

Press Release

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Faster and farther than any Volvo car before: new ES90 adds 300km in 10 minutes and goes 700km on one charge

- The new Volvo ES90 is powered by 800-volt technology, helping to create a car that goes farther and charges faster than any electric Volvo before
- The ES90 can add up to 300 kilometres of range in just 10 minutes of charging and offers a driving range of up to 700 kilometres
- The ES90 also brings new progress in efficiency and sustainability, thanks to recycled and natural materials, and more

How about a new, fully electric Volvo car that can go just that little bit farther with less charging time? The upcoming Volvo ES90 does exactly that, thanks to our new 800V technology, which makes its debut in our latest fully electric model.

The benefits of an 800-volt electric system are numerous: your battery gets charged faster, your electric car gets an improved overall performance, and the electric system is more efficient compared with a 400-volt system.

Combine this with completely new battery management software and hardware, as well as a progressive design, and you get a car that goes farther and charges faster than any electric Volvo before. The ES90 can add 300 kilometres of range in just 10 minutes at 350kW fast-charging stations and offers a driving range of up to 700 kilometres under the WLTP testing cycle.

The ES90 is designed to be a premium Volvo car that gives you quality time with the people you love, providing you with peace of mind and balance, as well as a sense of convenience and control. A state-of-the-art electric system that enables faster charging and longer range is key to achieving that ambition. No matter where or how far your trip goes, the ES90 is designed to get you there reliably and comfortably.

“Our 800V technology marks another significant technological upgrade for our customers as we move towards full electrification,” says Anders Bell, our Chief Engineering and Technology Officer. “It makes our electric cars even more efficient, helps you charge your electric Volvo faster and go farther on a single charge.”

800-volt gives you more of everything

To create our new 800-volt system, every component in the electric system has been upgraded to be compatible with 800 volts, including the battery cells, e-motors, inverter, charging as well as the climate and thermal systems. That creates benefits in terms of charging, efficiency and performance.

A higher-voltage system means that it can deliver more power (in kilowatts, or kW) and range with the same current as a 400-volt system. This approach generates less heat, meaning your battery can be charged faster up to 350kW without overloading the electric system.

Our 800-volt system also contains lighter e-motors and other components, which reduces the car's overall weight. This also improves the system's efficiency, while boosting the car's acceleration and driving range.

The brand-new in-house-developed battery management software creates a more robust charging experience. Compared to other electric Volvo cars, our new software cuts the time it takes to charge your ES90 from 10 to 80 per cent by as much as 30 per cent, down to 20 minutes. This is partly thanks to the integration of adaptive charging software from Breathe Battery Technologies, a company we invested in last year via the Volvo Cars Tech Fund, our corporate venture capital arm.

Sustainability in focus

However, battery technology is not the only area in which the ES90 is a star performer. It also helps us make progress in other sustainability-related areas. For example, the ES90 is packed with recycled and natural materials that contribute to lower CO₂ emissions in production. 29 per cent of all aluminium and 18 per cent of all steel used in the ES90 is recycled, while the ES90 also contains 16 per cent recycled polymers and bio-based materials. The wood panels inside the ES90 are made from FSC-certified wood.

The ES90 also comes with our battery passport. Based on blockchain technology, this allows us to track raw materials. The passport tells you where the lithium, cobalt, nickel and graphite used in the battery originate from. It also highlights the CO₂ footprint of the full battery pack and other relevant information. For customers, this provides transparency about how we source raw battery material in a responsible way.

The ES90 will be revealed to the world on 5 March. Follow the livestream via es90event.volvocars.com

The small print

- The WLTP driving range of up to 700km translates to 740km under the CLTC driving cycle in China and applies to the all-wheel-drive variants with twin motors and 106kWh battery.
- Charging times can vary and depend on various factors such as outdoor temperature, battery condition and car condition. Our charging time was based on testing at 350kW charging facilities.

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Volvo Cars in 2024

For the full year 2024, Volvo Car Group recorded a record-breaking core operating profit of SEK 27 billion. Revenue in 2024 amounted to an all-time high of SEK 400.2 billion, while global sales reached a record 763,389 cars.

About Volvo Car Group

Volvo Cars was founded in 1927. Today, it is one of the most well-known and respected car brands in the world with sales to customers in more than 100 countries. Volvo Cars is listed on the Nasdaq Stockholm exchange, where it is traded under the ticker "VOLCAR B".

"For life. To give people the freedom to move in a personal, sustainable and safe way." This purpose is reflected in Volvo Cars' ambition to become a fully electric car maker and in its commitment to an ongoing reduction of its carbon footprint, with the ambition to achieve net-zero greenhouse gas emissions by 2040.

As of December 2024, Volvo Cars employed approximately 42,600 full-time employees. Volvo Cars' head office, product development, marketing and administration functions are mainly located in Gothenburg, Sweden. Volvo Cars' production plants are located in Gothenburg, Ghent (Belgium), South Carolina (US), Chengdu, Daqing and Taizhou (China). The company also has R&D and design centres in Gothenburg and Shanghai (China).

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