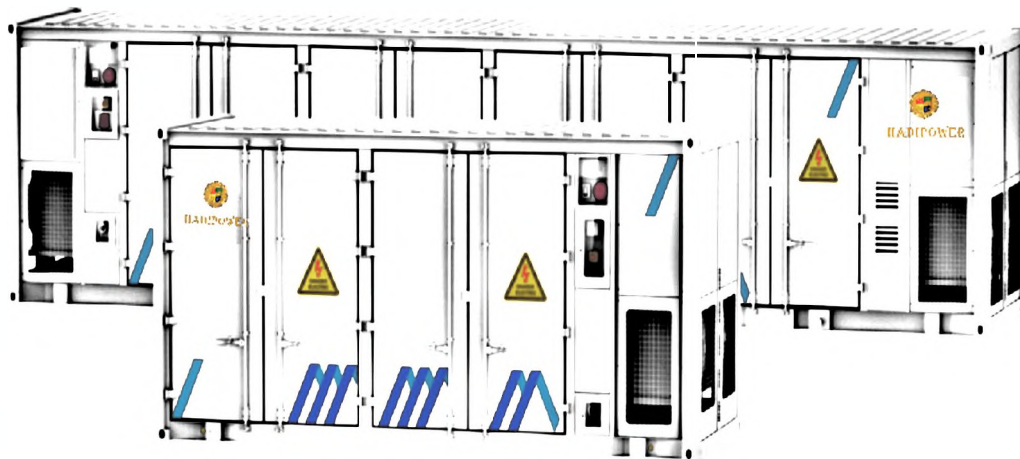




Head Office :Room 1706, Xiashang Plaza, No.123 Hubin Middle Road,
Siming District, Xiamen City, Fujian Province, China

Xiamen Production Line:7-1#, Anren Industrial Park, No. 1068 Jimei North
Avenue, Guankou Town, Jimei District, Xiamen City, Fujian Province, China

