

# Sodium chloride solid state battery

What is a sodium chloride solid state (cerenergy&#174;) battery?

Sodium Chloride Solid State (CERENERGY&#174;) batteries (also known historically as sodium nickel chloride batteries) will be the grid battery storage of the future.

What is a solid state battery?

In contrast to conventional lithium-ion batteries, which use liquid electrolytes, solid-state batteries use a solid electrolyte material to help ions travel between electrodes. Solid-state batteries naturally offer faster charging due to their superior ion conductivity compared to liquid electrolytes [194, 195, 196].

What is a sodium alumina solid state battery?

The technology used in them is different from sodium-ion batteries (which employ liquid electrolyte) or sodium sulfur batteries. According to Altech, it has designed the Cerenergy Sodium Alumina Solid State (SAS) 60 KWh battery pack (ABS60) for the renewable energy and grid storage market.

What is a 60 kWh sodium chloride solid-state battery energy storage system?

The prototype 60 kWh sodium chloride solid-state battery energy storage system has been integrated into a specially designed test station. The integration is aimed at enabling daily charging and discharging cycles to assess the battery's efficiency on a regular basis.

What are the challenges facing solid-state sodium batteries?

The major challenges facing solid-state sodium batteries are the exploration of highly conductive and electrochemical stable solid electrolytes, as well as the regulation of ion transport across the electrode/solid electrolyte interface [1, 6].

Can sodium solid-state batteries work better than lithium?

"Sodium solid-state batteries are usually seen as a far-off-in-the-future technology, but we hope that this paper can invigorate more push into the sodium area by demonstrating that it can indeed work well, even better than the lithium version in some cases," Deysher said. The ultimate goal?

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