

Solar Energy South Africa

Quantumscape solid state battery Togo



Overview

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?

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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.

Is QuantumScape making EV batteries?

California-based QuantumScape, a startup making solid-state batteries for electric vehicles (EVs), has started low-volume production of its B-sample cells. According to the company's Q3 report, it will soon ship them to EV makers for implementation testing. The recent surge in EV adoption is an encouraging trend in electrified transportation.

What is QuantumScape's next-generation lithium-metal battery technology?

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. For more information, visit [Forward-Looking Statements](#).

What is QuantumScape battery separator?

Founded in 2010, QuantumScape has spent most of the last decade perfecting solid-state batteries. Its major advancement came about four years ago when it developed a ceramic separator to replace the polymer separator conventionally used in batteries.

Will QuantumScape bring lithium-metal battery technology to market?

“This agreement is a major step in our long-term global scale-up strategy to bring QuantumScape’s solid-state lithium-metal battery technology to market,” said Dr. Siva Sivaram, CEO and president of QuantumScape.

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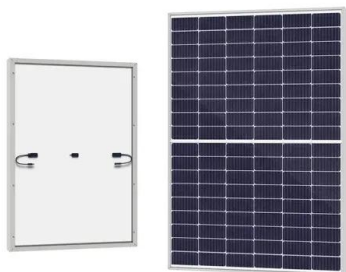


QuantumScape Corporation to Host and Livestream Solid-State Battery

QuantumScape Corporation ("QuantumScape"), a leader in the development of next generation solid-state lithium-metal batteries for use in electric vehicles (EVs), announced today that it will be providing a first look at its solid-state electric vehicle battery technology at its "Solid-State Battery Showcase" on December 8, 2020, at 11am ET. The event can be ...

QuantumScape Releases Performance Data for its Solid-State Battery

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



VW-backed QuantumScape's solid-state batteries ace the first tests

QuantumScape, an American company counting Volkswagen among its biggest investors, reports a groundbreaking achievement with its latest solid-state battery technology. The battery completed over 1,000 charging cycles with an impressive 95% capacity retention, meaning that a car can go 311,000 miles and still retain the majority of its original

Solid-State Battery Performance Data , QuantumScape

QuantumScape's solid-state battery is designed to enable up to 80% longer range compared to today's lithium-ion batteries. Previous attempts to create a solid-state separator capable of working with lithium metal at high rates of power generally required compromising other aspects of the cell (cycle life, operating temperature, safety)



QuantumScape's Solid-State Battery Retains 95% Capacity

QuantumScape's Solid-State Battery Retains 95% Capacity After 300,000+ Miles: Volkswagen recently tested QuantumScape's solid-state lithium metal battery and found it 'practically doesn't age' News carscoops Open. Locked post. New comments cannot be posted. Share

QuantumScape

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 battery technology. ...



QuantumScape

Solid-State Battery Landscape. February 16, 2021. At QuantumScape, we promise to treat your data with respect and will not share your

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QuantumScape's solid-state batteries offer 500k km, no range loss

QuantumScape is an advanced battery technology company that has been working for over a decade to develop scalable, energy-dense solid-state battery cells that can one-day power EVs that are safer



QuantumScape Is Happy With Its SSB, But Shouldn't It Fear

...

CATL's condensed cells pose quite a threat to the startup's solid-state battery. CATL disclosed that its new cells have an energy density of around 500 Wh/kg, which will allow a 100- kWh battery

QuantumScape & Volkswagen Sign Agreement for Joint Venture

SAN JOSE, Calif.-(BUSINESS WIRE)- QuantumScape Corporation, (NYSE: QS, or "QuantumScape") today announced that it has entered into an agreement with Volkswagen Group of America, Inc. to select the location of their joint-venture solid-state battery pilot-line



facility by the end of 2021. The companies currently contemplate Salzgitter, Germany for the location.

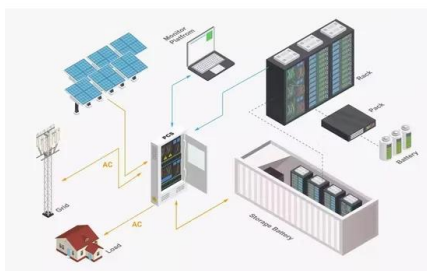
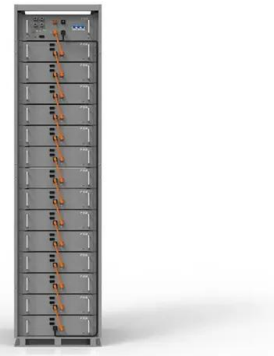


Sustainability at QS

Our solid-state lithium-metal battery technology is designed to overcome the limitations of conventional batteries through our key innovation -- a proprietary solid-state ceramic separator. This separator is designed to not only allow us ...

Sustainability at QS

Our solid-state lithium-metal battery technology is designed to overcome the limitations of conventional batteries through our key innovation -- a proprietary solid-state ceramic separator. This separator is designed to not only allow us to eliminate the graphite/silicon host material from the anode, but also to manufacture our cell entirely



Quantumscape just hit the jackpot with NEW Solid-state battery ...

Quantumscape just hit the jackpot with NEW Solid-state battery (fully charged in 15 minutes, only 20% degradation after 400 cycles) What I would want to know from Quantumscape is the longevity of the battery. Many Tesla's (the older ones anyway) are having to change their HV batteries because of a BMS imbalance so my question is how long

Quantumscape Races To

Deliver Its Breakthrough Solid State Battery ...

Quantumscape was started in 2010 from from Stanford University, with its early backers including Bill Gates-backed venture funds. The JV with VW to produce solid-state battery cells, starting in 2024, for VW's electric vehicles was its big break, launching it into the limelight and the chance of an entry into the big league.



QuantumScape's Breakthrough in Solid-State Battery ...

QuantumScape is developing solid-state batteries that could significantly enhance electric vehicle range and longevity. Their collaboration with Volkswagen aims for the production of one million batteries each year.

Quantumscape solid-state battery holds 400 charging cycles

Solid-state battery specialist and Volkswagen partner QuantumScape has published data showing that its lithium metal solid-state battery cells retained more than 80 per cent of their initial. Quantumscape solid-state battery holds 400 charging cycles. By Chris Randall.
 01.02.2022 - 15:22 updated on 10 May 2023.
 Batteries; battery cells;



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