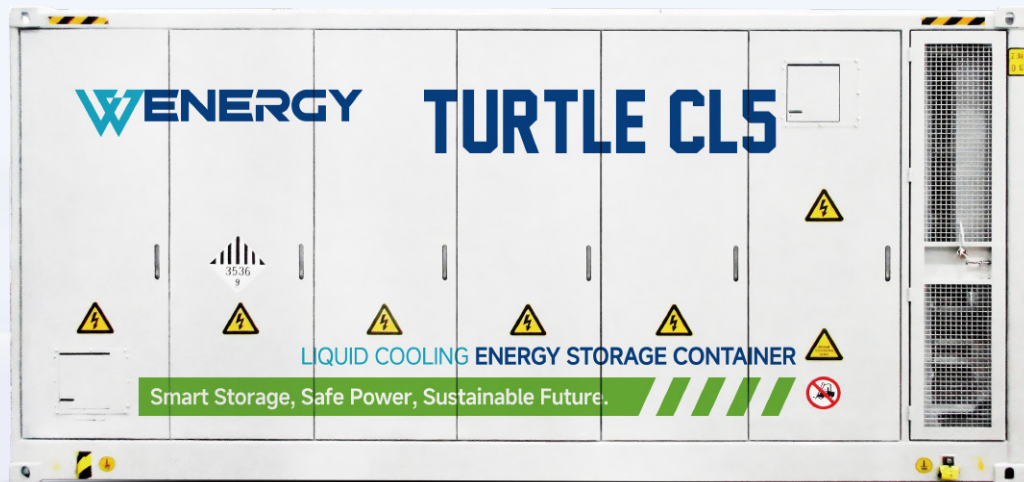


Turtle Series

5MWh Liquid-Cooled Battery Container



Compact. Safe. Utility-Ready.



◆ Applications

Solar & wind power plants

Grid-side peak shaving & frequency regulation

Thermal power auxiliary services

Standalone utility-scale energy storage

◆ Key Highlights

High Capacity & Modular

- 5 MWh in a single 20-ft container.
- Ready for rapid large-scale deployment.

Safe & Reliable

- Inherently safe LFP chemistry.
- Multi-layer thermal and fault protection.
- Module and container-level fire safety.
- Seismic-resistant design.

Grid-Ready & Integrated

- 1500 V DC, compatible with PCS and EMS.
- Supports IEC61850, IEC104, and standard protocols.

Stable Performance

- Liquid cooling for precise temperature control.
- SOC balancing extends battery life.

Smart & Low-Maintenance

- Automatic electrolyte replenishment.
- Factory-assembled, plug-and-play.
- Reduces installation time and project risk.



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5MWh Liquid-Cooled Battery Container



◆ Product Parameters

*By reducing the battery cluster, the following energy configurations are available:

4.598 / 4.18 / 3.762 / 3.344 / 2.926 / 2.508 / 2.09 MWh

Model	Turtle CL5.016
Product Type	Lithium Iron Phosphate(LFP)Battery System
Item	Specification
Configuration	12*(1P104S*4)
Rated Capacity	5.016MWh
Rated Voltage	1331.2V DC
Rated Charging Power	2.5MW
Rated Discharging Power	2.5MW
Auxiliary Power	400VAC±5%50Hz/220VAC(Critical loads)
Environmental Conditions	
Storage Temperature	-30<T≤50°C
Operating Temperature	-30<T≤50°C(Derating above 45°C)
Altitude	≤2000m
Basic Parameters	
Dimensions(L*W*H)	6058*2438*2896mm
Weight	≤43t
IP Rating	IP55 (Excluding liquid cooling chamber,air conditioner external circulation chamber, electrical room door,and fire protection cable tray)
Cooling Method	Liquid Cooling
Communication Protocol	CAN/IEC61850/IEC104/TCP/Modbus RTU
System Certification	IEC 62619:2022, IEC 62477-1:2012, EN IEC 61000-6-2:2019, EN IEC 61000-6-4:2019, EN 55011:2016/A2:2021, IEC 63056:2020, UN38.3

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