

## Catl energy storage 470 kWh

China-based Contemporary Amperex Technology Co. (CATL) has launched a new 376 kW/752 kWh product expanding its TENER energy storage series in response to logistics and geospatial challenges facing energy storage products in Europe. The new solution integrates with both string and central inverters, meeting the needs of both large-scale commercial and industrial as well as distributed generation applications.

Battery industry heavyweight CATL has unveiled its latest innovation in energy storage system design developed for a wide range of applications, various topographical features, and climate conditions.

The new product called TENER Flex was unveiled at Solar & Storage Live in Birmingham on Tuesday. The new solution is part of the TENER series of products first unveiled earlier this year, with the flagship system featuring 6.25 MW capacity in a 20-foot equivalent unit (TEU) container. At the time, CATL described TENER as the world's first mass-producible energy storage system with zero degradation in the first five years of use.

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China's CATL - the world's largest EV battery producer - has launched TENER, which is described as the "world's first mass-producible energy storage system with zero degradation in the first five years of use."

As anyone who uses a smartphone or drives an electric vehicle will know, the lithium-based batteries at the heart of such technologies won't always operate like new, they will lose some energy capacity over time - meaning more time plugged in.

Though improvements in energy density and charging technologies should help eke more time away from the charger, zero degradation is the ultimate goal. And that's what China's CATL - the world's largest EV battery maker, ahead of LG, BYD, Samsung and Panasonic - is promising its TENER (or Tianheng, depending where you are in the world) development can achieve, for the first five years of use anyway.

The company says that the new setup employs a "biomimetic" solid electrolyte interphase layer at the electrode and "self-assembled electrolyte technologies" to enable the movement of lithium ions without



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suffering degradation in power or capacity, while effectively preventing thermal runaway. A TENER unit is reported to have a charge/discharge cycle life exceeding 15,000, and is expected to have a 20-year operational lifespan.

A platform to test the safety of its energy storage systems across different power grid setups has been developed, and will continuously monitor projects post-installation with the help of AI. CATL also states that it's managed to significantly reduce failure rates in cells deployed in the TENER system, and is wooing potential customers with the promise of extended operation, lower operational costs and improved returns on investment.

CATL is no stranger to energy storage, having been involved with the Zhangbei wind/solar energy storage facility from 2011, moving indoors in 2020 for Phase I of the Jinjiang station and even landing in Texas for a huge liquid-cooled battery storage project. Pricing has not been revealed for the TENER technology, but the company clearly has its eyes on the world energy storage market.

Chinese battery giant Contemporary Amperex Technology Co Ltd (CATL, SHE: 300750) has launched its new energy storage system Tianheng, or Tener, to further tap the energy storage market.

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