



WALMER ENERGY

New Energy Range Extender Battery Cabinet Universal





Overview

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.

What is an electric vehicle with range extender?

In addition, the drive technology in an electric vehicle with range extender is simpler than that in a plug-in hybrid. This speeds up development times. In its traditional form, a REEV is a series hybrid where propulsion is purely electric; neither the small internal combustion engine nor the associated electric motor drives the wheels.

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 an example of a range extender?

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ZF unveils new range extender system in Shanghai

Apr 23, 2025 · At the Auto Shanghai, German supplier ZF presented its newly developed electric range extender system. The standout feature: it enables both generator and drive modes

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ZF Unveils Dual-Mode Electric Range ...

May 1, 2025 · German automotive supplier ZF has unveiled a new electric range extender system at the Auto Shanghai motor show, designed to ...

New Energy Range Extender Battery Cabinet Solution

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 . According to the 2012 ...

Range Extender: More Than Just Extra Range

Dec 3, 2025 · 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 ...

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