



Faro Website



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FR Electric (Zhejiang) Co., Ltd.

COMPANY PROFILE



Faroe Electric Power is a high-tech enterprise integrating R&D, production, sales, and operation and maintenance services for new energy equipment. The company has mastered core energy storage system integration technologies and holds the related intellectual property rights, combining advanced high-power power electronics technology and safe and reliable battery management technology to provide users with high-quality services.

2018

Year established

\$100+million

Registered capital

40+

Factory

50+

R&D Personnel



Projects in operation

- **500+**
- Many years of experience in the green energy power market
- Over 500 project cases in operation



R&D

- 2*8000KVA
- A R&D team of over 50 people
- Mastery of core energy storage system technologies
- Fully functional lab with over 2*8000KVA power



Manufacture

- Battery Pack production capacity over 10GWh
- High-power energy storage PCS production capacity over 5GW



Solutions

- One-stop comprehensive solutions: BESS, PV, EPD
- Meets requirements across different application scenarios



Operation and maintenance

- Fast response within 24 hours
- Provides comprehensive and timely technical support

HONORS & QUALIFICATIONS



Certificates of honor



New and High-Tech
Enterprise
2024



Provincial-level Specialized and Innovative Enterprise 2024



Product patent

Invention patent

21

Utility model

14

Design patent

2

Software
copyrights

4

Data as of March 2026



This image is a collage of various Chinese patents and certificates. It includes several software patents for 'Zhonghua Computer' (中华计算机) and 'Zhonghua Accounting' (中华会计), each with a unique patent number and a QR code. There is also a 'Patent Certificate' (发明专利证书) for an 'Invention Patent' (发明专利) related to 'Invention Patent' (发明专利). The certificates are issued by the State Intellectual Property Administration (国家知识产权局) and the State Intellectual Property Office (国家知识产权局专利局). The certificates are in Chinese and include details such as the patent number, the inventor's name, the title of the invention, and the date of issuance. The certificates are arranged in a grid-like fashion, with some overlapping. The background is a light blue and white pattern.

INTELLIGENT MANUFACTURING



Automation

Automation exceeds 85%: more than 10 processes, including battery charging, plasma cleaning, OCV sorting and module stacking, are fully automated, and refined management has greatly improved yield.



Intelligence

An industry-leading intelligent module production line features numerous built-in scheduling strategies, adaptable to complex and variable process routes, and, combined with lean production principles, greatly improves production efficiency.



Digitization

An integrated ERP+MES system digitally connects factory resources, process design, production management, equipment management, planning management, energy consumption management and logistics management, ensuring full traceability.



INDUSTRY LAYOUT

Project investment

Faroe funds the project in full and provides equipment, construction and installation, and O&M services, sharing the benefits.

EPC

Energy storage EPC

The owner funds the project; Faroe provides equipment, construction and installation, and O&M services; the owner enjoys exclusive benefits.



APPLICATION SCENARIOS

Generation-side energy storage

Intraday peak shaving, smoothing output, and reducing wind and solar curtailment

Solar power generation

Wind power generation

Thermal power generation

Pumped storage power station

Grid-side energy storage

Frequency regulation, peak shaving and valley filling, reserve capacity

Power grids

Industrial and commercial energy storage

Peak-valley arbitrage, Off-grid operation, Standby power

Factory

Industrial park

Office building

Charging station

Microgrid energy storage

Ensuring power balance in microgrid systems, high-efficiency utilization of distributed energy resources

Distributed photovoltaic

Distributed wind power

Isolated island

Remote areas

ALL-IN-ONE BESS



FRES200-L10-261



FRES200-A10-313

Technical parameters

Product Model	FRES200-L10-261	FRES200-A10-313
Cell Type	LFP 3.2V/314Ah	LFP 3.2V/314Ah
Rated Energy	261kWh	313kWh
RACK Configuration	1P260S	1P312S
Rated Power	135kW	100kW
Grid Rated Voltage	400V	
Maximum Efficiency	92%	
Charge/Discharge Rate	0.5	
Depth of Discharge	0-99%	
Cycles	>8000 & EOL70%	
Protection Grades	IP54	
Cooling	Liquid-cooling	Air-cooling
Fire Protection	Active Warning + Aerosol + PACK-Level	
Size W*D*H	1040*1300*2270mm	1040*1400*2270mm
Weight	≈2528kg	≈3300kg

