

In the present study, sawtooth waves with linearly increasing wave amplitude and an inlet notch on the distribution plenum (DP) have been introduced in a typical Z-type battery ...

The transient voltage response to the various kinds of applied current waves such as single pulse, single rectangular, triangle, and sawtooth waves is experimentally examined and calculated by using the numerical Laplace transform with the equivalent circuit.

A R T I C L E I N F O Keywords: Lithium-ion battery Thermal management Phase change material Heat pipe
A B S T R A C T Thermal management of lithium-ion battery has become a critical issue in ...

Battery heat generation that occurs during battery charging and discharging can lead to excessive and non-uniform battery temperature in the battery pack. As a result, the battery is more vulnerabl...

Using the Matlab/Simulink measures the power grid harmonic content, and according to the Ni-MH capacitor battery"s short-time large current charge characteristics, selecting voltage controller method as charging terminate ...

For example, sine and sawtooth wave cross-sections exhibit a better thermal performance than the traditional rectangular mini-channels [34]. ... Thermal modeling of secondary lithium batteries for electric vehicle/hybrid electric vehicle applications. J Power Sources, 110 (2002), pp. 341-348, 10.1016/S0378-7753(02)00196-9. View PDF View article ...

A battery charging system and a method for a increasing endurance of a high voltage battery in a hybrid electric vehicle includes a high voltage battery for vehicle ...

Two new approaches - sequence training and data shuffling - are presented to improve LSTM battery voltage models further, making them an even better candidate for the ...

Lithium-ion batteries (LIBs) are widely used in electric vehicles (EVs) due to their superior power performance over other batteries. However, when connected in series, overcharged cells of LIBs ...

Impedance of kilowatt-lass lithium ion battery modules/cubicles was measured. Square-current electrochemical impedance spectroscopy was used for measurement. The ...

Impedance of kilowatt-lass lithium ion battery modules/cubicles was measured. Square-current electrochemical impedance spectroscopy was used for measurement. The square waveform as input signal and its analyzing technology was optimized. The degradation of lithium ion battery module in the system could be

detected.

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Output waveforms: sine wave, square wave, triangle wave, forward sawtooth wave, reverse sawtooth wave, ECG wave, exponential rise, exponential fall, Lorentz pulse, Gauss pulse, Sinc pulse, half-wave, full-wave, Schumann wave, noise wave, and so on 15 kinds of waveforms. 2. Power supply: DC4-9V, DC5V is recommended when using adapter, 3.7V lithium battery is ...

Using the Matlab/Simulink measures the power grid harmonic content, and according to the Ni-MH capacitor battery's short-time large current charge characteristics, selecting voltage controller method as charging terminate parameters. Eventually, realize the electric bus's quick charge through the field experiment. At the...

A battery charging system and a method for a increasing endurance of a high voltage battery in a hybrid electric vehicle includes a high voltage battery for vehicle propulsion, a generator...

When BQ25798 is not connected to a lithium battery, a sawtooth wave of around 8.4V, which was originally a normal waveform, exhibits a phenomenon of jumping up and down, similar to working and stopping ...

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