



# Catl energy storage 250 kWh

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**High Energy Density:** Advanced high-energy density materials and original CTP solution effectively increases the energy density of the container system to achieve a floor space energy density of over 250 kWh/m<sup>2</sup>. EnerOne, CATL's flagship modular outdoor liquid cooling battery energy storage system (BESS), features a compact structure which uses 35% less floor space compared to traditional air-cooling products, further reducing construction costs.

**Intelligent Battery Management:** CATL's unique intelligent BMS monitors the battery health status 24/7 and identifies unhealthy batteries in advance. Early warning of battery fire hazards can reduce the probability of associated fires by over 90%. The online early warning system ensures the safe operation of the battery throughout its lifecycle.

Batteries International has been serving the energy storage and battery industry for over 25 years and has a well deserved reputation as being an authoritative source on all aspects of the industry.

NINGDE, China, April 12, 2024 /PRNewswire/ -- 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-quality advancement of the sector.

Powered by cutting-edge technologies and extreme manufacturing capabilities, CATL has resolved the challenges caused by highly active lithium metals in zero-degradation batteries, which effectively helps prevent thermal runaway caused by oxidation reaction.

TENER achieves an impressive 6.25 MWh capacity in the TEU container, representing a 30% increase in energy density per unit area and a 20% reduction in the overall station footprint, thus enhancing energy density and efficiency through innovative design within a limited space.

CATL's cutting-edge cell technology supports the outstanding performance of the system. TENER is equipped with long service life and zero-degradation cells tailored for energy storage applications, achieving an energy density of 430 Wh/L, an impressive milestone for LFP batteries used in energy storage.

CATL has reduced the failure rate to the PPB level for cells used in TENER, which, when extended to the operation throughout its full lifecycle, can effectively lower operating costs and significantly enhance IRR (internal rate of return).

Energy storage is a pivotal element of the green energy transition. CATL has steadfastly dedicated itself to



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delivering world-class energy storage solutions for customers around the world. The unveiling of TENER signifies another milestone in CATL's ongoing commitment to energy transition. Looking ahead, CATL will remain resolute in its pursuit of open innovation and collaborate with global industry partners to forge a path of mutual prosperity as an industry leader in innovation and advanced technology.

Key technological innovations enabling highly reliable, safe energy storage solutions across power generation, power transmission and distribution, power consumption to empower energy freedom for all

ANAHEIM, Calif., Sept. 21, 2022 /PRNewswire/ -- Contemporary Amperex Technology Co., Limited (CATL), a global leader of new energy innovative technologies, presents its state-of-the-art all-scenario energy storage solutions at Solar Power International as part of RE+ 2022, held in Anaheim, CA from September 20-22. The conference is the largest and most comprehensive clean energy industry event in North America.

Meeting global decarbonization goals to tackle climate change means we need to transition from fossil to renewable energy sources reliably and efficiently. Energy storage solutions play a vital role in enabling the shift and innovation is key to unlocking the full potential of renewable energy by reducing energy storage system cost, increasing service life, durability, energy density, and safety.

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