Product features

Extreme safety

- Cell-level thermal control for ultra-stability
- Proactive monitoring + multi-stage explosion-proof protection

Flexible deployment

- AC/DC integrated design, Ultra-compact & LV-ready
- Single-cabinet autonomy, Multi-unit scalable power

Economical and efficient

- Per-string design, parallel zero-loss 92% system efficiency
- Long-life & high-safety cells 25% less aux. power by smart thermal control

Intelligent and friendly

- Multi-mode & multi-scene Web/APP remote O&M
- AI-driven ROI boost Wind/PV compatible & future-proof

Application scenarios



C&I Peak Shaving



Off-grid ES



Distribution Area ES



Zero-Carbon Park

ALL-IN-ONE BESS



FRES200-L10-488



FRES200-L10-586

Technical parameters

Product Model	FRES200-L10-488	FRES200-L10-586
Cell Type	LFP 3.2V/587Ah	LFP 3.2V/587Ah
Rated Energy	488kWh	586kWh
RACK Configuration	1P260S	1P312S
Rated Power	245kW	290kW
Grid Rated Voltage	400V	
Maximum Efficiency	92%	
Charge/Discharge Rate	0.5	
Depth of Discharge	0-99%	
Cycles	>8000 & EOL70%	
Protection Grades	IP54	
Cooling	Liquid-cooling	
Fire Protection	Active Warning + Aerosol + PACK-Level	
Size W*D*H	1485×1485×2329mm	1485×1485×2579mm
Weight	≈4300kg	≈4850kg

Extreme safety

- Cell-level thermal control for ultra-stability
- Proactive monitoring + multi-stage explosion-proof protection

Flexible deployment

- AC/DC integrated design, Ultra-compact & LV-ready
- Single-cabinet autonomy, Multi-unit scalable power

Economical and efficient

- Per-string design, parallel zero-loss 92% system efficiency
- Long-life & high-safety cells 25% less aux. power by smart thermal control

Intelligent and friendly

- Multi-mode & multi-scene Web/APP remote O&M
- AI-driven ROI boost Wind/PV compatible & future-proof

Application scenarios



C&I Peak Shaving



Off-grid ES

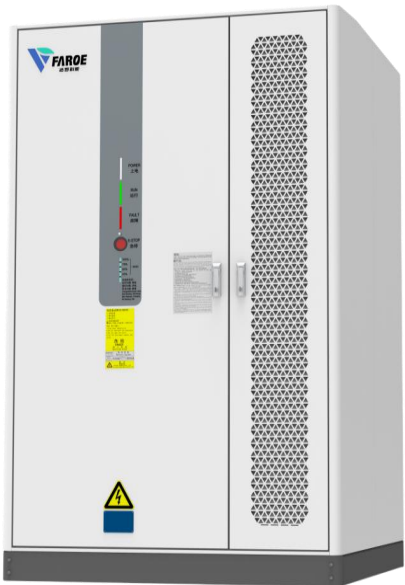


Distribution Area ES

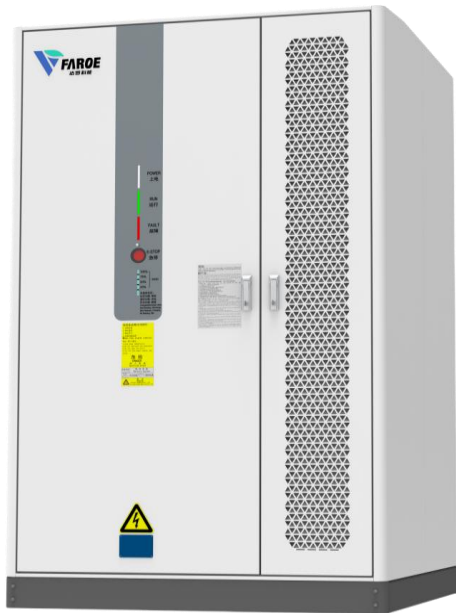


Zero-Carbon Park

HV Grid-tied ALL-IN-ONE BESS



FRES200-L20-418



FRES200-L20-781

Product features

Extreme safety

- Cell-level thermal control for ultra-stability
- Proactive monitoring + multi-stage explosion-proof protection

