



OVERSEAS UNIQUE TRADING L.L.C

Since 2019

ENERGY STORAGE SYSTEMS

Integrated Commercial, Industrial &
Utility-Scale Storage Solutions

Battery cabinets, all-in-one systems and containerized BESS for peak shaving, backup power, renewable integration and grid applications.



Corporate Culture

The factory is ISO9001 quality management system certified and is equipped with a complete semi-automated PACK line.



Creating value for customers delivering happiness to society





Product Test Report

Certifications



40+ Standard Certificates
Grid Connection Certification in **30+** Countries

NRS	CI0/112	VDE 4105	IEC 61727	G99	CEI 0-16	IEC 62116
HECO	CE	UE2016/631	E5000	OVE	IEC/EN 62109	IEC/EN 61000
VDE 4110	CSA 22.2	UL 174	PEA/MEA	R25	EN50549	UNE 217002

Your Reliable Energy Solution Partner

We are excited to offer our services to you and look forward to a successful partnership.

Container Energy Storage System

BESS Energy Storage System

Customized Container Energy Storage System

Residential Energy Storage System

Cabinet

Why choose us

Our energy storage systems are built for safety, reliability, and scalability - from 100kWh to multi-megawatt setups, certified to global standards and ideal for C&I and utility use.

Our solutions support peak shaving, backup power, renewable energy optimization, and grid balancing — with no compromise on performance.

We offer fast delivery, 24/7 technical support, and full project services from design to commissioning.

More than just products — we deliver future-ready energy solutions that make your operations cleaner, smarter, and more stable.

Application Senarios

1. User Side ESS



2. Power Transmission Side ESS



3. Power Generating Side ESS



Facility and Equipment Parts

Container Production Line

Our production line is specifically designed for the assembly and integration of containerized energy storage systems. It features a streamlined workflow that includes battery module installation, PCS and EMS integration, wiring, thermal management setup, and comprehensive system testing.



Module

Our battery modules are engineered for high energy density, safety, and efficient thermal management. They are available in both liquid-cooled and air-cooled configurations, tailored to different application scenarios.



Circuit Breaker

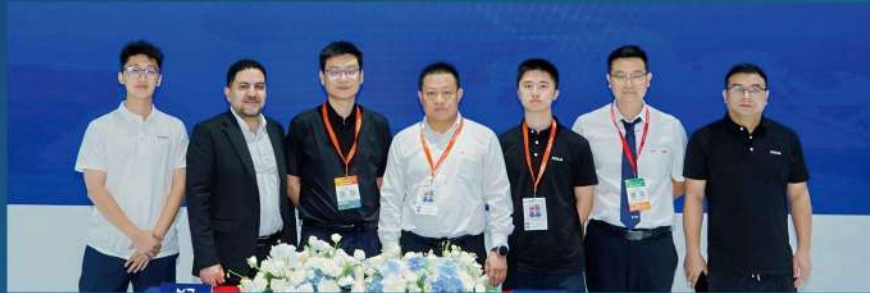
The energy storage circuit breaker is an electrical protection device used in energy storage systems. It quickly disconnects the current in the event of a fault or abnormality, protecting the system from damage and ensuring the safe operation of the energy storage system.



Energy Storage Industry Development Trend

Increasing Policy Support

The goals of carbon neutrality and peak carbon emissions are driving countries around the world to promote renewable energy.



Significant Enhancement in Economic Viability

In some countries, policies such as widening peak-valley price difference, peak electricity, and real-time pricing have significantly enhanced the economic viability of energy storage installations.



Enormous Demand

ESS can provide sustainable power not only in regions with stable electricity, but also in remote or impoverished areas without existing power infrastructure by pairing with renewable energy generation.



