safety of energy storage systems?

In the future, the intelligent fire protection systems will improve the safety of energy storage systems, and efficient test platforms and reliable test standards will continue to be demanded to reduce the likelihood of thermal runaway and fire severity.

How to improve the fire safety of power grid in China?

When the thermal runaway becomes uncontrollable, the fire protection strategies including the fire extinguishing, flame-retardant barrier and other methods are participating to control the fires. It is of great practical and scientific significances to improve the fire safety of power grid in China.

Can energy storage power stations monitor fire information?

Fire information monitoring At present, most of the energy storage power stations can only collect and display the status information of fire fighting facilities (such as fire detectors, fire extinguishing equipment, etc.) in the station.

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In view of the potential fire safety problems of unattended energy storage power station, the author designs a new fire control remote monitoring system scheme suitable for energy ...