Flexible deployment

- AC/DC integrated design, Ultra-compact & HV-ready
- Single-cabinet autonomy, Multi-unit scalable power

Economical and efficient

- Per-string design, parallel zero-loss 92% system efficiency
- Long-life & high-safety cells 25% less aux. power by smart thermal control

Intelligent and friendly

- Multi-mode & multi-scene Web/APP remote O&M
- AI-driven ROI boost Wind/PV compatible & future-proof

Technical parameters

Product Model	FRES200-L20-418	FRES200-L20-781
Cell Type	LFP 3.2V/314Ah	LFP 3.2V/587Ah
Rated Energy	418kWh	781kWh
RACK Configuration	1P416S	1P416S
Rated Power	215kW	390kW
Grid Rated Voltage	660/690/800V	
Maximum Efficiency	92%	
Charge/Discharge Rate	0.5	
Depth of Discharge	0-99%	
Cycles	>8000 & EOL70%	
Protection Grades	IP54	
Cooling	Liquid-cooling	
Fire Protection	Active Warning + Aerosol + PACK-Level	
Size W*D*H	1400*1400*2270mm	1845×1500×2329mm
Weight	≈3704kg	≈6250kg

Application scenarios

-  Large-scale C&I
-  PV-ESS-Diesel
-  HV BESS System
-  Zero-Carbon Park

Hybrid Energy All-in-One BESS

Application scenarios

-  Weak grid areas
-  Off-grid areas
-  C&I Peak Shaving
-  Backup power support



Product features

- **High Integration & Efficient Deployment**
 - Standardized liquid-cooling BESS
 - Adaptable to new and retrofit projects
- **Smart Dispatch & Economic Energy Saving**
 - Supports peak-valley arbitrage & demand regulation; prioritizes PV consumption, reducing fuel consumption
- **Flexible Scenarios & Complete Architecture**
 - Supports PV-storage-diesel / PV-storage / diesel-storage modes
 - Seamless switching between grid-connected / off-grid / dual-mode
- **Reliable Power Supply & Seamless Switching**
 - Uninterrupted power supply when grid fails
 - Dual backup: energy storage + diesel generator

Technical parameters

Product Model	FRES200-HA10-96
DC side	
Cell Type	LFP 3.2V/314Ah
PACK Capacity	16kWh
Rated Capacity	96kWh
Rated Voltage	307.2V
MPPT side	
MPPT Voltage Range	180-960Vdc
Max. input Channels	4
MPPT Quantity	2
Max.Branch Current	20A
Rated Output Power	50kW
AC side (on-grid)	
Rated Output Power	50kW
THDi	<3% (Rated Power)
Rated Voltage	400V (300~440V)
Rated Frequency	50/60Hz (±2.5Hz)
Power Factor	-1~ 1
AC Side (off-grid)	
Rated Output Power	50kW
Wiring Method	3L+N
Rated Output Voltage	400V
Rated Output Frequency	50/60Hz
System Parameter	
Communication Interface	CAN/RS485/Ethernet
Scalability	Max. 10 in parallel
Cooling Mode	Air cooling
Installation Mode	Outdoor
Protection Grade	IP54
Ambient Temperature	-30℃ ~ +55℃(>45℃ derating)
Ambient Humidity	5%~95% (no condensation)
Cycle Life	9000 (25℃, 0.5C/0.5C, 90% DOD, EOL70%)
Dimensions (W × H × D)	1469×1200×1400mm
Weight	≈1140kg

Hybrid Energy All-in-One BESS

Application scenarios

-  Weak grid areas
-  Off-grid areas
-  C&I Peak Shaving
-  Backup power support



Product features

- 

High Integration & Efficient Deployment

 - Standardized liquid-cooling BESS
 - Plug-and-play with PV + STS optional configuration
- 