Value of Commercial & Industrial Energy Storage



Product Overview



Multiple Application Scenarios

- Peak shaving and frequency regulation
- Renewable energy integration
- Load leveling
- Backup power
- Power trading
- Off-grid application
- Demand response
- Dynamic capacity expansion



Efficient and Stable

- In-house developed EMS for integrated operation
- Use of top-brand battery cells
- BMS balancing control technology



Safe and Reliable

- Efficient cooling system
- Multi-layer battery monitoring and protection
- Comprehensive fire protection system



Remote Management

- Real-time data upload
- Visualized cloud platform
- Remote monitoring and maintenance



Modular Design

- Flexible capacity configuration
- High equipment compatibility
- Easy installation, transportation, and maintenance

Hybrid Battery Cabinet

Product Specifications

- 30kW-60kWh
- 50kW-100kWh

CE UN38.3

IEC IEC 62619

IEC IEC 63056



> Hybrid Cabinet Series

This system features AFCI standard integration for effective fire prevention, supports core health warnings, CO and fire detection, and provides cabinet-level fire protection. Factory pre-installed AC/DC Type II surge protection devices eliminate the need for on-site installation and debugging. It allows direct access to diesel generators without additional equipment. With AC coupling supported and high-efficiency DC coupling between PV and battery, the system ensures optimal performance.

Application Scenarios

- Data Center
- Commercial Building
- Technical Park
- Substation Expansion
- PV, Storage & Charging

Outdoor All-in-one Battery Cabinet

Product Specifications

- 100kW-215kWh (Air Cooling)
- 100kW-215kWh (Liquid Cooling)
- 125kW-261kWh

CE UN38.3

IEC IEC 62619

IEC IEC 63056



> All-in-one Cabinet Series

"Outdoor All-in-one Battery Cabinet" energy storage system can be used to provide efficient energy management services for commercial and industrial users and utility scale users. They can reduce electricity cost in the whole life cycle through peak-load shifting, demand side response and demand management. They can also be extended to new power systems such as PV, storage and charging systems and virtual power plants.

Application Scenarios

- Data Center
- Commercial Building
- Technical Park
- Substation Expansion
- PV, Storage & Charging

All-in-one Containerized BESS

Product Specifications

- 500kW-1.075MWh
- 1MW-1.1MWh
- 1MW-1.72MWh
- 1MW-2MWh
- 1.5MW-3MWh

CE UN38.3

IEC IEC 62619

IEC IEC 63056



> All-in-one Container Series

All-in-one containerized system integrating PCS and batteries, pre-matched by the manufacturer for optimal performance. Ready for quick and easy on-site installation with 400V low-voltage output, ideal for grid frequency regulation, peak shaving, energy arbitrage, and backup power across European power networks.

Application Scenarios

- | | | |
|----------------------|---------------------|----------------|
| Data Center | Commercial Building | Technical Park |
| Substation Expansion | Generation Side | Grid Side |

Liquid Cooling Containerized BESS

Product Specifications

- 3.44MWh
- 4.07MWh
- 4.88MWh
- 5.015MWh

CE UN38.3

IEC IEC 62619

IEC IEC 63056



> DC Container Series

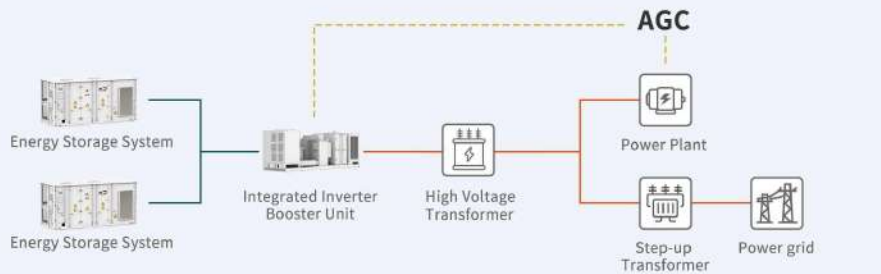
20-foot battery-only container designed for large-scale power plants, offering high energy density, strong compatibility, easy transport, and flexible configuration for various applications with excellent overall efficiency and safety.

