



QILING Lithium Battery

What is a CATL Qilin battery?

CATL unveiled its 3.0 CTP (cell-to-pack) Qilin battery back in 2022 and on paper, its specs look impressive. The battery production reportedly achieved the level required for reliable distribution, which means the first cars with the 1,000 km battery are about to hit the market.

How powerful is a qilin battery?

In terms of performance, Qilin has an energy density of up to 255Wh per kilogram, so it can easily extend the single-charge driving range of an EV to 1,000 kilometers. Furthermore, Qilin batteries that are now in mass production deliver around 13% more power than 4680-type batteries with the same capacity. Source: CATL

How far can a CATL Qilin battery go?

The true potential of the CATL Qilin battery system will be unleashed by the new version of the Zeekr 001 model, which is promised to offer 622 miles (1,000 km) of range, as the first series-produced model. Of course, all the numbers relate to the CLTC test cycle. There are also other manufacturers awaiting the CATL's latest battery tech.

How a qilin Battery Works?

The battery production reportedly achieved the level required for reliable distribution, which means the first cars with the 1,000 km battery are about to hit the market. The biggest improvement introduced by the Qilin battery is the CATL's blade cells are stacked vertically on a common plate, but each cell is separated by another thin plate.

Is Qilin battery better than 4680?

With the same chemistry and the same pack size, the Qilin Battery delivers a 13 percent increase in power compared to the 4680 battery, providing an overall improvement in range, fast charging, safety, life, efficiency, and low-temperature performance, according to CATL.

Did CATL start production of qilin battery systems?

The latest media reports from China say that CATL began series production of its new Qilin battery systems. According to The Paper (via CnEVPost), the company launched mass production to support the upcoming launch of the all-electric Zeekr 009 model (in Q2 2023), which will be the first model, equipped with the Qilin battery.

At Auto China 2024, CATL unveiled Shenxing PLUS--the world's first LFP battery that achieves a range above 1,000 kilometers with 4C superfast charging. Within eight months after the launch of the Shenxing ...

On June 23, CATL launched Qilin, the third generation of its CTP (cell-to-pack) technology. With a record-breaking volume utilization efficiency of 72% and an energy density of up to 255 Wh/kg, it achieves



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the highest integration level worldwide so far, capable of delivering a range of over 1,000 km in a breeze.

CATL announced its third-generation CTP (cell-to-pack) battery Qilin (Kirin) on June 23, 2022. Since then, the latest progress in the development of this solution for powering EVs has received widespread attention from the ...

The launch Xiaomi SU7 max battery is made by CATL and appears to be the Qilin approach with Xiaomi integrating this as a Cell to Body design.

The Qilin Battery sets a new record for volume utilization at over 72 percent, making it the most integrated battery in the world today, according to CATL. The battery can reach an energy density of 255 Wh/kg, easily allowing ...

According to recent reports out of China, the world's leading battery manufacturer CATL has successfully achieved mass production of its energy dense Qilin batteries capable of delivering 1,000...

Die Qilin-Batterie wurde in allen Komponenten neu durchdacht, um eine solche Verbesserung zu erreichen. Sie wird eine Energiedichte von 255 Wh/kg haben. Nach den Versprechungen von CATL werden die damit ausgerüsteten Elektroautos mit einer einzigen Ladung 1.000 km weit fahren können. Dies ist eine sehr vage Information, aber sie vermittelt eine klare Vorstellung ...

The battery pack in the 2024 AVATR 12 is the CATL Qilin, a Cell to Pack design and in this case using NMC chemistry. The battery pack has a total energy of 94.5kWh and is described "Adaptive to DC fast charging piles with charging voltage of 450 V~900 V".

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This improved density together with the new cooling system, can apparently deliver 1,000 km of range and replenish the battery in 10 minutes when empty. Qilin battery will be available in two chemistries - industry-standard ternary composition and the headliner 255Wh/kg energy density, and the cheaper option - the LFP composition ...

With the same chemical system and the same pack size, it can deliver 13% more power than the 4680 battery, accomplishing an all-round improvement in range, fast-charging, safety, service life ...

Stellantis Promises Half-Price Lithium-Sulfur EV Batteries "By 2030" Tesla Cybertrucks Are Piling Up On Used Car Lots "Game Changer": Honda Solid-State EVs With 620 Miles Of Range Coming ...

By using FIC coating technology on cathodes, a self-dormant passivation interface is developed to reduce the

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activity of lithium ions during storage and reactivate the ions when the battery is used. The side reactions on the cathode could be massively reduced during cycles and storage.

Last August, CATL presented the Shenxing battery, an LFP pack capable of adding 400 km of range in 10 minutes. This year, the company has rolled the tech into the Shenxing Plus, which combines ...

Dr. Wright erläutert neben der „Qilin“-Batterie auch ein durch CATL vorangetriebenes „modulares Battery Swapping“. Dabei wird es bei Elektroautos möglich sein, Teile eines herkömmlichen Batterie-Packs (nur) modular mitzuführen und dieses ebenfalls minutenschnell gegen passgenaue Packs zu tauschen - je nach individuellem Bedarf und ...

The Zeekr 140kWh CATL Qilin battery has a number of interesting design features and we need to see more details to fully understand how the cell vent gas is managed. The lifetime cell expansion and how that ...

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