

Principle of new energy range- extending battery cabinet





Overview

How does battery energy density affect driving range & range?

The pack-level energy density is correlated to the vehicle cost and range. The massive battery electric vehicle penetration into transportation sector has stimulated intensive efforts to boost energy density of the battery pack, which essentially dictates driving range and cost of an electric vehicle.

What is a range extended electric vehicle (REEV)?

Range extended electric vehicles (REEVs) offer a solution to the limited range of pure electric vehicles by incorporating an additional energy source. Effectively managing the output power among these energy sources is the key to reduce operating cost.

What are the requirements for a range-extended battery EV?

According to the 2012 Amendments to the Zero Emission Vehicle Regulations, a range-extended battery EV should comply, among others, with the following criteria : The APU must provide a range less than or equal to the main battery range. The APU must not be switched on until the main battery charge has been depleted.

What is a range extender (REEV)?

Range-extended EVs (REEVs) are seen as a potential solution to the limited range and high cost of EVs. A range extender is an auxiliary power unit (APU) that provides the vehicle with additional energy to complement the primary battery in propelling the vehicle .



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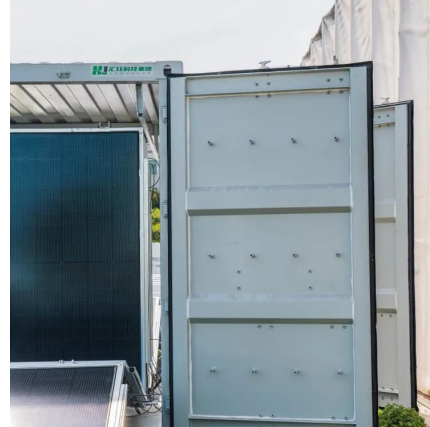
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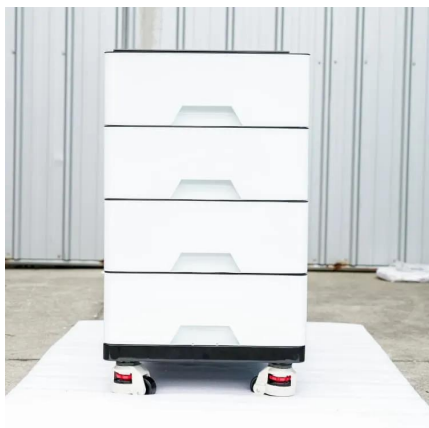


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