

# **Catl solid-state battery cells**





## Overview

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November 11, 2024: Research by CATL, the largest lithium cell manufacturer in the world, into solid-state batteries is looking set to bear fruit. According to Chinese media source LatePost, CATL has entered into trial production of 20Ah samples. Such sampling means that the next step for the.

The world's largest EV battery maker is advancing a new type of battery, promising higher energy density. According to a new local report, CATL is investing heavily while ramping up its workforce to bring all-solid-state EV batteries to market. With trial production reportedly kicking off, we could.

CATL's prototype solid-state batteries have an impressive energy density of 500 Wh/kg, a 40 percent improvement over current lithium-ion batteries that typically reach 350 Wh/kg. CATL is developing solid-state batteries using a promising technology called the sulfide route. (Representational image).

CATL is aiming to produce pure solid-state batteries in small quantities for the first time in 2027. A company representative describes large-scale production as "still challenging". This is the first time ever that the world's largest manufacturer of electric car batteries has outlined a timetable.

Chinese battery manufacturers are celebrating new product successes everywhere: The first sodium batteries (BYD, CATL, 2021) are being produced in Asia, high-performance cooling/heating systems (Qilin battery, 2022) and new cell chemistries (LFP) and pack designs (cell-to-pack ) come onto the.



New reports confirm CATL has entered the trial production phase for its new solid-state batteries. Solid-state batteries offer several advantages over conventional lithium-ion batteries. They promise higher energy density, improved safety, and faster charging times. They could mean longer driving.



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### [CATL announces solid-state battery production and ...](#)

For mass market electric vehicle produced in higher quantities, however, CATL just detailed a new battery that is the first LFP pack to allow more than a 600-mile range on a charge.

### **China: CATL's solid-state EV battery to enter mass production in ...**

With a dedicated team of 1,000 researchers and billions invested, CATL is making significant strides in solid-state battery technology.



### **CATL All solid state battery begins trial production of 20Ah sample**

In order to solve the problem of solid electrode and electrolyte film formation process, CATL has opened up the dry/wet method of pole piece preparation and battery core integrated molding ...

### [CATL accelerates development of next-generation ...](#)

CATL, the world's leading EV battery manufacturer, is taking big steps in the development of all-solid-state batteries,



promising higher energy density and longer driving ranges for electric cars.



[CATL Advances All-Solid-State Battery Development with](#)

In April, CATL's chief scientist, Wu Kai, revealed the creation of a 10 Ah verification platform for all-solid-state battery cells, stating that the company aims to begin ...



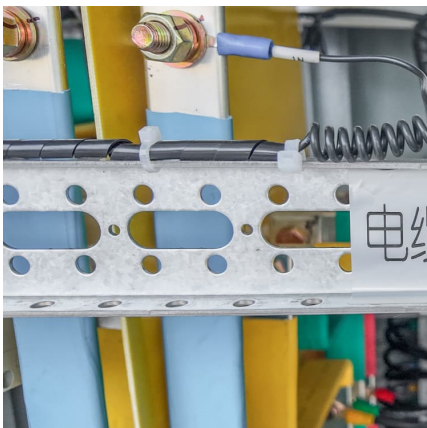
**CATL accelerates development of next-generation solid-state EV**

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**CATL expects to produce its own solid-state batteries ...**

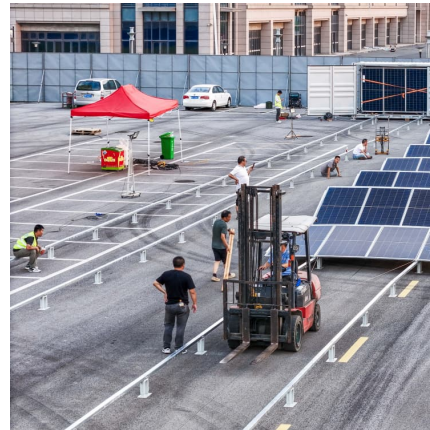
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[CATL ups bet on all-solid-state batteries, begins ...](#)

Chinese power battery giant CATL has increased its R& D investment in all-solid-state batteries this year, having expanded its R& D team for the program to over 1,000 people, local media outlet LatePost reported today.



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[Prof. Fichtner - CATL "Condensed Battery"](#)

The biggest "battery quake" so far for 2023: CATL announces its "Condensed Matter Battery" cells with over 500 Wh/kg on April 19th! And we ask ourselves: Could this be the first mass-produced solid-state battery? And ...



[Prof. Fichtner - CATL "Condensed Battery"](#)

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