

Title: Pulse discharge of lithium battery pack

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Pulse discharge curves and charge curves are collected experimentally to characterize the battery performance at various operating points. It can be extremely di... ..

This paper aims to investigate the impact of switching frequencies in pulse discharging of batteries by testing with Lithium-ion cells. Applying lithium-ion batteries in high power applications is needed to be ...

Pulse charging helps reducing concentration polarization in batteries. This study aims to experimentally investigate the impact of different pulse charging patterns on the charging time and ...

Pulse charging generally adopts the method of charging and discharging, that is, charging for 5 seconds and then discharging for 1 second. In this way, most of the oxygen generated ...

To ensure the safe and reliable operation of the battery energy storage system, it is necessary to conduct the parameter identification of the Li-ion battery model to establish an accurate ...

This review provides a comprehensive analysis of the effect of pulse charging on battery cycle stability and discusses optimized strategies for charging management, thermal regulation, and ...

Lithium-ion battery pack cycling dataset with CC-CV charging and WLTP/constant discharge profiles This work presents a database of a Lithium-ion battery pack cycling test generated from a custom ...

The results show that, compared with the constant current-constant voltage (CC-CV) strategy, the pulse current-constant voltage (PC-CV) strategies can effectively alleviate the capacity fade of the LFP ...

To meet the loading requirements, the pack designer can either use a Power Cell to meet the discharge C-rate requirement or go for the Energy Cell and oversize the pack. The Energy Cell ...

This section analyzes the effects of the main parameters of different pulse current strategies on battery



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lifetime, charging speed, charge/discharge capacity, and the temperature.

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