

What are the components of a battery pack?

A battery pack includes a battery pack case, a battery pack connected in series and parallel, a battery management system (BMS), a wiring harness (strong & weak current), strong current components (relays, resistors, fuses, Hall sensors), etc. 2. Why are Pre-Charge Relays and Pre-Charge Resistors Added to the Battery Pack Components:

What is a battery pack & how does it work?

The battery pack's casing provides structural integrity and protection from external impacts. Lightweight materials like aluminum are often used to reduce vehicle weight. Energy density refers to the amount of energy stored per unit weight or volume. Higher energy density translates to longer ranges for electric vehicles.

What is a traction battery pack?

They provide the power required to propel the vehicle by supplying electricity to the electric motor. Unlike conventional lead-acid batteries used in starter motors, traction battery packs are high-capacity lithium-ion (Li-ion) batteries engineered for sustained energy output, high energy density, and longevity.

What are EV traction battery packs?

EV traction battery packs are the lifeblood of electric vehicles, enabling their environmental and economic benefits. Their design and functionality determine the range, efficiency, and overall user experience of EVs.

How safe is a lithium-ion battery pack?

In addition, the safe working area of the lithium-ion battery pack (Function and Components of Battery Pack) is limited by temperature and voltage. If it exceeds the allowable range, the performance of the battery pack will accelerate decay, and even safety problems may occur.

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