Smart Dispatch & Economic Energy Saving

 - Automatic EMS charge/discharge management;
 - prioritizing PV consumption to reduce fuel consumption
- 

Flexible Scenarios & Complete Architecture

 - Supports PV-storage-diesel / PV-storage / diesel-storage modes
 - Seamless switching between grid-connected / off-grid / dual-mode
- 

Reliable Power Supply & Seamless Switching

 - Uninterrupted power supply when grid fails
 - Dual backup: energy storage + diesel generator

Technical parameters

Product Model	FRES200-HL10-261
DC side	
Cell Type	LFP 3.2V/314Ah
PACK Capacity	52.2kWh
Rated Capacity	261kWh
Rated Voltage	832V
MPPT side	
MPPT Voltage Range	180-950Vdc
Max. input Channels	20
MPPT Quantity	10
Max.Branch Current	20A
Rated Output Power	2*120kW
AC side (on-grid)	
Rated Output Power	125kW
THDi	<3% (Rated Power)
Rated Voltage	400V (300~440V)
Rated Frequency	50/60Hz (±2.5Hz)
Power Factor	-1 ~ 1
AC Side (off-grid, Optional STS Module)	
Rated Output Power	125kW
Rated Output Power (STS)	300kW
Wiring Method	3L+N
Rated Output Voltage	400V
Rated Output Frequency	50/60Hz
System Parameter	
Communication Interface	CAN/RS485/Ethernet
Scalability	Max. 10 in parallel
Cooling Mode	Liquid cooling
Installation Mode	Outdoor
Protection Grade	IP54
Ambient Temperature	-30°C ~ +55°C(>45°C derating)
Ambient Humidity	5%~95% (no condensation)
Cycle Life	9000 (25°C, 0.5C/0.5C, 90% DOD, EOL70%)
Dimensions (W × H × D)	1930*2309*1300mm
Weight	≈2600kg

Application scenarios

-  Residential
-  Off-grid ES
-  Small Commercial



Product features

-  **High-Performance Battery**
 - 24h backup power for blackouts
 - 16kWh unit, expandable to 256kWh

-  **Cost-Effective & Smart**
 - Plug-and-play, fast setup
 - Stackable modules, flexible capacity

-  **Flexible Deployment**
 - Self-consume solar power, lower emissions
 - Charge by day, discharge at peak to save bills

-  **Intelligent Safety**
 - Multi-layer BMS protection
 - Multi-mode & multi-scenario, Web/APP remote intelligent control

Technical parameters

Product Model	FRES-HA10-16
Cell Capacity	LPF 3.2V/314Ah
Series-parallel connection	1P16S
Nominal Capacity	16kWh
Nominal Voltage	51.2V
Operating Voltage Range	40~58.4V
Operating Temperature (Charging)	0~55℃ ≤90%RH
Operating Temperature (Discharging)	-20~60℃ ≤90%RH
Standard Charging	5A (CC Charging: 62.8A, Charge Voltage: 57.6V, Cut-off Current: 5A)
Max Continuous Charging Current	5A (CC Charging: 150A, Charge Voltage: 57.6V, Cut-off Current: 5A)
Standard Discharging	40V (CC Discharging: 100A, Cut-off Voltage: 40V)
Max Continuous Discharging Current	40V (CC Discharging: 200A, Cut-off Voltage: 40V)
Storage Temperature	-20~60℃
Cycle Life	>6000 @70%SOH
Protection Grade	IP65
Monitoring & Communication	RS485/CAN
Max. Parallel Count	16
Weight	136Kg
Size (W*D*H)	450*230*870mm

Application scenarios

-  Wind-PV-Storage Integrated Base
-  Distributed Energy Storage
-  Power System Support
-  Off-grid Energy Storage



Product features

-  **Extreme safety**

 - Safety isolation between PCS and battery cabinets
 - Proactive alerts with multi-stage fire protection
-  **Flexible deployment**

