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Title: Battery pack environmental control

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How does a battery pack affect the environment?

The environmental impacts of the CF,WF,and EF vary from one battery pack to another. The CF of a battery pack represents the amount of GHG emissions that are directly or indirectly caused by its raw material production. Accordingly,the smaller the value presented is,the smaller the impact of the battery pack on the environment.

How can a battery pack improve the environmental footprint?

The positive electrode pastes in the battery cell,BMS,and packaging in the battery pack can influence the environmental burden. Adopting green materialsin sections like the BMS may be a specific measure to enhance the environmental friendliness of a battery pack during the production phase. Keywords Environmental footprint . Battery pack .

What is a battery-pack system?

Battery-pack systems include processes that are exclusively cell manufacturing,such as packing the module for injection. The processes of battery cell production and battery-pack assembly both consume energy.

Which battery pack has the greatest environmental impact?

For six battery packs,the component with the greatest contribution to the CF is the BMS,while four and seven battery packs claim that the BMS is the largest contributor to the WF and EF,respectively. It is obvious that with the same weight,the BMS has the greatest environmental burden in most cases.

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