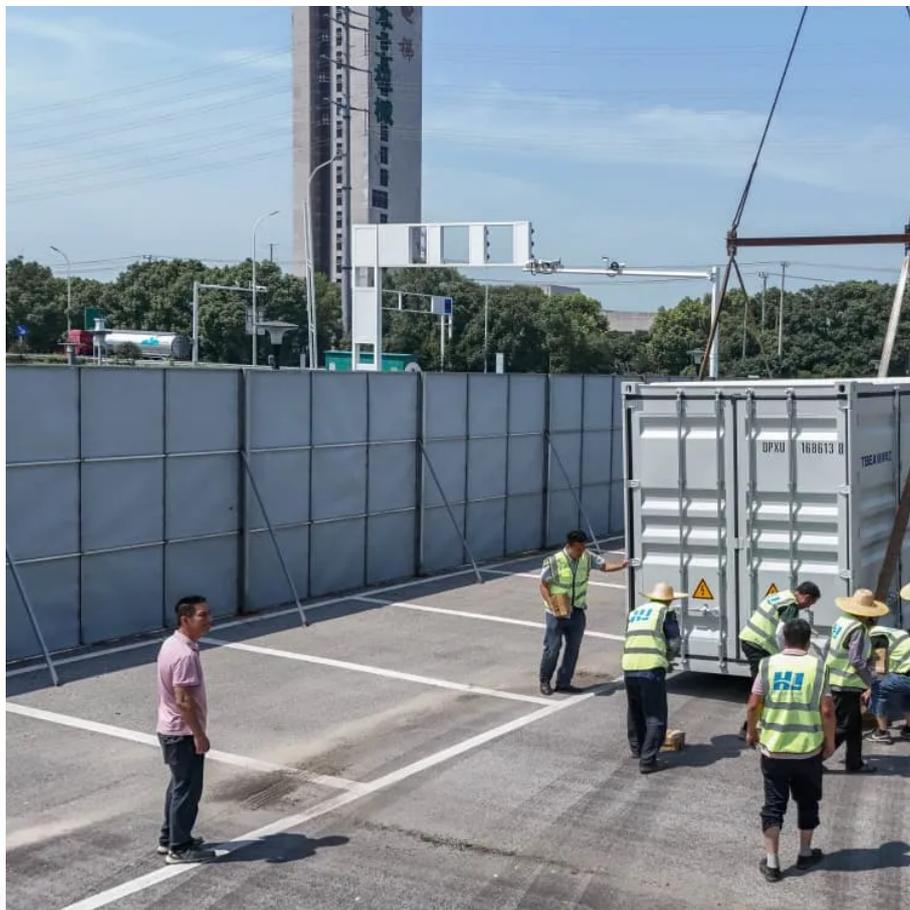


Explosion-proof energy storage power supply





Overview

What are energy storage systems (ESS)?

Energy storage systems (ESS) are being installed in the United States and all over the world at an accelerating rate, and the majority of these installations use lithium-ion-based battery technology.

Why are explosion hazards a concern for ESS batteries?

For grid-scale and residential applications of ESS, explosion hazards are a significant concern due to the propensity of lithium-ion batteries to undergo thermal runaway, which causes a release of flammable gases composed of hydrogen, hydrocarbons (e.g. methane, ethylene, etc.), carbon monoxide, and carbon dioxide.

Does NFPA 855 require explosion protection?

The fire codes (IFC 2021 Chapter 1207, NFPA 855 ed. 2023) contain a requirement to include explosion protection for installed systems exceeding certain energy capacity thresholds.

How does ESS design affect fire and explosion safety?

Several competing design objectives for ESS can detrimentally affect fire and explosion safety, including the hot aisle/cold aisle layout for cooling efficiency, protection against water and dust ingress into the enclosure, and the use of larger cells with increased energy density.



Explosion-proof energy storage power supply



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