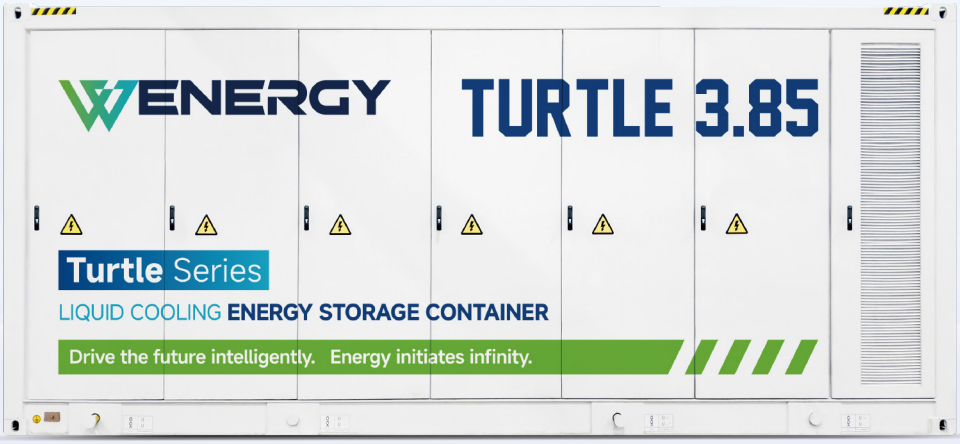
Turtle 3.85MWh Containerized ESS

Flexible · Cost-Effective · Reliable
Tailored for the U.S. Market



*U.S. Certifications

- UL 1973 (Battery Safety)
- UL 9540 (System Safety)
- UL 9540A (Fire Propagation Test)
- NFPA 69 (Explosion Prevention)
- FCC Part 15B (Electromagnetic Compatibility Certification)

Applicable Scenarios

Commercial & Industrial Applications
Delivers stable energy storage to manage peak demand fluctuations.

Grid Stabilization
Balances power loads and supports emergency grid reserves.

Renewable Energy Integration
Provides flexible storage for solar, wind, and other renewables to ensure a consistent power supply.

Microgrids & Remote Locations
Supports mining sites, island communities, and off-grid healthcare or emergency facilities with autonomous power solutions.

Key Advantages

1 Flexible Duration Configuration

- **Customizable discharge durations (2h/4h/extended),** enabled by multiple PCS power configuration options.
- **Intelligent liquid cooling** maintains ±2°C cell temperature uniformity with >89% round-trip efficiency

2 Flexible Capacity Scaling

- **Configurable from 2.7MWh to 3.85MWh**(7P-10P cluster adjustment)
- **UL certification is available for all capacity options.**

3 High-Density Design

- **3.85MWh in 14.8m²** (6m×2.4m standard container)
- **21% less land needed** vs. similar-capacity systems

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Turtle 3.85MWh Containerized ESS

Technical Specifications - Main Specifications

Category	Parameter	Specifications
System Overview		
Model	Turtle 3.85	
Battery Type	LFP 314Ah	
Rated Energy	3.85 MWh	
Rated Power	2MW 0.5C	960kW 0.25C
Container Dimensions	6,058mm × 2,438mm × 2,896mm	
Weight	≤36,000 kg	Varies by configuration (see below)
Electrical Parameters		
DC Nominal Voltage	1,228.8V	
DC Voltage Range	960V ~ 1,401.6V	
Rated Current (DC Side)	1,570A	Max continuous: 1,600A
Maximum Cycle Efficiency	>89%	
Auxiliary Power Supply	Self-powered / Externally powered (480V/3~N input)	
Environmental Specifications		
Operating Temperature Range	-15°C ~ 50°C	
Operating Humidity Range	0~95% (non-condensing)	
Maximum Operating Altitude	4,000m (derating above 2,000m)	
Protection Level	IP54	
Thermal Management		
Cooling Method	Intelligent liquid cooling (±2°C uniformity)	
Noise Level	<75 dB @ 1m	
Safety Systems		
Fire Extinguishing Configuration	Aerosol firefighting and five-in-one detection	
Communication		
Interfaces	Wired: LAN, CAN, RS485	
Protocol	Modbus TCP	
Certifications		
System Certification	IEC 60529, IEC 60730, IEC 62619, IEC 62933, IEC 62477, IEC 63056, IEC/EN 61000, UL 1973, UL 9540A, UL 9540, CE Marking, UN 38.3, TÜV Certification, DNV Certification, NFPA69, FCC Part 15B.	

Technical Specifications - Configuration Options

Configuration	((1P48S)8S)10P	((1P48S)8S)9P	((1P48S)7S)10P	((1P48S)8S)8P	((1P48S)8S)7P
Nominal Voltage (V)	1228.8	1228.8	1075.2	1228.8	1228.8
Rated Energy (kWh)	3858	3472	3376	3086	2700
Standard Charge/Discharge Current (A)	1570	1570	1413	1256	1099
Max Continuous Current (A)	1600	1600	1440	1280	1120
Weight (ton)	≤36	≤33.4	≤32.8	≤30.7	≤28.1
Voltage Range(V)	960~1401.6	960~1401.6	840~1226.4	960~1401.6	960~1401.6