

New solid-state power storage battery





Overview

What is a solid state battery?

Solid-state batteries, using solid electrolytes instead of liquid ones, achieve much higher energy density (up to 500 Wh/kg) than traditional liquid lithium-ion batteries (200-300 Wh/kg). This provides more energy in the same volume and reduces battery size.

Could solid-state batteries revolutionize energy storage?

The country is now racing with its international rivals, particularly those from Japan and the Republic of Korea, to embrace the next-generation battery technologies. Solid-state batteries, widely regarded as one of the most promising solutions in the coming decade, could revolutionize energy storage.

Why are solid-state batteries better than current batteries?

Solid-state batteries also tend to use lithium more efficiently. Many designs feature a lithium metal layer that can store more energy in less space than the graphite layers used in current batteries. This means solid-state batteries can be lighter and smaller while still powering devices for just as long, or longer.

When will solid-state batteries reach a large-scale application?

Sun Huajun, CTO of BYD's battery division, predicted that solid-state batteries would achieve a large-scale application around 2030. China's edge in mass-producing all-solid-state batteries lies in its vast industry and market scales.



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