



Quantumscape battery Kiribati

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.

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.

Does QuantumScape make EV batteries?

In a public letter to shareholders posted on October 23, QuantumScape announced that it has begun producing B Samples of its new QSE-5 solid state EV battery cells, and shipping them to customers for testing.

Does QuantumScape have a solid-state battery?

One year after initial deliveries of solid-state battery prototypes to its automotive partners, QuantumScape is receiving additional praise from PowerCo - the battery-centric subsidiary of Volkswagen Group - for the potential of its technology.

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.

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?

Solid-state battery developer QuantumScape has shared its latest milestone, delivering prototype samples to OEMs en route to commercialization and EV implementation one day. By delivering the ...

QuantumScape is an American company that develops solid-state rechargeable lithium metal batteries for electric cars. ... On June 26, 2022, the company announced the production of a solid-state battery with a range of 650 km and a charge time of 15 minutes. [9]

Achieving this final key goal of 2024 enables the company's higher-volume sample



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production in 2025. 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, ...

SAN JOSE, Calif.- QuantumScape Corporation (NYSE: QS), a leader in the development of next-generation solid-state lithium-metal batteries for use in electric vehicles, today announced the release of an independent third-party laboratory testing report on the performance of its solid-state lithium-metal battery cells. QuantumScape's single ...

QuantumScape's newly-released results, based on testing of single layer battery cells, show its solid-state separators are capable of working at very high rates of power, enabling a 15-minute charge to 80% capacity, faster than either conventional battery or alternative solid-state approaches are capable of delivering.

LFP: Challenges and Opportunities. Like many inventions that have made the lithium-ion battery possible, LFP cathode material was discovered in the lab of Nobel-laureate Professor John Goodenough. Unlike other ...

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 ...

As lithium-ion batteries have become ubiquitous, their safety risks have increasingly been a focus of public concern. Although electric vehicles are far less likely to catch fire than combustion-engine vehicles, once a lithium-ion battery fire starts, it can be difficult to extinguish. The fire risk from conventional liquid-electrolyte lithium-ion batteries has led to ...

QuantumScape Corporation (NYSE: QS), a leader in next-generation solid-state lithium-metal battery technology, today announced it started customer shipments of Alpha-2 prototype battery cells, fulfilling a goal for 2024. Alpha-2 prototypes are a significant milestone on the roadmap to deliver QSE-5, QuantumScape's first planned commercial product.

Battery scientists are familiar with the term "C/3 cycling," which means the battery is charged in three hours and then discharged at the same rate. This test attempts to approximate freeway driving and a modest recharge rate, but in the real world, drivers want to be able to cover long distances quickly, which means faster recharging times.

QuantumScape has agreed to a \$47.5 million settlement with shareholders to resolve the lawsuit. Affected investors can now file a claim to receive their payment. Overview. QuantumScape went public in November 2020 through a merger with Kensington Capital Acquisition, aiming to transform the EV industry with its innovative solid-state battery ...

Achieving this final key goal of 2024 enables the company's higher-volume sample production in 2025. SAN JOSE, Calif.--(BUSINESS WIRE)--Dec. 5, 2024-- QuantumScape Corporation (NYSE: QS), a leader in



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solid-state lithium-metal battery technology, today announced that next-generation heat treatment equipment for its separator production ...

He added the solid-state battery will deliver about 30% more range than a liquid-type battery of the same size and weight. This means that the existing VW ID.3 GTX, specified to cover 605km on a single charge, will be capable of 780km. Fig 4: Model of a QuantumScape QSE-5 solid-state battery for electric vehicles. QuantumScape.

QuantumScape is a San Jose-based battery company founded 10 years ago by Jagdeep Singh, a computer scientist and co-founder of Infinera Corporation, a major telecom component supplier, and Tim ...

PowerCo, Volkswagen Group's battery firm, and QuantumScape have announced they have entered into an agreement to industrialise QuantumScape's next-generation solid-state lithium-metal battery ...