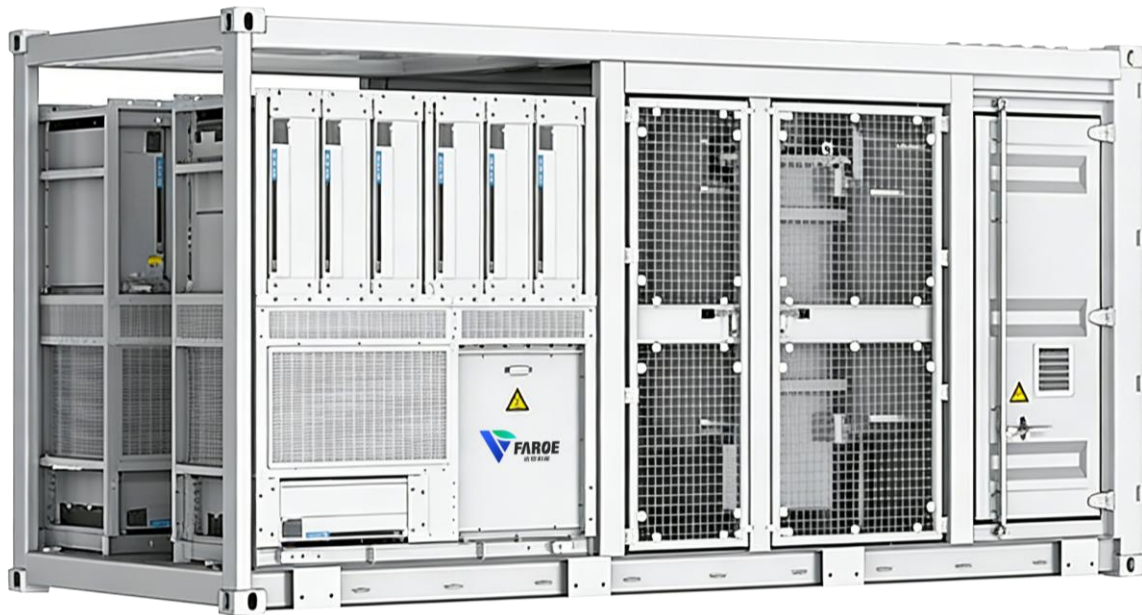
 - Multiple pre-installed interfaces enable efficient handling and installation
 - IP54 rating ensures reliable operation in diverse harsh environments
-  **Economical and efficient**

 - Electrical system optimized for 92% efficiency
 - Long-life safe batteries: 25% energy saving with smart temperature control
-  **Intelligent and friendly**

 - Multi-mode & multi-scene
 - Web/APP remote O&M
 - AI-driven ROI boost
 - Wind/PV compatible & future-proof

Technical parameters

Product Model	FRES100-L20-5016	FRES100-L20-6250
Cell Type	LFP 3.2V/314Ah	LFP 3.2V/587Ah
System Nominal Voltage	1331.2V	1331.2V
System Voltage Range	1165V~1498V	1165V~1498V
Rack Configuration	12P416S	8P416S
System Rated Energy	5016kWh	6250kWh
Maximum System Efficiency	92%	
Depth of Discharge (DOD)	0-99%DOD	
Cycle Life	>8000 & EOL70%	
Protection Level (IP Rating)	IP54	
Corrosion Resistance Rating	C4	
Cooling Method	Liquid Cooling	
Fire Suppression System	FM-200 or Novec 1230	
External Communication	IEC61850+IEC104, RS485, Ethernet	
Operating temperature	-30~50°C(>45°C With Derating)	
Operating humidity	≤95%, No condensation	
Maximum working altitude	<4000m (>2000m With Derating)	
Dimension (WxHxD)	6058*2438*2896mm	
Weight	≈45T	≈54T



