

Micronesia quantumscape solid state battery

Does QuantumScape manufacture lithium-metal battery separators?

SAN JOSE, Calif., December 05, 2024 -- (BUSINESS WIRE)-- QuantumScape Corporation (NYSE: QS), a leader in solid-state lithium-metal battery technology, today announced that next-generation heat treatment equipment for its separator production process, Cobra, has been developed, delivered, installed and released for initial separator processing.

What is QuantumScape battery technology?

QuantumScape is on a mission to transform energy storage with solid-state lithium-metal battery technology. The company's next-generation batteries are designed to enable greater energy density, faster charging and enhanced safety to support the transition away from legacy energy sources toward a lower carbon future.

How will QuantumScape's lithium-metal solid-state batteries work?

QuantumScape's lithium-metal solid-state batteries will charge faster, go farther, last longer and operate more safely than today's EVs and gas-powered vehicles -- bringing us closer to that lower carbon future. Do you want to help build one of the most critical parts of the future energy economy?

Will QuantumScape be able to manufacture a gigawatt-hour battery in 2025?

This milestone is the culmination of years of advanced R&D on QuantumScape's fast separator production process - the core innovation that will allow its battery technology to be manufactured at gigawatt-hour scale. The company is targeting Cobra integration into its cell production baseline in 2025.

Is QuantumScape a self-assembled EV battery?

Image (cropped): The California startup QuantumScape is one key step closer to commercial-scale production of its new solid state EV battery, featuring the only known self-assembling anode fabrication process in the auto industry (courtesy of QuantumScape).

Can QuantumScape battery technology increase the range of electric vehicles?

Q: What is the potential for QuantumScape battery technology to increase the range of electric vehicles? The higher energy density of QuantumScape solid-state lithium-metal cells, at our commercial target of 800-1,000 Wh/L (as of Dec. 2023), could translate to more range in the electric vehicle, depending on the vehicle design.

QuantumScape is on the brink of transforming the electric vehicle landscape with its innovative solid-state batteries, promising ranges of up to 500 miles and lifespans of 300,000 ...

The company's next-generation solid-state lithium-metal battery technology is designed to enable greater energy density, faster charging and enhanced safety to support the transition away from legacy energy sources toward a lower carbon future.

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2 ???· QuantumScape is on the brink of transforming the electric vehicle landscape with its innovative solid-state batteries, promising ranges of up to 500 miles and lifespans of 300,000 miles. ... QuantumScape is developing solid-state batteries that could significantly enhance electric vehicle range and longevity. ... The electric vehicle battery ...

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Solid-state battery developer QuantumScape shared another critical milestone today: its "Cobra" separator production process has been developed, delivered, installed, and is ready for...

The company"s next-generation solid-state lithium-metal battery technology is designed to enable greater energy density, faster charging and enhanced safety to support the transition away...

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