Application Scenarios

- | | | |
|----------------------|---------------------|----------------|
| Data Center | Commercial Building | Technical Park |
| Substation Expansion | Generation Side | Grid Side |

Utility-Scale ESS Solution

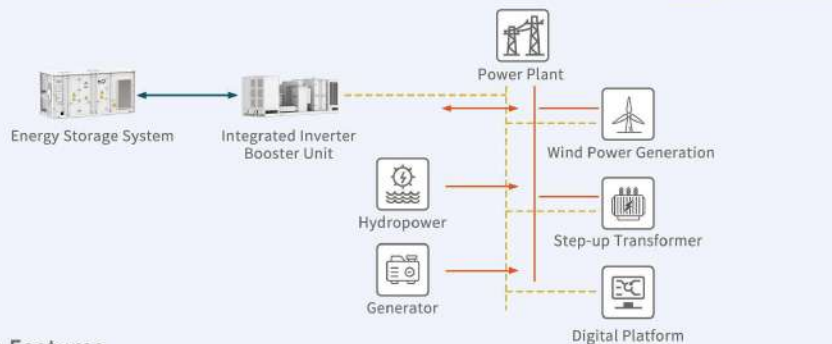
> Power Generation Side: Thermal Power Plant Frequency Regulation Solution



Solution Features

Assist in enhancing the frequency regulation capability of power plants and provide grid frequency stability support.	Increase plant revenue (e.g., black start capability, frequency regulation performance rewards).	High-rate charging and discharging of energy storage batteries (short duration, frequent support characteristics).
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> Power Generation Side: Multi-Energy Complementary Solution

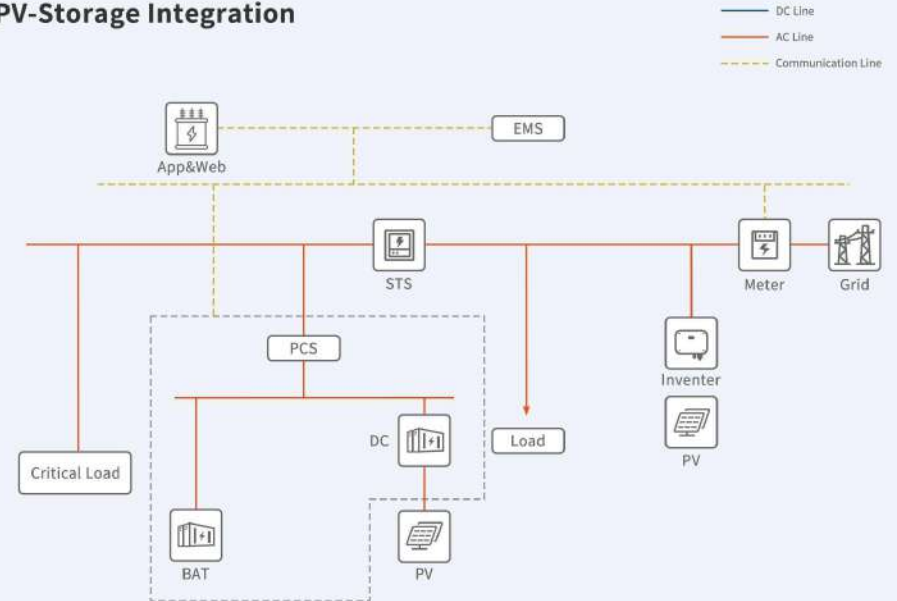


Solution Features

Multi-energy complementarity, providing balanced power supply support.	Enhance the stability and economic efficiency of grid power generation.	Improve the grid's dispatchability and predictability
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C&I ESS Solution

> PV-Storage Integration



> Solution Features

Multi-energy coordination, optimized energy utilization efficiency, improved renewable energy consumption, and ensured energy supply stability.

> System Applications

PV-storage integration, self-consumption, emergency backup power, capacity fee reduction, and peak-valley arbitrage.

> PV DC Copuling

Solution Features

DC&DC Link (multiple units)

Applicable Scenarios

Self use, microgrid operation, peak shaving and valley filling, backup power, peak valley arbitrage, etc

Remark

Suitable for scenarios where there is a need for on/off grid switch and the number of units is between 2-4, but it relies on manual switching and cannot achieve automatic on/off grid switching

Digital System Visualization Platform

Aggregation-level low-carbon management platform, covering five major sections:



Green power,
Green production,
Environmental protection & disposal,
Intelligent logistics,
Low-carbon operations.

