

5MWh Containerized (20ft) Energy Storage System



StarCharge Energy Solutions



Co-located with renewable energy generators

Increasing renewable energy utilization, reducing wind and solar curtailment.



Standalone utilization

Participating in ancillary services (frequency regulation, voltage stabilization, black start ...etc), reducing grid investment, and peak-valley arbitrage.

Product Features:



High Efficiency

Utilizes high-capacity 314Ah battery cells, increasing system energy density by 30% and reducing land occupancy by 25%.



Intelligent Design

Variable-frequency liquid cooling system with modular adjustable pipelines ensures uniform temperature, reducing auxiliary power consumption and extending system lifespan.



Unmatched Safety

- Full lifecycle battery cells monitoring
- Three-level fire suppression system (cell, pack, container).
- Multi-level electrical protection strategies and automatic fault isolation.



Global Certifications

Complies with ROHS, REACH, and meets EU and US standards for global market access.

Specifications

Specifications are subject to change without notice

Rated Capacity	5015.96kWh
Battery Pack Configuration	1P104S
Battery Cluster Configuration	1P416S
NO. of Battery Cluster	12
Operating Voltage	1040.0Vdc ~ 1497.6Vdc
Nominal Voltage	1331.2Vdc
Max Charge/Discharge Rate	0.5P
Operating Temperature	-30°C ~ 55°C
Humidity	0 ~ 95% RH
Ingress Protection	IP55
Corrosion Protection Level	≥ C4
Fire Suppression System	Aerosol, Water sprinkler fire suppression
Ventilation and Explosion-proof	Explosion vents, Explosion prevention fans
Fire Detection	Temperature, Smoke, Combustible gas detection
Altitude	≤ 3000m
Weight	≈ 43t
Communication	CAN/RS485/Ethernet
Round Trip Efficiency	≥ 94%
Dimension(W×D×H)	6058mm × 2438mm × 2896mm
Certifications	IEC62477-2012, IEC60730-1:2022; NFPA68, NFPA69, NFPA855, HMA based on NFPA855; IEC62619-2022, IEC63056-2020, IEC61000-6-2, IEC61000-6-4, UN38.3 (UN3480), UN38.3 (UN3536); UL1973-2022, UL9540A-2019, UL9540-2023, UL60730-1:2016;

● Join the Energy Revolution with StarCharge energy solution
— Empowering the Future of net zero!



STAR CHARGE

✉ BESSinfo@wbstar.com

🌐 www.starcharge.com

📍 No. 39 Longhui Road, Wujin High-Tech Zone, Changzhou, Jiangsu Province, China