

One of the best ways to improve battery pack runtime is through battery cell equalization or balancing techniques. The process of cell balancing usually involves a ...

During the design of a modular battery system many factors influence the lifespan calculation. This work is centred on carrying out a factor importance analysis to ...

A selectable shim system for applying compression to battery cell stacks in a traction battery pack. The shims are inserted between the cell stacks and the pack enclosure ...

A tunable frangible battery pack system for use in an electric vehicle is disclosed. The tunable frangible battery pack system includes a two piece clamshell housing. The system a

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A tunable frangible battery pack system for use in an electric vehicle is disclosed. The tunable ...

Therefore, T_c in each cooling interval can be considered as a control variable for optimization. Xiong et al. [42] ... Coupled electrochemical thermal modelling of a novel Li ...

Vom Prototypen bis zur Serienfertigung: Unsere Lithium-Ionen-Battery Packs sind anpassungsfähig und werden für jeden Einsatzbereich entwickelt. Ob in der ...

19V battery, 19V UPS, DC UPS regulated power pack with variable voltage, 12 volts, 5 volts, 6 volts, 7.5 volts, 9 volts, 12 volts, 14 volts 16 volts or 19 volts 44 watt-hours for ...

A battery voltage acquisition system is built for SOC estimation. A central BMS controller is realized using a field-programmable gate array to receive sensed signals and ...

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This suggests that the battery pack may experience resonance during actual operation. Based on the static and modal analysis results, we proposed a structural ...

The battery management system (BMS) is a core component to ensure the efficient and safe operation of

electric vehicles, and the practical evaluation of key BMS ...

The research focuses on optimizing battery pack systems (BPSs) for crashworthiness and lightweight design in electric vehicles. Traditional methods have high ...

fractional-order battery model, the non-fragile observer design criterion for the gain of proposed observer is crucial to solve the fragility problem in practical and real-time ...

It will be shown that a highly flexible battery system can be realized by dc-to-dc converters between a modular, hybrid battery system and the drive inverter. By the dc-to-dc ...

We present a novel highly stable modular multilevel powertrain design with a variable dc-bus voltage, active inner battery energy flow control, and reduced filter size.

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It will be shown that a highly flexible battery system can be realized by dc-to-dc ...

To study an efficient lightweight method of electric vehicle power packs, the paper proposes that a hybrid method is combined with the modified Genetic Algorithm (NSGA-II), the ...

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