Technical parameters

Product Model	FRP2500I-2A	FRP3000I-2A
DC Parameters		
Max.DC Voltage	1500V	1500V
Voltage Range	1040~1500V	1040~1500V
Max.DC Current	1322A*2	1586A*2
AC Parameters		
Rated Power	2500kW	3000kW
Max. Power	2750kVA	3300kVA
Rated Voltage	690V	690V
Voltage Range	621~759V	621~759V
Max.AC Current	2302A	2762A
Rated Frequency	50Hz/60Hz	
Power factor	-1~+1	
Current Distortion Rate	<4%	
Transformer parameter		
Voltage	0.69kV / 6kV~35kV	
Short-Circuit Impedance	6%~8%	
No-Load Current	≤0.70%	
No-Load Loss	≤2.05kW	≤2.46kW
Load Loss	≤15.445kW	≤18.53kW
Insulation Class	F(155℃)	
Power Frequency Withstand	(35/3)	
System parameter		
Maximum Efficiency	97%	
Connection Mode	Dyn11/Yd11	
Operating Altitude	4000m(>4000m Derating)	
Operating Temperature	-35℃~+65℃(>55℃ Derating)	
Operating Humidity	0~100%	
Cooling	Air cooling	
Protection Grade	IP54	
Communication	CAN/RS485/Modbus/Ethernet	
Size (W*D*H)	2400*800*2100mm	2400*800*2100mm
Weight	≈1.6T	≈2.0T

Product features

 Efficient conversion

- Three-level topology, 99% peak efficiency
- Air cooling at 45℃ without derating
- Wide DC voltage range (1500V at full load)

 Flexible application

- Four operating modes with battery
- 100+ MW in VSG/VF/PQ modes
- Islandable & black-start grid support

 Safe and reliable

- IP54-rated
- 250kA DC short-circuit rating
- Integrated BMS/EMS with multi-level protection

 Power grid support

- Primary frequency regulation + source-grid-load coordination
- Operation at SCR = 1.02
- IEC 61850 compliant, <20ms response

Strict component selection

We use only industry-leading, high-quality components and materials

Strict production control

Standardized workflows with regular equipment inspection and maintenance

Strict quality inspection

Full inspection at every stage, with each unit tested before shipment

Continuous product optimization

We actively collect customer feedback and suggestions to drive continuous improvement.

Battery life tracking

Premium cells with proprietary BMS for real-time monitoring. Intelligent maintenance strategies ensure system safety and extended lifespan.

Electrical safety design

Proprietary PCS and PACK with integrated electrical isolation, over-voltage protection, and grounding to prevent failures. Optimized electrical design achieves up to 92% system conversion efficiency.

Thermal management system design

High-performance thermal materials with aerodynamically optimized ducts and intelligent temperature control reduce self-consumption by 25%. Maintains <5°C thermal differential for system stability.

Structural stability design

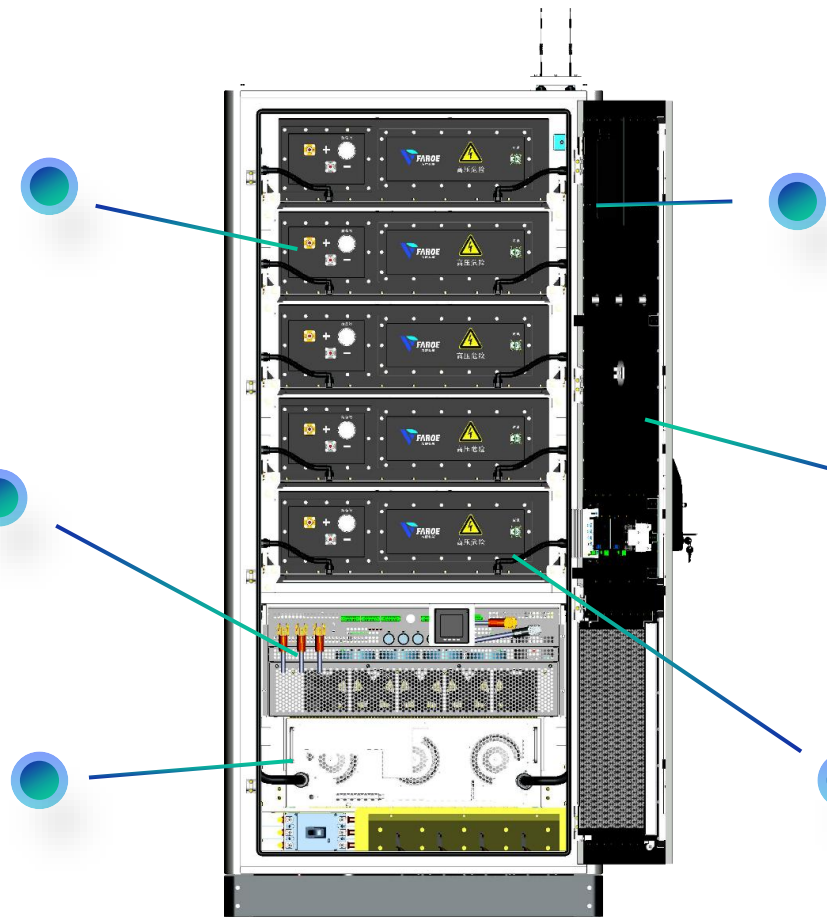
Proprietary corrosion/temperature-resistant enclosures with optimized structural design, enhanced shock absorption, and IP54 rating ensure reliable operation in harsh environments.

