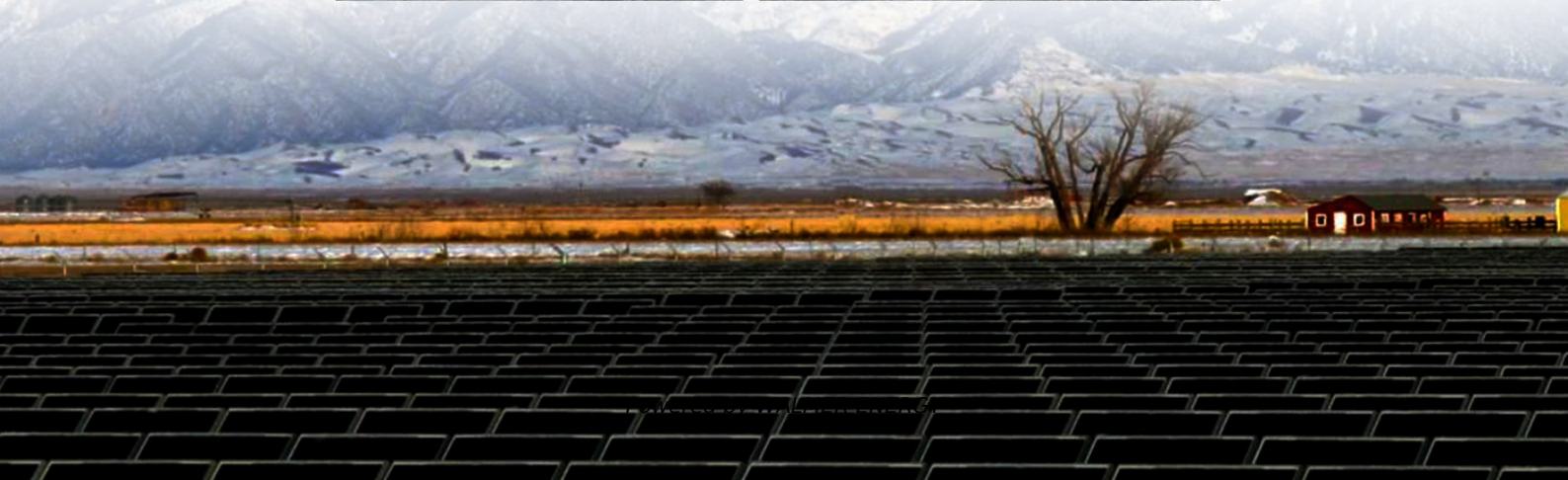


Self-discharge rate of cylindrical solar container lithium battery





Overview

The self-discharge rate is an important parameter to assess the quality of lithium-ion batteries (LIBs). This paper presents an accurate, efficient, and comprehensive method for measuring and under.

Do self-discharge rates affect the cycle life of parallel lithium-ion batteries?

An F, Zhao H, Li P (2018) Self-discharge rates in cells have a critical effect on the cycle life of parallel lithium-ion batteries. RSC Adv 8:30802–30812
Muenzel V, Brazil M, Mareels I, Hoog J de, Thomas DA (2013) Modeling reversible self-discharge in series-connected Li-ion battery cells. In: IEEE 2013 Tencon - Spring, pp 470–474.

How does the self-discharge rate affect battery capacity?

The inconsistency of the self-discharge rate of each cell in series has an impact on the capacity of the battery pack, which is one of the best interpretations of the Cannikin Law. The cells with high self-discharge rate in series determine the pack capacity.

Does self discharge affect lithium-ion batteries?

Self discharge plays a crucial role in maintaining the lifespan and capacity of lithium-ion batteries. This study investigated the effects of storage conditions.

Does the self-discharge rate affect the discharge capacity retention?

We find that the variations of the self-discharge rate in cells significantly affect the discharge capacity retention of the blocks: bigger variation in the cells results in a better cycle life of parallel LICs. Thus, it is prudent to perform cell sorting for the assembly of superior blocks based on the self-discharge rates of the cells. 1.



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