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Title: New Energy Range Extender Battery Cabinet

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What is a range extender system?

As the name suggests, it extends the range of an electric vehicle. A range extender system essentially consists of an additional electric motor that acts as a generator, an inverter for voltage conversion and a small combustion engine. The latter powers the generator, which charges the high-voltage battery on the go whenever needed.

How efficient is a range extender?

Since a permanently excited electric motor (PSM) with scalable power outputs of 70kW to 110kW serves as a generator in the "eRE," the range extender is highly efficient. "One advantage for our customers is that we can rely on robust and proven components from our electric and hybrid vehicle portfolio for the range extender.

What is the Energy Cabinet?

Smart Management and Convenience Intelligent Monitoring System: Integrated with a smart monitoring system, the Energy Cabinet provides real-time battery status, system performance, and safety monitoring, enabling remote supervision and fault diagnosis for streamlined operations.

Can a range extender be used as a generator?

In an enhanced version of the "eRE," they added an intelligent clutch and a differential, transforming it into the "eRE+." This makes it possible for the range extender's electric motor to either operate as a generator or, if desired, to power the front wheels, creating a four-wheel drive.

Dec 3, 2025&nbsp;&#0183;&nbsp;&nbsp;The range extender compensates for the reduced battery capacity and the associated shorter range. In addition, the drive technology in an electric vehicle with range ...

New energy battery cabinet base station power generation equipment Base station energy cabinet: a highly