Operational safety design

Intuitive user interface with emergency power cut-off; Pressure-relief valves prevent explosions by releasing overpressure.

Active fire early warning

Three-tier fire protection (Cabinet/RACK/PACK) monitoring temperature, smoke, and gas. Automatically activates suppression systems upon fire detection.



System certification



ISO 9001



ISO 14001



ISO 45001



Product certification



Our in-house PACK, RACK and PCS have all passed compliance certification, with the products CE certified.

PROJECT CASE – GENERATION SIDE



▲ GANSU GANNAN
9MW/18MWh Energy Storage Station



▲ GANSU JINCHANG
40MW/80MWh Energy Storage Station

PROJECT CASE – USER SIDE



▲ NETHERLANDS
1260kW/2580kWh Energy Storage Station



▲ NETHERLANDS
6*261kWh Energy Storage Station



▲ DENMARK
5*261kWh Energy Storage Station



▲ DENMARK
5*261kWh Energy Storage Station



▲ ZHEJIANG JIAXING
4.9MW/9.614MWh Energy Storage Station



▲ JIANGSU NANTONG
9.45MW/20MWh Energy Storage Station

PROJECT CASE – USER SIDE



▲ ZHEJIANG ZHUJI
1992kW/5568kWh Energy Storage Station



▲ ZHEJIANG JIAXING
2970kW/5805kWh Energy Storage Station



▲ ZHEJIANG JIAXING
1620kW/3132kWh Energy Storage Station



▲ JIANGSU HAIAN
1200kW/2580kWh Energy Storage Station



▲ JIANGSU SUQIAN
2148kW/6444kWh Energy Storage Station



▲ JIANGSU NANTONG
3200kW/9890kWh Energy Storage Station



▲ JIANGSU NANTONG
800kW/2580kWh Energy Storage Station



▲ ZHEJIANG HANGZHOU
1400kW/3010kWh Energy Storage Station



▲ JIANGSU KUNSHAN
5000kW/10750kWh Energy Storage Station



▲ JIANGSU HAIAN
5900kW/14219kWh Energy Storage Station



▲ JIANGSU HUAIAN
800kW/2580kWh Energy Storage Station



▲ ZHEJIANG ZHUJI
800kW/1720kWh Energy Storage Station

PROJECT CASE – USER SIDE



▲ **ZHEJIANG HANGZHOU**
1100kW/2365kWh Energy Storage Station



▲ **JIANGSU HAIAN**
900kW/2795kWh Energy Storage Station



▲ **JIANGSU NANTONG**
1600kW/3440kWh Energy Storage Station



▲ **JIANGSU JINTAN**
1000kW/3010kWh Energy Storage Station



▲ **JIANGSU YANCHENG**
700kW/1505kWh Energy Storage Station



▲ **ZHEJIANG LISHUI**
900kW/1935kWh Energy Storage Station



▲ **JIANGSU SUZHOU**
600kW/1720kWh Energy Storage Station



▲ **ZHEJIANG HANGZHOU**
600kW/1290kWh Energy Storage Station



▲ **JIANGSU HAIAN**
600kW/1290kWh Energy Storage Station



▲ **ZHEJIANG JINHUA**
800kW/1720kWh Energy Storage Station



▲ **JIANGSU NANTONG**
700kW/1505kWh Energy Storage Station



▲ **ZHEJIANG HUZHOU**
500kW/1075kWh Energy Storage Station