HJ Solar Energy

Kia solid state battery

Overview

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Hyundai Motor Group, including Kia, doesn’t expect to launch solid-state EV batteries until 2030, at the earliest. The company said there’s “a lot of uncertainty” around the promising new battery tech. With others, including Mercedes-Benz, Toyota, Stellantis, Honda, and Chinese battery giants CATL.

TARRAGONA, Spain — Hyundai Motor Group’s solid-state batteries won’t be ready for Kia electric vehicles until around 2030 at the earliest, the carmaker’s global product planning chief predicts. Speaking Feb. 24 at the 2025 Kia EV Day, Spencer Cho said the complexity of the next-generation battery.

The whole world is talking about solid-state batteries and their promise of longer ranges, faster charging, and improved performance for electric cars. However, Hyundai and Kia are cooling the hype a bit, suggesting that the widespread commercial availability of this technology is still years away.

Factorial has developed breakthrough solid-state technology that addresses key issues holding back widescale consumer adoption of electric vehicles: driving range, and safety. Factorial’s advances are based on FEST™ (Factorial Electrolyte System Technology), which leverages a proprietary solid.

Factorial Energy, a Massachusetts-based developer of solid-state battery technology, announced cooperation with Hyundai Motor Co. and Kia Corp last week. Hyundai and Kia will integrate Factorial’s technology into the cell, module, and system levels of future vehicles under the terms of the.

Solid state batteries are a higher-density battery made out of solid electrodes and solid electrolytes, and are already commonly used in a raft of different things. They’re big news for EVs as for most they represent the next big step in improving recharging times, improving range, and closing the. Will Hyundai & Kia improve battery technology?

In the meantime, Hyundai and Kia, which pool resources, plan to improve existing battery tech, including lower-cost lithium iron phosphate (LFP) and lithium nickel manganese cobalt (NMC). Rivals are racing ahead, but will they deliver?

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Which auto companies are developing solid-state batteries?

Japanese auto giants, Toyota, Honda, and Nissan are all developing solid-state batteries to power their next-gen electric models. Honda unveiled its all- solid-state battery demo production line for the first time in November. Toyota is teaming up with Japanese oil giant Idemitsu to commercialize its solid-state batteries.

Will Hyundai make a solid-state car?

The manufacturers won’t be doing it alone, though, and they will work together with a company called Factorial Energy (based in Woburn, Massachusetts), which is already developing its own solid-state tech. In fact, according to the official press release from Hyundai, Factorial’s solid-state breakthrough.

Are EV muscle cars based on a solid-state battery?

The EV muscle cars will be based on Factorial’s FEST (Factorial Electrolyte System Technology), which offers an energy density of over 390 Wh/kg. Japanese auto giants, Toyota, Honda, and Nissan are all developing solid-state batteries to power their next-gen electric models.

Who makes all-solid-state batteries?

Honda unveiled its all- solid-state battery demo production line for the first time in November. Toyota is teaming up with Japanese oil giant Idemitsu to commercialize its solid-state batteries. On Thursday, Idemitsu announced a new large-scale lithium sulfide plant to supply the raw material for Toyota’s all-solid state batteries.

When will Hyundai's all-solid-state battery pilot line come out?

Like most, BYD and CATL don’t expect to mass produce the new batteries until 2030 at the earliest. Earlier this month, local reports claimed Hyundai will reveal its all-solid-state battery pilot line in March, so we may learn more soon.

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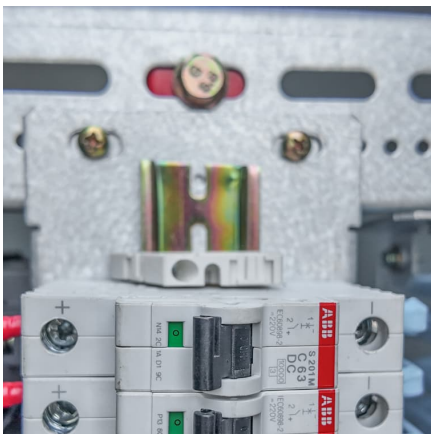

Kia says solid-state batteries won't be ready for EVs ...

Kia predicts solid-state batteries won't be ready for its EVs until 2030 at the earliest, saying it sees more efficient results from incremental ...

Hyundai, Kia Announce Solid State Battery With Factorial Energy ...

Toyota looks to be the first to have such a battery in a production EV, but Korea's big automotive duo, comprised of Hyundai and Kia, has just announce its own project ...

Solid-state batteries aren't likely for Hyundai or Kia before 2030

Hyundai and Kia likely won't have solid-state batteries ready for electric vehicles before the end of the decade, an executive said in an interview with Automotive News ...

Kia says solid-state batteries won't be ready for EVs before 2030

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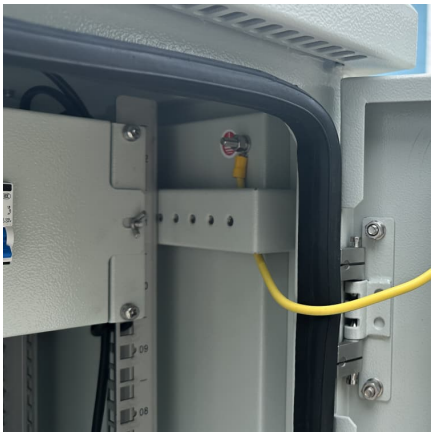
improvement in today's battery ...



Kia Unveils Revolutionary Solid-State Battery Technology for Next

In a groundbreaking announcement that has sent shockwaves through the automotive industry, Kia revealed its latest innovation in electric vehicle (EV) technology: a ...

[Hyundai and Kia Delay Solid-State EV Battery Launch ...]

While Hyundai and Kia are still in the early stages, other companies are actively working on solid-state battery technologies. Mercedes-Benz recently announced it has begun testing the "world's first" production EV ...

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Solid-state battery reality check

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Hyundai, Kia confirm they're diving into the world of solid state

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Hyundai, Kia and Factorial Energy to Jointly Develop Solid-State

Based in Woburn, Massachusetts, Factorial Energy has developed breakthrough solid-state batteries that offer 20 to 50 percent longer range per charge, ...

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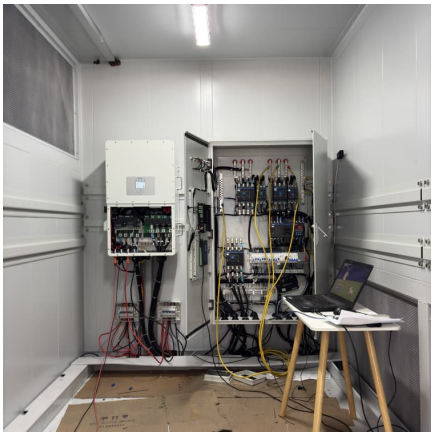

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