SAN JOSE, Calif. - January 27, 2022 - QuantumScape Corporation (NYSE: QS), a leader in the development of solid-state lithium-metal batteries, today released data showing its battery cells have completed 400 consecutive 15-minute fast-charging (4C) cycles from 10% to 80% of the cell's capacity while retaining well above 80% of the initial energy - a first for this type of ...

When heated all the way to 300 °C, the QuantumScape battery passes with a result of Hazard Level 3: minor venting of gas from the liquid catholyte is the only significant effect. Thermal stability testing of a conventional cell (left) and a 24-layer Alpha-2 prototype cell. Note the ambient temperature in each case: the conventional cell on the ...

One year after initial deliveries of solid-state battery prototypes to its automotive partners, QuantumScape is receiving additional praise from PowerCo - the battery-centric subsidiary of ...

Updated March 22, 2021. Following the announcement of QuantumScape's solid-state lithium-metal battery technology results in December 2020, there has been a lot of excitement in the industry related to the potential of this new technology and the impact it could have on the automotive EV powertrain.

Battery Showcase. December 8, 2020. View this Presentation PDF Format Download ... At QuantumScape, we promise to treat your data with respect and will not share your information with any third party. You can unsubscribe to any of the investor alerts you are subscribed to by visiting the "unsubscribe" section below. If you experience any ...

SALZGITTER, Germany & SAN JOSE, Calif.--(BUSINESS WIRE)-- Volkswagen Group's battery company PowerCo and QuantumScape (NYSE: QS) today announced they have entered into a groundbreaking agreement to industrialize QuantumScape's next-generation solid-state lithium-metal battery technology. Upon satisfactory technical progress and certain royalty ...



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Solid-State Battery Landscape. February 16, 2021. View this Presentation PDF Format Download (opens in new window) ... At QuantumScape, we promise to treat your data with respect and will not share your information with any third party. You can unsubscribe to any of the investor alerts you are subscribed to by visiting the "unsubscribe ...

QuantumScape's planned first commercial product, QSE-5, is a ~5 amp-hour cell designed to meet the requirements of automotive applications. Here, we'll walk through the various elements of the cell specifications and explain some of the ...

QuantumScape's solid-state lithium-metal batteries are designed to charge faster, provide longer range, and operate more safely than their lithium-ion counterparts. QuantumScape opened an office in Kyoto, Japan in 2022 and has collaborated with battery tool manufacturers and materials suppliers across the Asia-Pacific region for many years.

SAN JOSE, Calif.-(BUSINESS WIRE)-QuantumScape Corporation (NYSE: QS), a leader in next-generation solid-state lithium-metal battery technology, today announced it started customer shipments of Alpha-2 prototype battery cells, fulfilling a goal for 2024. Alpha-2 prototypes are a significant milestone on the roadmap to deliver QSE-5, QuantumScape's first planned ...

In this Q& A Forum, QuantumScape executives discuss frequently asked questions about our technology and state of the business. Participants (clockwise from top left corner): Jagdeep Singh, Founder and CEO, John Saager, Head of Investor Relations, Celina Mikolajczak, Vice President of Manufacturing Engineering, and Tim Holme, Founder and CTO.

QuantumScape Corporation, a leader in solid-state lithium-metal battery technology, announced that next-generation heat treatment equipment for its separator production ...

SAN JOSE, Calif., December 05, 2024--QuantumScape Corporation (NYSE: QS), a leader in solid-state lithium-metal battery technology, today announced that next-generation heat treatment equipment ...

In its Q3 report, QuantumScape added that the B sample cells have an energy density of 800 Wh/L and can fast charge from 10 to 80 percent in just 15 minutes. The battery design also ensures reduced ...

SALZGITTER, Germany & SAN JOSE, Calif. -- July 11, 2024 -- Volkswagen Group's battery company PowerCo and QuantumScape (NYSE: QS) today announced they have entered into a groundbreaking agreement to industrialize QuantumScape's next-generation solid-state lithium-metal battery technology. Upon satisfactory technical progress and certain royalty ...



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