480 kWh catl energy storage

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CATL"s energy storage systems provide smart load management for power transmission and distribution, and modulate frequency and peak in time according to power grid loads. The CATL electrochemical energy storage system has the functions of capacity increasing and expansion, backup power supply, etc.

The TENER energy storage system achieves zero degradation in power and capacity over five years through advanced bionic SEI and self-assembling electrolyte technologies, helping to ensure long-term stability and safety by addressing lithium metal reactivity and thermal runaway risks.

On April 9, CATL unveiled TENER, the world"s first mass-producible energy storage system with zero degradation in the first five years of use in Beijing, China. Featuring all-round safety, five-year zero degradation and a robust 6.25 MWh capacity, TENER will accelerate large-scale adoption of new energy storage technologies as well as the high ...

With its exceptional all-round safety performance, five-year zero degradation and robust 6.25 MWh capacity, TENER is set to propel global energy storage technology into a new era of high ...

Utilizing CATL"s L-series cells with an energy density of 430Wh/L, Tener boasts a 6.25 MWh capacity in a 20-foot container, enhancing energy density per unit area by 30% and reducing overall station footprint by 20%.

On June 19, CATL unveiled TENER, the world's first mass-producible energy storage system with zero degradation in the first five years of use. CATL unveiled this breakthrough technology at ees Europe, the largest and most international exhibition for batteries and energy storage systems in Europe.

Utilizing CATL's L-series cells with an energy density of 430Wh/L, TENER boasts a 6.25 MWh capacity in a 20-foot container, enhancing energy density per unit area by 30% and reducing overall station footprint by 20%.

CATL also established a dedicated, end-to-end quality management system for TENER, which includes technology development, proof testing, operation monitoring, and safety failure analysis. The management system sets safety goals for different scenarios and develops technologies to meet them. CATL continuously monitors the system's operation through AI-powered risk monitoring and early warning measures to verify and continuously optimize its safety design goals.

With its exceptional all-round safety performance, five-year zero degradation and robust 6.25 MWh capacity, TENER is set to propel global energy storage technology into a new era of high efficiency and widespread adoption.

"I am thrilled to announce that Rolls-Royce and CATL have entered into a strategic cooperation to bring CATL's innovative TENER product line to the European Union and the United Kingdom," said Perry Kuiper, SVP Sales of Sustainable Power Solutions at Rolls-Royce Power Systems. "This partnership not only underscores our commitment to delivering cutting-edge, reliable, and efficient energy storage solutions but also strengthens our ability to support the energy transition with sustainable and robust infrastructure."

"The TENER product represents a leap forward in battery technology. It offers enhanced performance, efficiency, and sustainability," said Marco Roeleveld, Chief Executive Officer of Alfen. "We are excited about the potential TENER holds and how it can complement our own solutions, from smart grid solutions to energy storage systems."

Leveraging a global network of over 700 service stations, CATL harnesses the synergistic advantages of logistics partners and comprehensive ecosystem support to deliver professional, efficient, and reliable overseas services. This robust infrastructure ensures seamless supply chain management, customized solutions, and continuous technical support for each partner.

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