



# Composition of Huawei s new liquid flow battery



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## Overview

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The tech giant has recently unveiled a patent for a sulfide-based solid electrolyte, a crucial component for next-generation lithium-ion batteries. This innovative technology addresses a long-standing challenge in the battery industry: the degradation of liquid electrolytes.

Smartphone giant and EV investor Huawei has challenged CATL and BYD's supremacy by inventing a pioneering new battery that blends an incredible range of up to 3000km with a charging time of just five minutes. Taking the battery-making industry by surprise, the fresh filing is for a solid-state.

The tech giant has recently unveiled a patent for a sulfide-based solid electrolyte, a crucial component for next-generation lithium-ion batteries. This innovative technology addresses a long-standing challenge in the battery industry: the degradation of liquid electrolytes. By replacing these.

Huawei has stepped up its ambitions in advanced energy storage with a patent for a sulfide-based solid-state battery that offers driving ranges of up to 3,000 kilometres and ultra-fast charging in just five minutes. The development signals a significant push by the tech giant to stake a claim in.

Traditional "wet" solid-state cells still suspend ceramic or sulfide particles in a gel electrolyte. Dry designs press a thin, fully dense solid electrolyte directly against a lithium-metal anode, eliminating flammable solvents, boosting voltage windows, and taking the theoretical gravimetric.

Huawei has recently issued a new patent regarding solid-state battery tech. It would be a wonderful implementation in the energy storage sector. It will further act as a vital element for lithium-ion cells, ensuring faster charging and higher energy efficiency. A solid-state battery is an.

In October 2022, the world's largest power and capacity 100-megawatt liquid flow



battery energy storage peak-shaving power station was officially connected to the grid in Liaoning. With the joint release of the "14th Five-Year Plan" New Energy Storage Development Implementation Plan and the "Notice.



## Composition of Huawei s new liquid flow battery



[Huawei's huge battery breakthrough! New solid state tech ...](#)

Smartphone giant and EV investor Huawei has challenged CATL and BYD's supremacy by inventing a pioneering new battery that blends an incredible range of up to ...

### **Huawei patents a new solid-state battery with 1,860 miles range**

By doping sulfide electrolytes with nitrogen, Huawei improves electrochemical stability and safety and significantly slows down degradation, two of the biggest hurdles keeping solid-state tech ...



### **Huawei's 3,000km solid-state battery patent with 5-minute charge**

Huawei has stepped up its ambitions in advanced energy storage with a patent for a sulfide-based solid-state battery that offers driving ranges of up to 3,000 kilometres and ultra ...

[Huawei files patent for a new solid-state battery tech](#)

By replacing these liquid components with solid electrolytes, Huawei aims to significantly enhance the lifespan, safety, and performance of batteries, particularly for ...



### [Huawei plans to invent solid-state battery tech. ...](#)

This invention will resolve the challenging battery problem: the breakdown of liquid electrolytes. Huawei will use a doped sulfide solid ...

### **Liquid flow energy storage, targeted by Huawei, has emerged as ...**

Guorun Energy Storage's all-vanadium liquid flow battery technology has helped the airport's new applications of smart energy and green energy, and has ushered in a new milestone in the ...



### [Huawei's new 3,000 km solid-state battery patent ...](#)

Whether Huawei's design proves manufacturable or merely monetised via royalties, it sharpens industry focus on dry solid-state as ...



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### [Huawei iron liquid flow battery composition](#)



In this study, a green Eu-Ce acidic aqueous liquid flow battery with high voltage and non-toxic characteristics is reported. The Eu-Ce RFB has an ultrahigh single cell voltage of 1.96 V.



### **Huawei's Game-Changing Solid-State Battery Promises 5-Minute ...**

At the heart of this groundbreaking battery is a nitrogen-doped sulfide electrolyte. This innovative composition is key to significantly boosting the battery's energy density, reaching an

### [Huawei's huge battery breakthrough! New solid ...](#)

Smartphone giant and EV investor Huawei has challenged CATL and BYD's supremacy by inventing a pioneering new battery that ...



### **China's tech giant claims 1,800-mile range for new solid-state EV battery**

Huawei has filed a patent detailing a sulfide-based solid-state battery design with energy densities between 180 and 225 Wh/lb, roughly two to three times higher than today's ...

### [China's tech giant claims 1,800-mile range for new ...](#)



Huawei has filed a patent detailing a sulfide-based solid-state battery design with energy densities between 180 and 225 Wh/lb, roughly ...



### **Huawei plans to invent solid-state battery tech, reveals new patent**

This invention will resolve the challenging battery problem: the breakdown of liquid electrolytes. Huawei will use a doped sulfide solid material instead of any liquid or gel ...



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