

What is CATL 'condensed battery' technology?

CATL is showing novel 'Condensed Battery' technology in Shanghai, which claims an energy density of 500 Wh/kg at the cell level. The Chinese battery giant considers it suitable for electric aircraft but also envisions use in road vehicles, with series production to start this year.

Does CATL have a condensed battery?

CATL first introduced its condensed battery technology in April 2023, claiming it would achieve energy densities up to 500 Wh/kg--nearly twice the density of Tesla's 4680 cells (~250 Wh/kg). By early 2024, the company had successfully powered a 4-ton electric aircraft with this technology, proving its viability in demanding, high-power applications.

What is a 'condensed matter' battery?

The Chinese battery giant considers it suitable for electric aircraft but also envisions use in road vehicles, with series production to start this year. Officially referred to as "Condensed Matter" battery, the new cells exhibit high safety and precisely that high energy density, as CATL's chief scientist Wu Kai stated at the trade show.

Can a condensed matter battery achieve mass production?

Chinese battery industry heavyweight CATL has unveiled a novel condensed matter battery technology with an energy density of up to 500 Wh/kg. The company said it can achieve mass production within this year. On April 19, CATL unveiled its condensed battery technology at Auto Shanghai.

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 ...

CATL condensed matter battery - a new battery cell and advantages prospects What kind of technical route is the condensed matter battery? CATL said that compared with all solid state battery, ...

Chinese battery manufacturer CATL has recently unveiled a groundbreaking innovation in battery technology known as the condensed battery.

On April 19th, CATL released an innovative and cutting-edge battery technology at the Shanghai International Automobile Industry Exhibition - Condensed Matter Battery, with a single ...

In the rapidly evolving world of electric vehicles (EVs), breakthroughs in battery technology are often the key to unlocking the next leap forward. One of the most significant ...

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CATL, a leading Chinese battery maker, has unveiled a new type of semi-solid state battery with high energy density for aviation and ...

On April 19, CATL launched condensed battery, an innovative cutting-edge battery technology in Auto Shanghai. With an energy density of up to 500 Wh/kg, it can achieve high energy density and high ...

Image source: CATL The battery industry is on the brink of a major transformation with the introduction of condensed batteries--a new high-energy-density technology that could redefine ...

Table: Comparative analysis of CATL condensed battery vs. liquid and solid-state technologies. CATL's claim of 500 Wh/kg would place condensed matter batteries at the top end of ...

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