

ContainerPower Energy Solutions

Huawei new energy pack lithium battery



Overview

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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's patent application reveals that its battery uses a method of doping sulfide electrolytes with nitrogen to reduce side reactions at the lithium interface. Huawei has filed a patent detailing a sulfide-based solid-state battery design with energy densities between 180 and 225 Wh/lb, roughly.

Huawei is the latest in a growing list of automakers and tech companies that are exploring the possible benefits of fitting an EV with solid-state batteries, with the likes of BMW, Mercedes-Benz, VW, BYD and Stellantis all publicly touting the tech. Car News China reports that the tech giant has.

An energy storage system with higher energy density is needed in the 5G era. Intelligent lithium batteries that combine cloud, IoT, power electronics, and sensing technologies will become a comprehensive energy storage system, releasing site potential. Simple: IoT networking, from manual to Cloud.

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.

Compared to traditional lithium-ion cells, the new sulphide-based solid-state battery will have energy densities between 400 and 500 Wh/kg, or two to

three times higher. In an effort to improve its energy storage, Huawei has submitted a patent application for a battery with a 3,000-kilometre range.

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