ESS Visualization Platform

Cloud-Edge Collaborative Control

Efficient data processing with high dynamic response and accurate battery state assessment. Cloud-based digital twin ensures optimal balancing with <3% SOC error, boosting battery discharge capacity by 5%.

Preventive Diagnostic Safety Technology

Proactive safety warnings with high fault detection rates predict potential cell issues over 14 days in advance, helping prevent severe incidents like thermal runaway.

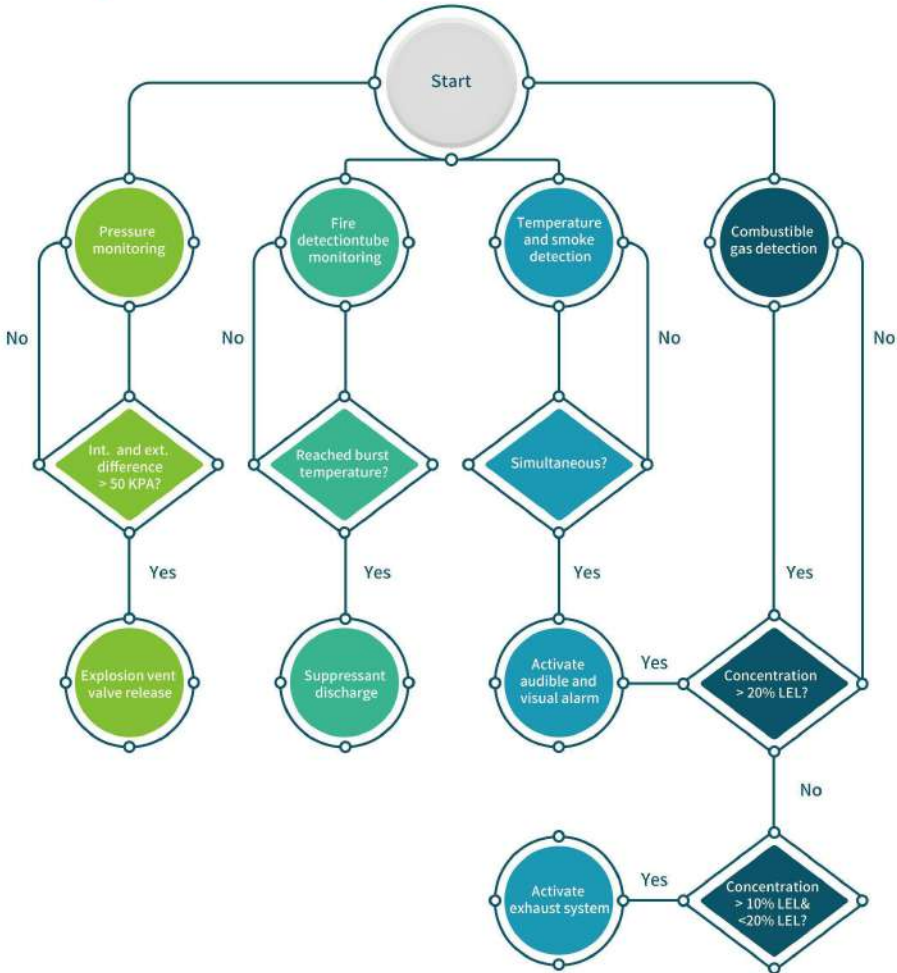
Lifecycle Management

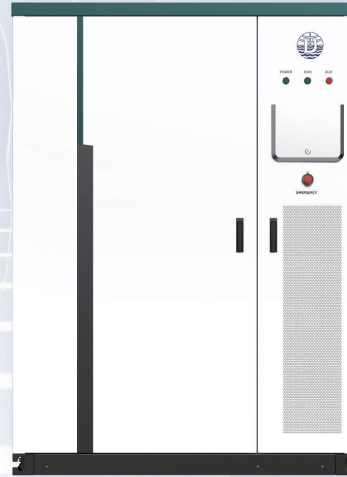
Cloud-based big data platform connects all storage sites with traceable lifecycle data and fault history. Real-time battery aging match ensures higher lifecycle reliability. 24/7 online system reduces daily O&M costs.

