Electric measurement of peak discharge of lithium battery pack

The discharge function serves to discharge the accumulated charge in the insulation layer of the DUT after the measurement. Inadequate discharge could lead to electric shock or cause ...

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Abstract: The accurate peak power estimation of a battery pack is essential to the power-train control of electric vehicles (EVs).

A novel online peak power estimation method for series-connected lithium-ion battery packs is proposed, which considers the influence of cell difference on the peak power of the battery packs.

This section introduces an example instrument setup for measuring the voltage and temperature at each cell in a high-voltage 800 V battery pack and transferring the data to a charge/discharge system in ...

The experimental results indicate that the optimized JEVS can accurately estimate the peak power of the battery at different temperatures and greatly shorten the test time.

The dataset includes time series data on cell voltages, currents, surface temperatures, and pack-level resistance from up to 36 cells arranged in three parallel branches.

Three key parameters of lithium battery charging and discharging process are fused to analyze the charging and discharging characteristics of lithium battery.

Four key indices, including maximum and minimum instant magnitudes, time-averaged magnitude, and falling/rising rate, are adopted to evaluate battery peak performance under each POM.

DCIR represents the internal resistance of the cell under DC current. Therefore, how much the cell will heat up during discharge depends on the current drawn and the DCIR value. The ...

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