

The automatic fire extinguishing device of the energy storage system includes

How does a fire extinguisher work?

The tube is filled with fire extinguishing agent and placed above the safety exhaust port of the battery. When the high-temperature gas is emitted or burned, the tube melts and releases the fire extinguishing agent, thereby cooling the battery or extinguishing the fire in advance.

What technologies are used in battery energy storage systems?

Afterward, the advanced thermal runaway warning and battery fire detection technologies are reviewed. Next, the multi-dimensional detection technologies that have applied in battery energy storage systems are discussed. Moreover, the general battery fire extinguishing agents and fire extinguishing methods are introduced.

How are battery fires different from traditional fire extinguishing methods?

Traditional fire extinguishing methods include isolation, asphyxiation, cooling, and chemical suppression. However, different from traditional fires, battery fires are special because oxygen is generated inside battery and the exothermic reaction mainly proceeds in the form of chemical chains among battery materials.

Which fire extinguishing agents are used for battery fires?

Based on the understanding of fire extinguishing mechanism, new fire extinguishing agents have been developed for battery fires, such as hydrogel fire extinguishing agents and liquid nitrogen fire extinguishing agents.

What is fire extinguishing agent immersion suppression?

However, the area of fire extinguishing agent attached to the battery surface is small, and the cooling effect is insufficient. Fire extinguishing agent immersion suppression is also a new method of battery thermal runaway suppression. The battery module is immersed in some media (silicone oil, HFE_7100 and water).

How to protect battery energy storage stations from fire?

High-quality fire extinguishing agents and effective fire extinguishing strategies are the main means and necessary measures to suppress disasters in the design of battery energy storage stations. Traditional fire extinguishing methods include isolation, asphyxiation, cooling, and chemical suppression.



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