

SolarTech Power Solutions

Electric flat car lithium battery pack



Overview

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.

What are EV battery packs?

EV battery packs are the final product, assembled as well in series or parallel within a hard housing. They may also contain other components, including monitoring software and thermal management. As you can see, EV battery design has the elements arranged in a specific hierarchy.

What is a hybrid battery pack?

Commonly found in HEVs, small hybrid battery packs function in complement to the larger internal combustion engine (ICE). They are ideal for short distance trips (i.e., 30-50 miles), with longer distances reserved to the ICE. EV battery packs are full-sized batteries capable of powering an entire electric vehicle.

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.

How do EV batteries work?

Cells are grouped into modules, which are then assembled into a battery pack. This modular design allows scalability for different EV models. The BMS is the brain of the battery pack, responsible for monitoring cell voltages, managing temperature, and ensuring safe charging and discharging cycles.

What are EV battery modules?

EV battery modules each consist of a number of EV battery cells connected in series or parallel, forming units that produce the required voltage and energy capacity. EV battery packs are the final product, assembled as well in series or parallel within a hard housing.

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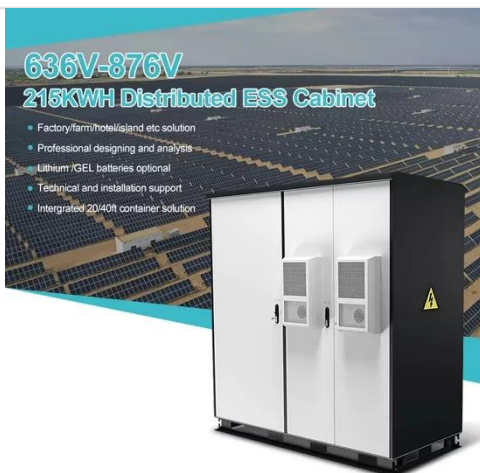
Electric Flat Car 48v 320ah Longest Lasting Solar Batteryries Ev Pack

Our battery packs are tested under the condition of 0.5C charging ratio of 100% depth of discharge (DOD). If we use a 0.25C charging ratio, our battery packs can reach more than ...

Flat Circle Battery vs. Traditional Lithium-ion Cells

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High thermal performance



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The Handbook of Lithium-Ion Battery Pack Design: ...

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51.2V 300AH

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LiFePO₄ Battery, safety

Wide temperature: -20~55°C

Modular design, easy to expand

The heating function is optional

Intelligent BMS

Cycle Life: > 4000

Warranty: 10 years



Optimization of liquid cooling and heat dissipation system of lithium

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