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Title: Feasibility of lithium-ion batteries for solar container communication stations

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Are lithium-ion battery energy storage systems safe?

Lithium-ion battery energy storage system (BESS) has rapidly developed and widely applied due to its high energy density and high flexibility. However, the frequent occurrence of fire and explosion accidents has raised significant concerns about the safety of these systems.

How can a containerized lithium-ion battery be safe?

By developing more advanced battery management algorithms, it can conduct fault diagnosis under accurate state estimation and effectively ensure the safety of the battery operation. Thus, the operating safety and reliability of the containerized lithium-ion BESS can be ensured by the external characteristics of the batteries.

Why is battery management important in containerized lithium-ion Bess?

Battery management is crucial to the safety and reliability of containerized lithium-ion BESS. The battery management algorithm mainly involves battery state estimation, battery equalization management, and fault diagnosis.

Are solid-state lithium-sulfur batteries a viable alternative to traditional lithium-ion batteries?

Solid-state lithium-sulfur batteries offer enhanced energy density and safety over traditional lithium-ion batteries, making them ideal for advanced applications. Here, this Review examines their recent advances and highlights challenges encountered in practical applications and recommendations for industrial development.

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