Fire Protection System



Multiple Monitoring & Protection





215kWh-Air Cooling Commercial & Industrial ESS

- Air Cooling, MPPT function; PV access supported
- Modular design, flexible expansion, and easy operation and maintenance
- High energy density, small volume, and convenient installation and transportation
- Adjustable output power, configurable charging and discharging power, strong adaptability
- Local HMI and cloud management, and remote upgrades supported



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Data Center



Commercial Buildings



Industrial Parks



PV, Storage & Charging
Integration



Distribution Grid Expansion



Battery Parameters

Nominal capacity	280Ah
Nominal energy	215kWh
Usable energy	≥200kWh
Rated output power	100kW
IP rating	IP54
Operating temperature	-20°C~55°C
Cooling mode	Air cooling
Fire protection	Aerosol
Altitude	4000m(>2000m derate)
Cycle life	≥6000 cycles
Dimensions(W*D*H)	1600*1300*2200mm
Weight	≈2900kg
Certification	IEC62619/CE/UN38.3

Grid-connected Output Parameters

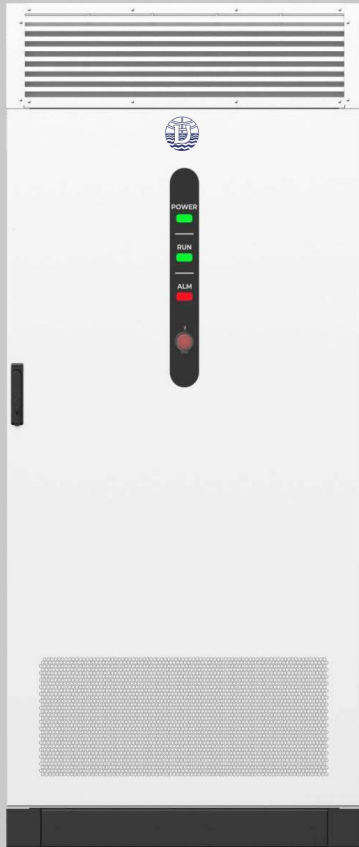
Nominal voltage	400V
Nominal output current	145A
AC access method	3L+N+PE
Grid voltage range	400V(-20%~+15%)
Grid frequency range	50Hz/60Hz±2.5Hz
Power factor	-0.99~+0.99
DC component	≤0.5%In
On/off grid switching time	20ms, with STS (optional)

Off-grid Output Parameters

AC off-grid voltage	400V
AC voltage range	400V±3%
AC off-grid frequency	50Hz/60Hz
Off-grid output THDU	≤3% (linear load)
Unbalanced load capacity	100%

DC

DC voltage range	672V~876V
Nominal power	100kW
DC maximum current	160A



Liquid Cooled Integrated Cabinet Energy Storage System

M125G261A

M125G261A is an newly developed C&I energy storage product for grid-connected application scenarios. The product highly integrates Li-FePO₄ battery, BMS, PCS, EMS, fire protection system, liquid cooling system. Innovative integrated design, small volume and large energy, provide customers with low-carbon and high-yield energy storage solutions.

High integration

- Highly integrated with energy storage unit, PCS, BMS, EMS, fire protection and temperature control systems.
- Covering an area of 1.35m² and a height of only 2.17m, leading in the industry.

High efficiency

- PCS uses the third generation semiconductor silicon carbide solution.
- Intelligent liquid cooling temperature control strategy to reduce power consumption.
- System conversion efficiency up to 90%.

High safety

- Three-level protection system, accurately monitoring short circuit, over-current, over-voltage, over-temperature and other abnormalities.
- Three-level fire protection for module, cluster level and water fire protection, and two-level explosion-proof design for module and cabinet.

Intelligent management

- Built-in EMS, with the KONJA cloud platform to achieve remote monitoring, remote setting, revenue calculation, remote upgrade, data analysis, cloud warning and other functions.
- Mobile APP function and local web function, convenient on-site operation and maintenance.

