



BUHLE POWER

New energy battery cabinet detection method





Overview

What are the analysis and prediction methods for battery failure?

At present, the analysis and prediction methods for battery failure are mainly divided into three categories: data-driven, model-based, and threshold-based. The three methods have different characteristics and limitations due to their different mechanisms. This paper first introduces the types and principles of battery faults.

How accurate are battery parameters in battery management system?

The detection method of battery parameters in battery management system is simple and the accuracy is limited [, ,], but the accuracy of parameters is the direct factor affecting the fault diagnosis results. Wang et al. proposed a model-based insulation fault diagnosis method based on signal injection topology.

What is the diagnostic approach for battery faults?

As electric vehicles advance in electrification and intelligence, the diagnostic approach for battery faults is transitioning from individual battery cell analysis to comprehensive assessment of the entire battery system. This shift involves integrating multidimensional data to effectively identify and predict faults.

Does battery degradation affect sensor fault detection and isolation?

Battery degradation is inevitable, and it will also affect various battery parameters, and the existing sensor fault detection and isolation (FDI) methods ignore this important factor [, ,]. Tran et al. took battery degradation into account and proposed a sensor FDI scheme based on a first-order RC-equivalent circuit model.



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As essential indicator parameters measurable during operation, voltage, temperature, and battery capacity were used for lithium battery faults [16,17,18]. According to the "GB-T 31,484-2015 ...

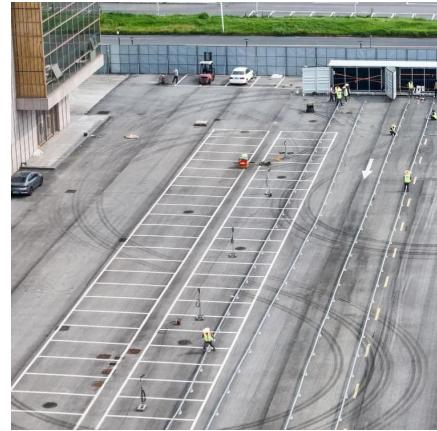


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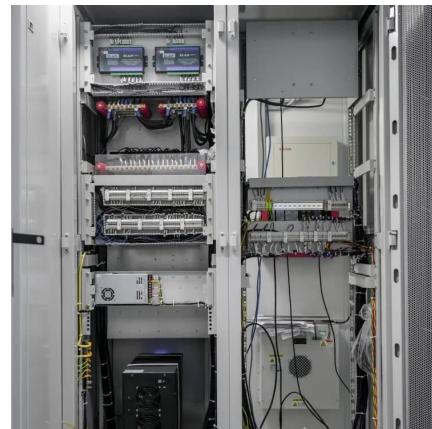
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