

SolarTech Power Solutions

Thailand sodium-sulfur battery energy storage container



Overview

A sodium-sulfur (NaS) battery is a type of molten-salt battery that uses liquid sodium and liquid sulfur electrodes. This type of battery has a similar energy density to lithium-ion batteries, and is fabricated from inexpensive and low-toxicity materials. Due to the high operating temperature required (usually between 300 and 350 °C), as well as the highly reactive nature of sodium and sulfur, construction is more complex. Typical batteries have a solid membrane between the anode and cathode, compared with liquid-metal batteries where the anode, the cathode and the membrane are liquids. The

During the discharge phase, sodium at the core serves as the anode, meaning that it donates electrons to the external circuit. The sodium is separated by a solid electrolyte (BASE).

Pure sodium presents a hazard, because it spontaneously burns in contact with air and moisture, thus safety features are required to avoid direct contact with water and oxidizing atmospheres. Early on the

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