

Angola Low-Pressure Energy Storage Container for Fire Stations





Overview

Are lithium-ion battery storage containers fire prone?

As lithium-ion battery energy storage gains popularity and application at high altitudes, the evolution of fire risk in storage containers remains uncertain. In this study, numerical simulation is employed to investigate the fire characteristics of lithium-ion battery storage container under varying ambient pressures.

Does ambient pressure affect fire behavior of Lib storage containers?

Under unchanged parameters, we vary only the ambient pressure to analyze the fire behavior of LIB storage containers subjected to different pressures. The analysis and discussion encompass changes in characteristic parameters, including heat release rate, temperature distribution, and emission of toxic gases.

What are the dimensions of the energy storage container?

The dimensions of the energy storage container is 6 m × 2.5 m × 2.9 m, with a wall and top thickness of 0.1 m, and a bottom thickness of 0.2 m. Hence, the internal space of the energy storage container measures 5.8 m × 2.3 m × 2.6 m. The container is equipped with doors on both sides, each measuring 1.3 m × 2.3 m.

What are fire characteristics in a storage container?

Additionally, this study can serve as a foundation for further exploration of fire characteristics within the storage container, including flame spread behavior, temperature distribution, and wind speed changes at the exit under varying ambient pressures.



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