

Semi solid state battery phone





Overview

Is Kuxiu's S2 a solid-state battery?

So Kuxiu's claim is likely true, the S2 is a Li Polymer battery that's also a solid-state battery, or semi-solid state to be precise. Therefore, it may very well be the world's first power bank to use a solid-state battery as the company says.

What is a semi-solid-state battery?

Why This Technology?

Semi-solid-state batteries are positioned between liquid-based lithium-ion batteries (LIBs), which use flammable liquid electrolytes, and all-solid-state batteries. They offer higher safety and energy density than liquid-based LIBs while having lower mass-production challenges compared to all-solid-state batteries.

Which companies are developing semi-solid-state batteries for EV applications?

Many Chinese companies are developing semi-solid-state batteries with oxide-based solid electrolytes for EV applications. Some next-generation battery startups in the US and other regions are entering the semi-solid-state battery sector, targeting aerospace and other high-added-value applications. 1. Semi-Solid-State Battery Technology 1-1.

Are solid state batteries the future?

Solid-state batteries are the future. They're more powerful, compact, safe, and sustainable than Lithium-ion alternatives, but true all-solid state batteries can't be mass-produced cost-effectively. That's why Kuxiu has gone semi-solid state for what it calls the "world's safest" power bank, while calling dibs on it being a world first.

Are sulfide-based solid electrolytes a semi-solid-state battery?



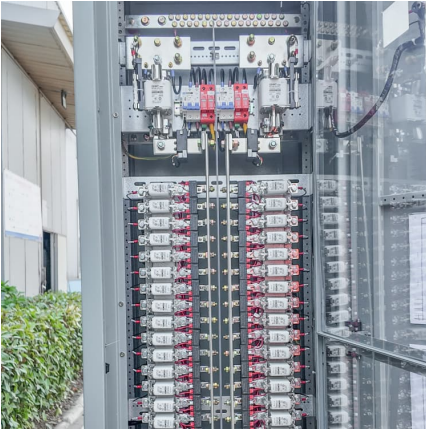
On the other hand, sulfide-based solid electrolytes, in which Japanese companies lead globally, have high ionic conductivity and soft material properties, making it largely unnecessary to develop them into semi-solid-state batteries, as they are often directly implemented as all-solid-state batteries.

Is a Li Polymer battery a solid state battery?

Turns out that the solid electrolyte inside solid-state batteries can be made from various materials like ceramics and yes, polymers. So Kuxiu's claim is likely true, the S2 is a Li Polymer battery that's also a solid-state battery, or semi-solid state to be precise.



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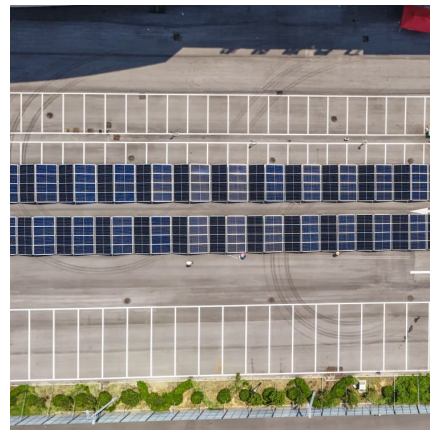


Xiaomi's desperately trying to release phones with solid-state battery

Xiaomi appears to be getting closer to releasing smartphones powered by solid-state batteries ahead of Samsung. Or if Xiaomi isn't any closer to beating the Korean tech ...

vivo X Fold5 debuts second-generation semi-solid-state battery ...

Vivo Product Manager Han Boxiao said that last year, the Vivo X Fold3 debuted the Blue Ocean semi-solid-state battery technology, becoming the first folding screen to ...



Vivo X Fold5 mobile phone is equipped with the second-generation semi

This phone supports 90W wired charging, provides IMX882 periscope and wireless charging, is equipped with the Qualcomm Snapdragon 8 Gen 3 processor, and is ...

Semi-Solid-State Battery Technology

Some next-generation battery startups in the US and other regions are entering the semi-solid-state battery sector, targeting aerospace and other high-added-value applications.



Kuxiu's 'world first' solid-state power bank costs more ...

The Kuxiu S2 Qi2 5000mAh MagSafe-compatible power bank is the world's first to use a semisolid state battery making it safer and longer lasting.



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Withstands 1000+ cycles. Kuxiu introduces the world's first «solid

Australia's Kuxiu has released the world's first semi-solid-state external battery for smartphones with MagSafe support for iPhone.





[Xiaomi's desperately trying to release phones with...](#)

Xiaomi appears to be getting closer to releasing smartphones powered by solid-state batteries ahead of Samsung. Or if Xiaomi isn't any closer to beating the Korean tech giant, at least it's trying to make people aware of its ...



Kuxiu's 'world first' solid-state power bank costs more but lasts ...

The Kuxiu S2 Qi2 5000mAh MagSafe-compatible power bank is the world's first to use a semisolid state battery making it safer and longer lasting.

Kuxiu Launches World's First Semi-Solid-State Power Bank For

Australian tech brand Kuxiu has unveiled the KUXIU S2, the world's first semi-solid-state external battery pack for smartphones--complete with MagSafe compatibility for iPhone users. The ...



Prototype Xiaomi 13 unit offers 6,000 mAh battery with ...

Xiaomi has presented its solid-state battery technology that it claims improves energy density by a third relative to conventional lithium-ion batteries.



[Top Smartphones with Silicon/Carbon Batteries in 2025](#)

Additionally, it is equipped with a robust 6000mAh silicon carbon battery, utilizing a third-generation silicon anode and semi-solid technology. The device is designed to operate ...



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