

Sodium ion energy storage integrated system





Overview

What is a sodium ion energy storage system?

The sodium-ion energy storage platform has been designed to overcome long-standing limitations of traditional lead-acid-based backup systems by offering up to 2-3 times longer life, significantly reducing operational costs and downtime. The storage system comes in 3.5Kw, 5Kw, and 10Kw models with in-built batteries.

What is NAXION energy?

Naxion Energy launches advanced sodium-ion energy storage systems, offering reliable, long-lasting power solutions for various sectors. Updated - December 11, 2025 at 04:48 PM. The new all-in-one energy platform is engineered to meet the growing demand for clean, reliable and maintenance-free energy.

Are sodium-based technologies a viable alternative for grid applications?

Emerging sodium-based technologies present promising alternatives for grid applications, particularly where cost considerations outweigh energy density requirements. Recent research has demonstrated specific capacities reaching 104 mAh/g with 80% retention after 100 cycles at high rates .

Do sodium-based electrolytes exhibit unique degradation mechanisms?

The table highlights how sodium-based systems exhibit unique degradation mechanisms including sodium evaporation and corrosion effects, with comparative studies indicating superior thermal stability of NaPF₆-based electrolytes compared to their lithium counterparts , .



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