

Can a Shenxing battery run a 700 kilometre range?

At the fringes of the trade fair in Beijing, CATL revealed that the existing Shenxing battery enabling a 700-kilometre range is currently being used in four series-production vehicles, but by the end of the year, Gao says this battery is to be used in over 50 models.

Is the Shenxing battery suitable for EVs?

CATL claims that the Shenxing battery is fit for any vehicle type. The first EV maker to use will be Avatr, a joint venture of CATL and Changan with Huawei's participation.

Will CATL's new battery reduce the cost of LFP batteries?

LFP batteries are typically cheaper but are known to offer lower energy density. CATL's new battery looks to change that. In January, CATL said it would reduce the cost of LFP batteries per kWh by a massive 50% by the middle of 2024. It looks like it's well on its way. You can watch CATL's 2024 product launch below.

What is the difference between a qilin and a Shenxing plus battery?

The Qilin uses nickel-manganese-cobalt (NMC) chemistry, whereas the new Shenxing Plus becomes the first lithium-iron-phosphate (LFP) battery to push past the 1,000-km mark. Both NMC and LFP chemistries are versions of the well-known lithium-ion battery, but NMC offers superior weight-based energy density versus LFP.

Which EV manufacturers are switching to LFP batteries?

Thus, many EV makers, including Tesla, are switching to LFP batteries inside their mid-range electric vehicles. CATL's main competitor, BYD, installed 9 GWh of power in LFP batteries in China, getting 43% market share, while CATL installed 6.9 GWh of energy in LFP, reaching 31% share.

When will Shenxing battery be available?

It will start mass production by the end of 2023 and be commercially available in the first quarter of 2024. Shenxing features a new graphite anode, new electrolyte formulation, thinner and safer separator, and better ion transport. The battery has reduced heat generation and is equipped with a new advanced battery management system (BMS).

The Shenxing Plus LFP battery has approx. 621 miles of range and can achieve approx. 373 miles of range with charges lasting 10 minutes. By Christian Hinton. Published: May 8, 2024. At Auto China 2024, CATL unveiled Shenxing Plus--an LFP battery that achieves a range above 1,000 km. (approx. 621 miles) with 4C superfast charging. CATL said the ...

The company claims the Shenxing Plus is the world's first LFP battery capable of a range above 1000km, thanks to energy density of 205Wh/kg. It also says it's the first LFP battery with 4C superfast charging,



first LFP battery that achieves a range above 1,000 kilometers with 4C superfast charging.

According to the company, the Shenxing LFP battery can achieve fast-charging over a wide temperature range, being able to charge from zero to 80 percent in 30 minutes even in temperatures as low ...

On August 16, CATL launched Shenxing, the world's first 4C superfast charging LFP battery, capable of delivering 400 km of driving range with a 10-minute charge as well as a range of over 700 km on a single full charge. Shenxing is ...

A major first for CATL is its fast-charging Shenxing Superfast Charging Battery, launched in August. Billed as the world's first 4C superfast charging LFP (lithium iron phosphate) battery, CATL says the unit can deliver 400 km (248 miles) of driving range with a ...

According to CATL, Shenxing is "the world's first 4C super fast-charging LFP battery." A crash course on batteries and charge rates In general, the C-rate, synonymous with the C rating, is the unit used to measure the speed at which a battery is fully charged or discharged. For example, a 1C battery takes about an hour to charge from 0 ...

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