

Chinese battery maker CATL has unveiled a "condensed battery" boasting 500Wh/kg energy density at Auto Shanghai. And this is good news for electric vehicles . Let's just give that number a ...

gravimetric energy density:  $>504$  Wh/kg volumetric energy density:  $>1321$  Wh/l test conditions: 77 °F (25°C) and C/10 charge/discharge current (aside C/100 charging at the top, above 4.37 V)

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Herein, a 700 Wh kg  $-1$ -level rechargeable Li-S pouch cell is successfully constructed. The pouch cell is designed at 6 Ah level with high-sulfur-loading cathodes ( $7.4$  mg S  $\text{cm}^{-2}$  on each side), low electrolyte to sulfur (E/S) ratio of 1.7 g electrolyte g S  $^{-1}$ , and limited anode excess (50 mm Li anodes with a negative/positive electrode capacity (N/P) ratio around 1).

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The batteries' energy density stands at more than 160 watt-hours per kilogram (Wh/kg) compared with an average energy density of 200-300Wh/kg for a lithium-ion battery. This figure can vary significantly depending on the chemistries used. Peter Carlsson, CEO and co-founder of Northvolt, said: "The world has put high hopes on sodium-ion ...

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This cell uses a silicon-based anode, the working voltage range is 2.4-4.37V, and the cathode is also a high-nickel ternary. However, due to its low voltage, only 3.45V, the specific energy of >500 wh kg battery needs to be more than 65% of the mass of the cathode material.

The 500 Wh/kg battery platform significantly expands boundaries for customers and is a tailored solution for applications that require maximum discharge times without compromising key features such as aircraft payload and without having to increase vehicle weight. The new batteries demonstrate both high gravimetric energy density (Wh/kg) and ...

It is understood that at present, Toyota has 1331 solid-state battery related patents worldwide, ranking first in the world, Panasonic 272 ranked second. In China, Nio announced a solid state battery with a lithium energy density of 150 Wh/kg at Nio Day on January 9 last year, which it plans to mass-produce in the fourth quarter of 2022.

Sodium-ion battery technology is widely seen to be the most commercially mature electrochemical-based alternative to lithium-ion. For comparison, lithium-ion technology generally has a Wh/kg energy density of ...

The Battery Energy Density Calculator provides crucial metrics for battery manufacturers, designers, and end-users by calculating the gravimetric (Wh/kg) and volumetric (Wh/L) energy density of batteries. These calculations help determine how much energy a battery can store relative to its size and weight, an essential factor in battery selection and design ...

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