

New energy battery cabinet capacity retention rate is low





Overview

What is a battery retention rate?

In simpler terms, it represents the remaining capacity as a percentage of the initial capacity, initially set at 100%. During cycle testing, which assesses battery degradation through repeated charging and discharging, the capacity retention rate serves as a key evaluation metric.

What is the difference between energy retention rate and energy recovery rate?

Energy retention rate measures a battery's ability to hold onto its charge during storage, while energy recovery rate measures its ability to regain its capacity after being stored for a certain period. Why are testing standards like IEC62133 and UN38.3 important for energy storage cells?

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What factors affect the capacity retention rate of a battery?

Several elements impact the capacity retention rate of a battery apart from cycle count. These include the charging and discharging rates during cycles, ambient temperature, and others. The decline in capacity retention rate can be estimated using degradation coefficients such as K_c in cycle tests and K_f in float tests.

What does a high energy retention rate mean?

A high energy retention rate indicates that the battery can maintain its capacity even under extreme temperature conditions, while a low retention rate suggests that the battery's performance may degrade in certain environments. What is the difference between energy retention rate and energy recovery rate?



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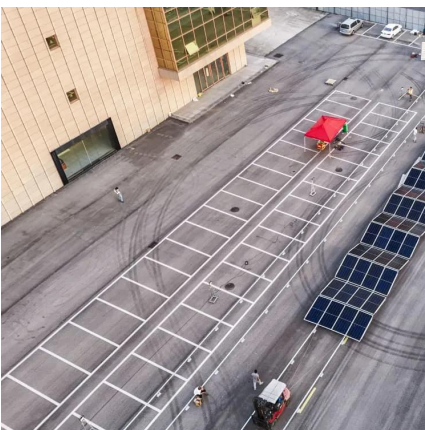
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