SolarMax Energy Systems

Kyrgyzstan sodium sulfur energy storage power station

Overview

Can sodium sulfur battery be used in stationary energy storage?

Sodium sulfur battery is one of the most promising candidates for energy storage applications. This paper describes the basic features of sodium sulfur battery and summarizes the recent development of sodium sulfur battery and its applications in stationary energy storage.

What is a sodium sulfur battery?

Sodium sulfur battery is one of the most promising candidates for energy storage applications developed since the 1980s . The battery is composed of sodium anode, sulfur cathode and beta-Al 2 O 3 ceramics as electrolyte and separator simultaneously.

Can sodium sulfur battery be used in Japan?

On September 2002, AEP hosted the first demonstration project in USA, DOE and NYSERDA joined in a three year program to demonstrate sodium sulfur battery system as large as 1.2 MW/7.2 MWh from NGK for electric energy storage in 2004, indicating the possibility for the commercial application of sodium sulfur battery other than in Japan itself.

What is the research work on sodium sulfur battery in China?

The research work on sodium sulfur battery in China was dated back to the 1970s, but since 1980, SICCAS has become the only Chinese institution engaged in sodium sulfur battery research. Systematic research work has been carried out on beta-Al 2 O 3 ceramics and battery as well as module.

What is the research work on sodium sulfur battery?

Advanced battery constructions appeared since the 1980s. Previously, the research work on sodium sulfur battery was mainly focused on electric vehicle application, main institutions engaged in the research include Ford, GE, GE/CSPL, CGE, Yuasa, Dow, British Rail, BBC and the SICCAS.

What are the maintenance requirements for sodium sulfur battery?

Since no pumps, valves or exchangers are necessary in the batteries, only field maintenance requirements are limited to periodic inspection and cleaning. Sodium sulfur battery is environmentally benign, since the battery is completely sealed and allows no emissions during operation. More than 99 wt.% of the battery materials can be recycled.

Kyrgyzstan sodium sulfur energy storage power station

KYRGYZSTAN ENERGY STORAGE POWER STATION

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Sodium-sulfur battery

Sodium-sulfur battery Cut-away schematic diagram of a sodium-sulfur battery A sodium-sulfur (NaS) battery is a type of molten-salt battery that uses liquid sodium and liquid sulfur ...

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The applications of energy storage

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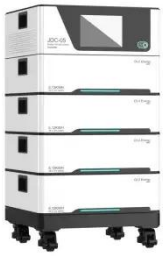

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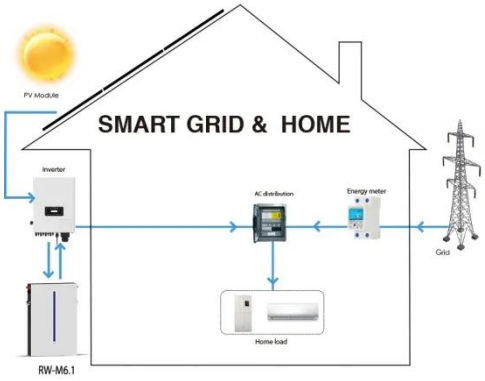

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