

Perfluorohexanone automatic fire extinguishing device for energy storage power station

What is perfluorohexanone fire extinguishing agent?

The perfluorohexanone fire extinguishing agent has attracted the attention of the industry because of its environmental friendliness and good performance in suppressing lithium-ion battery fires. Perfluorohexanone is used widely to protect spaces housing electrical systems [18,19].

How does perfluorohexanone work?

The device is in a storage pressure (perfluorohexanone) when it is not working, and it can be activated with a small current immediately when a fire signal is received. A pressure cavity is formed at the front end of the sealed cavity as a power source, and the perfluorohexanone is atomized by an atomizing nozzle.

Does perfluorohexanone fire extinguish lithium ion batteries?

Wang et al. have studied the fire extinguishing effects of perfluorohexanone on lithium-ion batteries. The study showed that perfluorohexanone could effectively extinguish the fire of lithium-ion batteries, and extinguished the open flame within 30 s. Liu et al. tested the application of perfluorohexanone to single LIB cells.

What are the physical properties of perfluorohexanone?

Physical Parameters Perfluorohexanone is a fluorinated ketone compound. It is a colorless, odorless, and easily vaporized liquid fire extinguishing agent at room temperature. No residue is left after evaporation. The main fire extinguishing mechanism is chemical suppression and flame cooling.

How long does perfluorohexanone spray take to extinguish a fire?

The fire was extinguished within 9 s after the release of the extinguishing agent, which was faster than that of Test 6. The duration of perfluorohexanone spray was 45 s. The shorter time to extinguish the fire is mainly because of the rapid increase of internal pressure of fire extinguishing device under high temperature.

Does a plunger type perfluorohexanone (C₆F₁₂O) fire extinguishing?

In this study, a plunger type perfluorohexanone (C₆F₁₂O) fire extinguishing device was developed, and key components such as gas generating device and puncture valve were improved. The 271 Ah lithium iron phosphate battery was used to verify the fire extinguishing efficiency and environmental adaptability of this device in extreme environments.

At present, the mainstream perfluorohexanone fire extinguishing system at home and abroad, there is a big problem is the need to store ...

Xingri aerosol miniature automatic fire extinguishing device Xingri miniature automatic fire extinguishing

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device adopts high-efficiency and clean fire ...

As energy storage technologies advance, their role in grid regulation, renewable energy integration, and secure power supply becomes increasingly vital. However, these ...

At present, lithium-ion batteries (LIBs) with excellent performance have attracted the attention of the industry, but there are still ...

What is the best fire extinguisher for lithium batteries? Experiment with a single burning energy storage battery. 4 kinds of fire extinguishing devices are heptafluoropropane, ...

2. According to the fire characteristics of new energy vehicles, the perfluorohexanone automatic fire extinguishing device developed, and the automatic fire temperature detection technology ...

The automatic fire extinguishing device for lithium battery compartment of new energy vehicles developed by golden mean fire fighting equipment Co., Ltd. uses 1230 ...

The fire prevention and control system of the power battery box of the star sun electric bus solves the problem of extinguishing the fire of the power battery ...

The invention aims to provide a lithium battery cooling and fire extinguishing system and a cooling and fire extinguishing method for an energy storage power station, which can realize ...

The utility model provides a non-pressure storage type perfluorohexanone fire extinguishing device, which comprises a case, wherein a power supply unit and a fire extinguishing unit are ...

PERFLUOROPROPANE AUTOMATIC FIRE EXTINGUISHING DEVICE The perfluoropropane fire extinguishing device is suitable for use in: power distribution cabinets, data cabinets, ...

The Schematic diagram of the fire extinguishing device structure is given in Fig. 3. It is composed of PCB control board, gas generating device, safety valve, puncture. Perfluorohexanone is a ...

This article provides a comprehensive guide on battery storage power station (also known as energy storage power stations). These facilities play a crucial role in modern power grids by ...

The fire protection system of the energy storage power station implements the hierarchical early warning mechanism and adopts multi-level fire treatment and control, which ...

The fire extinguishing device automatic fire extinguisher for electrical room can quickly and effectively



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extinguish class A, CLASS B, class C, and Class E fires.

PTG Perfluorohexanone Automatic Fire Extinguisher Developed specifically for energy storage systems, this solution is optimized for enclosed, small-space applications.

Automatic fire extinguishing device uses perfluorohexanone as fire extinguishing agent, high fire extinguishing efficiency, environmental protection and no pollution.

The company's main products: gas temperature automatic fire extinguishing device, fire detection tube fire extinguishing device, non-magnetic clean gas fire extinguisher, kitchen equipment fire ...

The Role of Perfluorohexanone in New Energy Storage Systems New energy storage systems, particularly lithium-ion battery arrays, face risks such as overheating and short circuits, which ...

Perfluorohexanone fire extinguishing equipment for power distribution cabinets Advantages: good environmental performance, good fire extinguishing effect, safe to use, good electrical ...

Energy: Wind energy, petroleum, coal mine, electric power-power battery, energy storage power station, battery replacement, automatic fire extinguishing solutions for power generation.

Perfluorohexanone fire extinguishing device adopts small cylinder filling agent, integrated, miniaturized design, modular assembly, can be used in a single set, or multi-group integrated ...

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This article explores the application of Perfluorohexanone in energy storage systems, detailing its working principles, advantages, and critical considerations for its use.

A complete set of fire extinguishing equipment that pre-assembles components such as perfluorohexanone fire extinguishing agent storage devices and nozzles under certain ...

adopts aerosol / perfluorohexanone automatic fire extinguishing system, composed of smoke temperature sense detection device, fire alarm host, fire extinguishing device and To ensure ...

These active fire extinguishing devices are applicable to various lithium battery equipment fire situations, such as those in electric vehicles, electric bicycles, ...

EV charger fire suppression device is an automatic fire extinguisher specially designed for small enclosures,

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such as the electric vehicles and energy storage system.

Storage capacity is the amount of energy extracted from an energy storage device or system; usually measured in or and their multiples, it may be given in number of hours of electricity ...

Prefabricated perfluorohexanone fire extinguishing device can quickly extinguish the open fire, and the water mist fire extinguishing system can continue to lower the temperature and inhibit ...

These active fire extinguishing devices are applicable to various lithium battery equipment fire situations, such as those in electric vehicles, electric bicycles, lithium battery energy storage ...

The NOVEC 1230 fire suppression system is a new type of system that uses perfluorohexanone (NOVEC 1230) as the extinguishing agent. The system is ...

The pre-installed perfluorohexane fire extinguishing device is a complete set of fire extinguishing equipment that pre-assembles components such as the perfluorohexane fire extinguishing ...

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