



Energy Storage Station of the Luneng Haixi Complementary Multi-energy Demonstration Project (50MW/100MWh)

## Energy Storage Solutions

Since energy storage is a key part of energy transition and power transformation, CATL has always been committed to providing first-class energy storage solutions to the world. CATL has developed a safe, efficient, and economical electrochemical energy storage system that is widely adaptive to the fields of power generation, power transmission and distribution, and power consumption, helping to optimize the energy structure, enhance the safety of the power system, and reduce the cost of energy use.

## ◆ CATL Cell Solutions



### Basic Parameters

Capacity [Ah]	280
Charge/discharge rate [P]	0.5
Cycle life [25°C, @80%SOH, 70%SOH]	6,000 8,000
Dimensions [L*W*H] [mm]	173.9*71.7*207.2

### I Testing and certification



IEC 6219



UL 1973



UL 9540A



UN38.3



### Basic Parameters

Capacity [Ah]	306
Charge/discharge rate [P]	0.5
Cycle life [25°C, @80%SOH, 70%SOH]	8,000 10,000
Dimensions [L*W*H] [mm]	173.9*71.7*207.2

### I Testing and certification



IEC 6219



UL 1973



UL 9540A



UN38.3

### Basic Parameters

Capacity [Ah]	285
Charge/discharge rate [P]	1
Cycle life [25°C, @80%SOH, 70%SOH]	7,000 9,000
Dimensions [L*W*H] [mm]	173.9*71.7*207.2

### I Testing and certification



IEC 6219



IEC 62133



UL1642



UN 38.3

## ● Liquid Cooling Solution



### EnerC Plus

Containerized Liquid Cooling Battery System



#### High level of safety

- LFP batteries with high thermal stability
- Design of multi-level short circuit protection, C-box breaking capacity reaches 250kA
- Support Explosion-Proof Fan with ATEX certification, Optional Dry Pipe
- Fire protection system satisfies with multiple security certifications, such as NFPA855
- Protection level of IP55 to meet the requirements of outdoor applications



#### Long service life

- Available for integration with CATL's advanced technologies (e.g. optional cell with super-long cycling up to 12,000 cycles)
- Integrated modular high-efficiency redundant liquid-cooling system, with the temperature difference in the container limited to 5°C
- Resistance up to C5 corrosion level, with 20-year reliability



#### High integration

- Single container projected area energy density reaches 252kWh/m<sup>2</sup> (for 280Ah) and 275kWh/m<sup>2</sup> (for 306Ah)
- Non-walk-in/modular design supports back-to-back installation, saving the floor space by 20% (compared with EnerC)
- Modular design for the 1,500V system  
Separate arrangement of electrical room and battery room for convenient maintenance

### Basic Parameters

Configuration	10P416S	
Cell capacity [Ah]	280	306
Rated voltage [V]	1331.2	
Rated energy [MWh]	3.72	4.07
IP Rating		IP55
Product weight [T]	35	36
Dimensions [L*W*H] [mm]	6058*2438*2896	

## | Testing and certification



IEC 62619



UL 1973



UL 9540A



IEC 62477-1



UN38.3





## EnerOne Plus

Outdoor Liquid Cooling Battery System



### High level of safety

- LFP batteries with high thermal stability, module /rack level UL9540A.
- Protection level of IP56 to meet the requirements of outdoor applications
- Resistance up to C5 corrosion level, with 20-year reliability
- Alternative fire suppression system for different markets.
- Deflagration venting and dry pipe are optional. NFPA68 compliant.



### Long service life

- Available for integration with CATL's advanced technologies (e.g. optional cell with super-long cycling up to 12,000 cycles)
- Integrated frequency conversion liquid-cooling system, with cell temperature difference limited to 3°C, and a 33% increase of life expectancy



### High integration

- Modular design, compatible with 600 - 1,500V system
- Separate water cooling system for worry-free cooling
- Modular design with a high energy density, saving the floor space by 50%
- Transportation after assembly, reducing on-site installation costs and commissioning time
- Alternative foot margin installation
- Alternative cable outlet position

## Basic Parameters

Configuration	1P260S
Cell capacity [Ah]	306
Rated voltage [V]	832
Rated energy [kWh]	254,6
IP Rating	IP66
Product weight [kg]	2381
Dimensions [L*W*H] [mm]	1344.1*1390*2343.5

## I Testing and certification



IEC 62619



UL 1973



UL 9540A



IEC 62477-1