

Fire extinguishing at luxembourg city s new energy storage station

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 .

Are large-scale fire extinguishing experiments necessary?

Therefore,before the fire extinguishing agent is used in energy storage stations,large-scale fire extinguishing experiments are necessary to truly evaluate the effectiveness and authenticity of the fire extinguishing agents and methods.

Are lithium-ion battery energy storage systems fire safe?

With the advantages of high energy density, short response time and low economic cost, utility-scale lithium-ion battery energy storage systems are built and installed around the world. However, due to the thermal runaway characteristics of lithium-ion batteries, much more attention is attracted to the fire safety of battery energy storage systems.

What happens if an energy storage station fires?

Since a large amount of energy is stored in the energy storage station in the form of chemical energy,once this energy is released in the form of heat and fire,it will cause serious damage. For example,in 2024,three LFP battery energy storage station fire accidents occurred in Germany within three months .

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 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) .



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