Model		M125G261A
System	Nominal capacity	314Ah
	Nominal energy	261kWh
	Nominal output power	125kW
	IP rating	IP54
	Operating temperature	-20~55°C
	Cooling mode	Liquid cooling
	Fire Protection	Aerosol
	Altitude	3000m(> 2000m derating)
	Cycle life	≥ 8000 cycles
	Dimension(W*D*H)	1000*1350*2250mm
AC (on-grid)	Weight	≈ 2500kg
	Certification	GB/T36276
	Nominal voltage	400V
	Nominal output current	180A
	Communication access method	Three-phase, Four-wire
	Allowable grid voltage range	400V(-15%~+15%)
	Grid frequency range	50Hz/60Hz
DC	Power factor	-1~+1
	Charge/discharge conversion time	<100ms
	Voltage range	728V~949V
	Rated DC power	125kW
	Battery type	Lithium iron phosphate (LiFePO ₄)
Liquid Cooling System	PACK configuration	5*1P52S
	Cooling capacity	5kW
	Rated circulating water flow	46.5@60kPa/L/min
	Refrigerant	R134a
Carrier refrigerant		Pure water, aqueous solution containing 50 per cent ethylene glycol



215kWh

Commercial & Industrial ESS

- MPPT function; PV access supported
- Modular design, flexible expansion, and easy operation and maintenance
- High energy density, small volume, and convenient installation and transportation
- 100% unbalanced load and 110% long-term overload supported
- Adjustable output power, configurable charging and discharging power, strong adaptability
- Local HMI and cloud management, and remote upgrades supported



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Data Center



Commercial Buildings



Industrial Parks



PV, Storage & Charging Integration



Distribution Grid Expansion



Battery Parameters

Nominal capacity	280Ah
Nominal energy	215kWh
Usable energy	≥200kWh
Nominal output power	100kW
IP rating	IP54
Operating temperature	-20~55°C
Cooling mode	Liquid Cooling
Fire protection	Perfluorohexane / Aerosol
Altitude	4000m(>2000m derate)
Cycle life	≥8000 cycles
Dimensions(W*D*H)	1500*1350*2230mm
Weight	≈2700kg
Certification	GB/T36276

Grid-connected Output Parameters

Nominal voltage	400V
Nominal output current	145A
AC access method	3L+N+PE
Allowable voltage range	400V(-20%~+15%)
Nominal voltage frequency	50Hz/60Hz±2.5Hz
Power factor	-0.99~+0.99
On/off grid switching time	<20ms, STS realized (optional)

Off-grid Output Parameters

AC off-grid voltage	400V
AC voltage range	400V±3%
AC off-grid frequency	50Hz/60Hz
Off-grid output THDU	≤3% (linear load)
Unbalanced load capacity	100%

DC

DC voltage range	672V~876V
Nominal DC power	160A
DC maximum current	100kW

Liquid Cooling System

Cooling capacity	5kW
Rated circulating water flow	46.5@60kPaL/min
Refrigerant	R134a
Secondary refrigerant	Pure water, aqueous solution containing 50 per cent ethylene glycol





3.44MWh

Liquid Cooling Containerized BESS

- Peak shaving and frequency regulation
- Renewable energy integration
- Backup power
- Power trading
- Off-grid application
- Demand response
- Dynamic capacity expansion



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SAFE AND RELIABLE

- Liquid cooling system
- Multi-layer battery monitoring and protection
- Comprehensive fire protection system



REMOTE MANAGEMENT

- Real-time data upload
- Visualized cloud platform
- Remote monitoring and maintenance



MODULAR DESIGN

- Flexible capacity configuration
- High equipment compatibility
- Easy installation, transportation, and maintenance



System Parameter

Rated Capacity	3.44MWh
Rated Voltage	1228.8VDC
Dimensions	6058*2438*2896mm (20HC)
Weight	≈35T

DC Side

Cell Type	3.2V/280Ah LFP
BMS Scheme	Three-level Architecture (BAU BCU BMU)
Rated Charge/Discharge Rate	0.5C
Battery Life	8000 Cycles (>70%EOL)
Depth of Discharge	90% DOD

