

Samsung launched a 9-minute rechargeable battery that travels nearly 1,000 km and has a lifespan of 20 years

Samsung recently introduced a completely new battery that allows charging the battery from 8% to 80% in just 9 minutes, has a range of 965 km on a single charge and has a lifespan of 20 years.

International exhibition of Battery Technology, Batteries and Energy Storage (Battery Expo 2024) takes place in Seoul, Korea.



Samsung's new electric vehicle battery quickly attracted attention in the electric vehicle battery industry, especially solid-state batteries.

The company revealed that its pilot solid-state battery production line is now fully operational. The first batches of solid-state batteries have now been delivered to electric vehicle manufacturers for testing between late last year and early this year and are receiving positive feedback.

Samsung emphasized that solid-state batteries are expected to be smaller and lighter, helping to reduce weight, take up less space and be safer than lithium-ion batteries currently used in most electric vehicles.

However, initially these batteries will be limited to the 'ultra-premium' electric vehicle segment, with a range of approximately 1,000 km due to high production costs.

Samsung's solid-state oxide battery technology boasts an energy density of 500 Wh/kg, while conventional electric vehicle batteries have only 270 Wh/kg. This increased density has the potential to double the driving range of current electric vehicles.

Currently, Samsung is developing more affordable lithium iron phosphate (LFP) and cobalt-free batteries.

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