

# Battery performance test 600 kWh

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The Tectrans series includes versions designed for supercharging, long life, long range, and construction machinery, addressing key challenges in the electrification of heavy commercial vehicles, as reported by CNEVPost.

CATL's Tectrans batteries come in several configurations, each tailored to meet the demands of different commercial applications. The supercharging version boasts a peak charging capability of 4C, which allows it to charge up to 70% in just 15 minutes.

This makes it ideal for time-sensitive industries where efficiency is critical. The long-life version is designed to last up to 1.2 million miles, with a capacity of 600 kWh and a range of 310 miles on a single charge. CATL claims that these batteries will drastically reduce charging times and improve operational efficiency in sectors like mine transportation and construction machinery.

CATL aims to redefine industry standards by enabling electric heavy vehicles to perform across various use cases, breaking down barriers such as limited range and slow charging.

"We hope to reshape the industry standard so that pure electric heavy commercial vehicles can break the boundaries of application scenarios," said a company representative at the launch event.

For long-term use, CATL's Tectrans long-life battery promises an impressive 15-year lifespan, or about 3 million miles, even in high-energy consumption environments. This is especially valuable for industries like logistics and long-distance transport, where frequent charging and discharging put heavy wear on conventional batteries.

The long-range version extends the range up to 500 miles with a 1,000 kWh capacity, providing greater operational flexibility for companies that require long-haul capabilities.

With rising fuel costs and environmental concerns, these innovations offer significant cost savings. For example, a truck that covers 125,000 miles a year with the Tectrans long-life battery could save over \$130,000 in operating costs over an eight-year period compared to a diesel-powered vehicle.

The Tectrans battery series is already in mass production and is being used by over 20 heavy-duty vehicle manufacturers worldwide. These batteries also support battery-swapping models, which could further reduce downtime for vehicles that need to keep moving.

CATL's dominance in the market is evident. From 2020 to 2023, the company led the domestic heavy-duty truck battery installations for four consecutive years, holding a 30% market share in the construction



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machinery sector.

With the release of these new batteries, CATL aims to cement its position as a leader in the transition to electric heavy-duty vehicles, promising longer service lives, reduced maintenance costs, and faster charging times.

By addressing key concerns such as cost, lifespan, and range, CATL is positioning its Tectrans batteries as a viable alternative to diesel for the heavy-duty vehicle industry. The company's innovative approach promises a future where electric commercial vehicles are not just a sustainable choice, but also a more cost-effective one.

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