Other Parameters

System Efficiency	≥93%
Operating Temperature	-20~+50°C
Relative Humidity	0~95%(Without Condensation)
Altitude	<4000m (>2000m Derated Operation)
Noise	<75dB
Protection Level	IP55
Corrosion Resistance Level	C3 (C4/C5 Optional)
Cooling Method	Liquid Cooling
Fire Protection System	Smoke detection, temperature detection, audible & visual alarm, exhaust system, fire suppression system
Communication Interface	RS485, Ethernet
Communication Protocol	Modbus TCP/IP, Modbus RTU, IEC61850, 104
Product Certification	IEC62619, IEC62477, IEC61000, UL1973, UL9540A, UN38.3, UN3536
Design Life	15 years
Warranty	5 years
Cycle Life	8000 times (EOL 70%)





5.015MWh

Liquid Cooling Containerized BESS

- Peak shaving and frequency regulation
- Renewable energy integration
- Backup power
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- Off-grid application
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System Parameter

Rated Capacity	5.015MWh
Rated Voltage	1331.2VDC
Dimensions	6058*2438*2896mm (20HC)
Weight	≈44T

DC Side

Cell Type	3.2V/314Ah LFP
BMS Scheme	Three-level Architecture (BAU BCU BMU)
Rated Charge/Discharge Rate	0.5C
Battery Life	8000 Cycles (>70%EOL)
Depth of Discharge	90% DOD

Other Parameters

System Efficiency	≥93%
Operating Temperature	-20~+50°C
Relative Humidity	0~95%(Without Condensation)
Altitude	<4000m (>2000m Derated Operation)
Noise	<75dB
Protection Level	IP55
Corrosion Resistance Level	C3 (C4/C5 Optional)
Cooling Method	Liquid cooling
Fire Protection System	Smoke detection, temperature detection, audible & visual alarm, exhaust system, fire suppression system
Communication Interface	RS485, Ethernet
Communication Protocol	Modbus TCP/IP, Modbus RTU, IEC61850, 104
Product Certification	IEC62619, IEC62477, IEC61000, UL1973, UL9540A, UN38.3, UN3536
Design Life	15 years
Warranty	5 years
Cycle Life	8000 times (EOL 70%)



1MW-1.72MWh **ALL-IN-ONE Container**

- Peak Shaving and Valley Filling
- Backup Power
- Renewable Integration
- Grid Balancing
- Demand Response
- Power Trading



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SAFE AND RELIABLE

- Liquid cooling system
- Multi-layer battery monitoring and protection
- Comprehensive fire protection system



REMOTE MANAGEMENT

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- Remote monitoring and maintenance



MODULAR DESIGN

- Flexible capacity configuration
- High equipment compatibility
- Easy installation, transportation, and maintenance



System Parameter

System Specification	1MW-1.72MWh
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DC Side

Cell Type	3.2V/280Ah LFP
Nominal Capacity	1720kWh
Nominal Charge/Discharge Rate	0.5C
Nominal Voltage	768V
Depth of Discharge	90% DOD

AC Side (On/Off-Grid)

Nominal Power	1000kVA
Nominal Voltage	380/400V
Nominal Frequency	50/60Hz
Power Factor	>0.99 (Nominal Power)
Adjustable Power Factor Range	(-1.1)
Current Harmonic Distortion Rate	<3%
Maximum Conversion Efficiency	98.5%
Wiring Method	3P4W+PE

Other Parameters

System Efficiency	≥85%
Operating Temperature	-20~+50°C
Relative Humidity	0~95%(Without Condensation)
Operation Altitude	<4000 m (>2000 m Derated Operation)
Protection Level	IP54
Noise	< 75dB
Cooling Method	Liquid Cooling
Fire Protection System	Smoke detection, temperature detection, audible & visual alarm, exhaust system, fire suppression system
Communication Interface	RS485, Ethernet
Dimensions	6058*2438*2896mm (20HC)
Weight	≈22.5T
Design Life	15 years
Warranty	5 years
Cycle Life	8000 times (EOL 70%)
Standard	IEC62619, IEC62477, IEC61000, UN38.3, UN3536





