

# High performance battery pack





## Overview

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What does a high battery pack mean?

The term “highest battery pack” can refer to several factors, depending on your needs. In most cases, it’s about capacity measured in kilowatt-hours (kWh). A higher capacity means the battery can store more energy, translating to extended usage.

What is a hybrid battery pack?

This hybrid battery pack synergistically combines the distinct advantages of two battery types: the LFP batteries, known for their safety and cost-effectiveness, and the NMC batteries, recognized for their high performance.

Why do people need high-capacity battery packs?

People need high-capacity battery packs for a variety of reasons. Here are some of the most common use cases: Electric Vehicles (EVs): EV owners want higher-capacity batteries to increase driving range and reduce charging stops. Renewable Energy Storage: Solar and wind energy systems rely on large battery packs to store energy for later use.

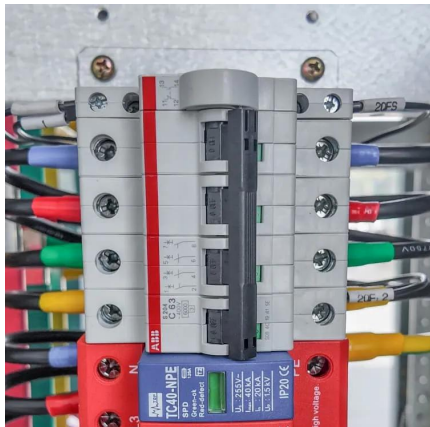
How a hybrid battery pack improves the power density of LFP battery pack?

Through optimizing the layout design, the hybrid battery pack increased 41.7 % power density of uniform LFP battery pack and reduced 3.65 K of the maximum temperature of uniform NMC battery pack, as shown in Fig. 16. Fig. 16.



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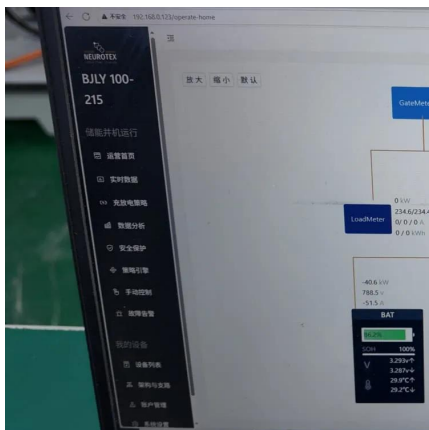
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## An optimized hybrid battery pack with high energy density and high

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