

Development of energy storage fire extinguishing system

What is the mechanism of fire-extinguishing agent?

The mechanism of fire-extinguishing agent is mainly divided into isolation, smothering, cooling and chemical suppression. However, the fire triangle of battery is difficult to destroy, as the three elements of fire triangle can be provided by the battery itself. In addition, LIB fire is a complex fire with the characteristics discussed above.

Why is fire-extinguishing technology strategy important?

Fire-extinguishing technology strategy is significant important in LIBs fire-extinguishing. Appropriate fire-extinguishing technology strategy can improve the fire-extinguishing and cooling effect of fire-extinguishing agent and inhibit the re-ignition of LIBs fire.

Can gas fire extinguishing agents reduce the temperature of battery?

Gas fire-extinguishing agents such as Halons, HFC-227ea, CO₂ and Novec 1230 are beneficial to integrity protection of battery system during the fire extinguishing process. However, gas fire-extinguishing agents could not effectively reduce the temperature of battery.

How to effectively extinguish LIBs fire?

With the aim to rapidly extinguish the LIBs fire, an effective LIBs fire suppressant is required to be developed. Gas fire-extinguishing agents such as Halons, HFC-227ea, CO₂ and Novec 1230 are beneficial to integrity protection of battery system during the fire extinguishing process.

Can foam extinguishing agent be used in energy storage station fire?

DNV GL did not recommend the use of foam extinguishing agent in the fire of energy storage stations because the battery module fire required rapid cooling to dissipate heat. Compared with water, foam had more difficulty penetrating the gap of battery packs and cooling the insides of batteries.

What is the development tendency of thermal management technology and fire extinguishing technology?

Development tendency of the thermal management technology and fire extinguishing technology are suggested in the future. The development of new energy technology can effectively reduce dependence on traditional fossil energy sources and promoting the transformation of energy supply.

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