1MW-2MWh **ALL-IN-ONE Container**

- Peak Shaving and Valley Filling
- Backup Power
- Renewable Integration
- Grid Balancing
- Demand Response
- Power Trading



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SAFE AND RELIABLE

- Liquid cooling system
- Multi-layer battery monitoring and protection
- Comprehensive fire protection system



REMOTE MANAGEMENT

- Real-time data upload
- Visualized cloud platform
- Remote monitoring and maintenance



MODULAR DESIGN

- Flexible capacity configuration
- High equipment compatibility
- Easy installation, transportation, and maintenance



System Parameter

System Specification	1MW-2MWh
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DC Side

Cell Type	3.2V/314Ah LFP
Nominal Capacity	2089kWh
Nominal Charge/Discharge Rate	0.5C
Nominal Voltage	832V
Depth of Discharge	90% DOD

AC Side (On/Off-Grid)

Nominal Power	1080kVA
Nominal Voltage	380/400V
Nominal Frequency	50/60Hz
Power Factor	>0.99 (Nominal Power)
Adjustable Power Factor Range	(-1.1)
Current Harmonic Distortion Rate	<3%
Maximum Conversion Efficiency	98.5%
Wiring Method	3P4W+PE

Other Parameters

System Efficiency	≥85%
Operating Temperature	-20~+50°C
Relative Humidity	0~95%(Without Condensation)
Operation Altitude	<4000 m (>2000 m Derated Operation)
Protection Level	IP54
Noise	< 75dB
Cooling Method	Liquid Cooling
Fire Protection System	Smoke detection, temperature detection, audible & visual alarm, exhaust system, fire suppression system
Communication Interface	RS485, Ethernet
Dimensions	6058*2438*2896mm (20HC)
Weight	≈25T
Design Life	15 years
Warranty	5 years
Cycle Life	8000 times (EOL 70%)
Standard	IEC62619, IEC62477, IEC61000, UN38.3, UN3536





1.5MW-3MWh

ALL-IN-ONE Container

- Peak Shaving and Valley Filling
- Backup Power
- Renewable Integration
- Grid Balancing
- Demand Response
- Power Trading



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SAFE AND RELIABLE

- Liquid cooling system
- Multi-layer battery monitoring and protection
- Comprehensive fire protection system



REMOTE MANAGEMENT

- Real-time data upload
- Visualized cloud platform
- Remote monitoring and maintenance



MODULAR DESIGN

- Flexible capacity configuration
- High equipment compatibility
- Easy installation, transportation, and maintenance



System Parameter

System Specification	1.5MW-3MWh
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DC Side

Cell Type	3.2V/314Ah LFP
Nominal Capacity	3134kWh
Nominal Charge/Discharge Rate	0.5C
Nominal Voltage	832V
Depth of Discharge	90% DOD

AC Side (On/Off-Grid)

Nominal Power	1500kVA
Nominal Voltage	380/400V
Nominal Frequency	50/60Hz
Power Factor	>0.99 (Nominal Power)
Adjustable Power Factor Range	(-1,1)
Current Harmonic Distortion Rate	<3%
Maximum Conversion Efficiency	98.5%
Wiring Method	3P4W+PE

Other Parameters

System Efficiency	≥85%
Operating Temperature	-20~+50°C
Relative Humidity	0~95%(Without Condensation)
Operation Altitude	<4000 m (>2000 m Derated Operation)
Protection Level	IP54
Noise	< 75dB
Cooling Method	Liquid Cooling
Fire Protection System	Smoke detection, temperature detection, audible & visual alarm, exhaust system, fire suppression system
Communication Interface	RS485, Ethernet
Dimensions	6058*2438*2896mm (20HC)
Weight	≈33T
Design Life	15 years
Warranty	5 years
Cycle Life	8000 times (EOL 70%)
Standard	IEC62619, IEC62477, IEC61000, UN38.3, UN3536