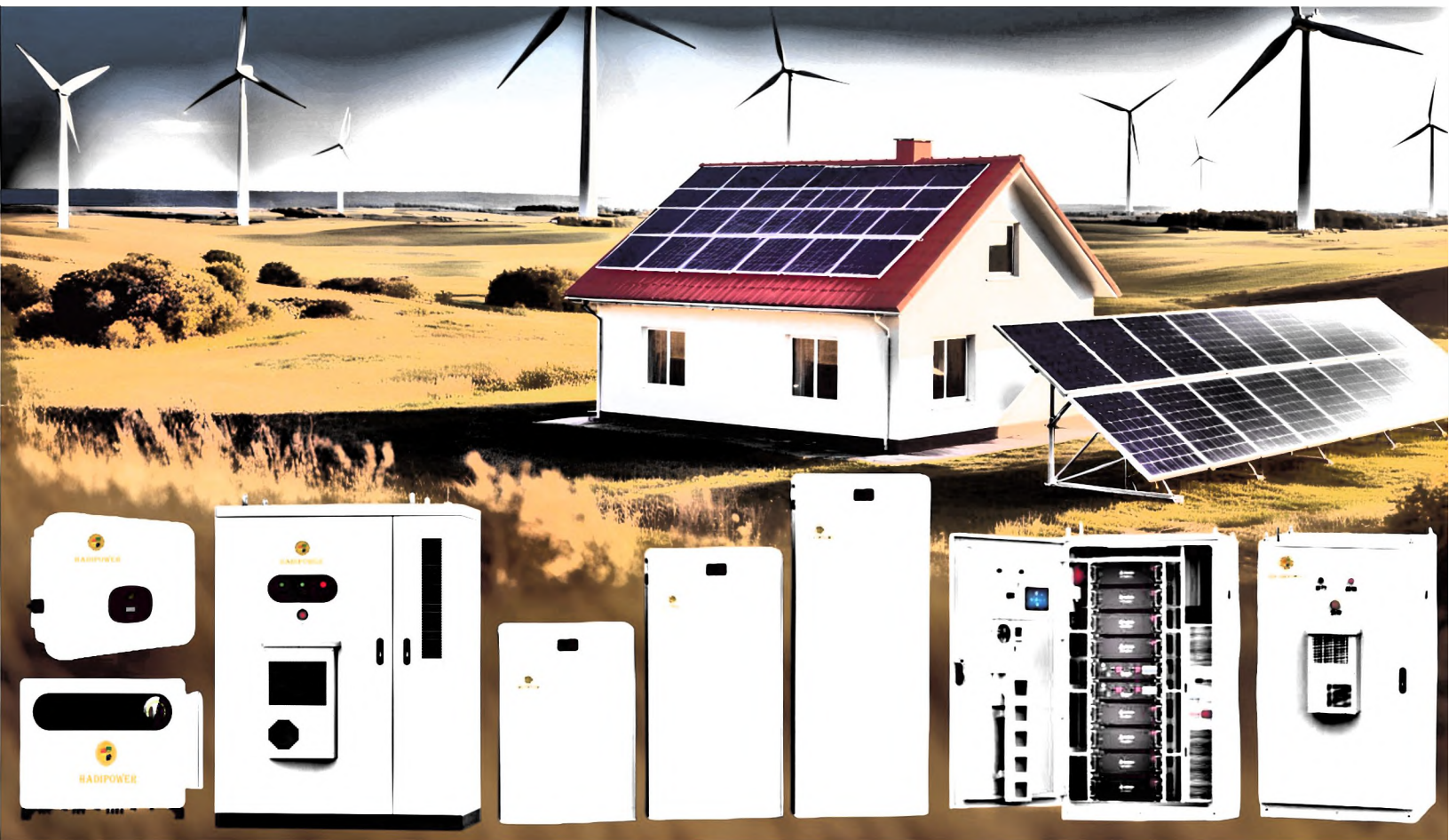
Zhangzhou Production Line:Area A, 1st Floor, No. 1 Xingjing Road, Jiaomei Town,
Zhangzhou Taiwanese Investment Zone, Fujian Province, China

Longyan Production Line:No. 17, Tongxing Road, Shanghang County, Longyan City,
Fujian Province, China

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Only The Best



Energy Storage System

Leading The Green Future



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01

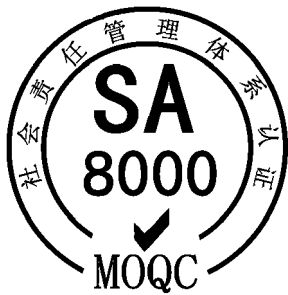
Company Profile

Company Profile

Sinopak Farich Group head office located in Xiamen , China. It has been working in the field of trading,mining and in the Energy Storage System manufacturing .It has 3 manufacturing units for ESS located in Xiamen city ,Zhangzhou city ,Longyan city ,covering a total area of 100000 m² .The anual capacity of our plants is more than 5GWh.We have research and development centers in the cities of Xiamen ,Shenzhen ,Xian ,Hefei and Hangzhou.The investment capital is more than 120 million yuan.Our global presence span 5 continents more than 70 countries world wide .We are committed to fostering, A collabrative workforce ,shareholder confidence and customer satisfaction making us a trusted partner in the energy storage industry.



Certifications



UN38.3
锂电池认证

25 Years
Battery Industry
Experience

900+Mwh
Energy Storage Products
/ Solutions Delivered

600+
Full-time
Employees

3+5+1
Manufacturing Base
/ R&D Center/ Sales
Center

6 GWh
Annual Capacity
6 GWh in Construction

180+
R&D Staff

Quality Assurance

>> Safety Configuration

Our ESS solutions incorporate multi-layered safety control technologies, with comprehensive design specifications and rigorous technical validation across:Electrical Safety;Battery Safety;Functional Safety;Grid Compliance;Environmental Resilience;

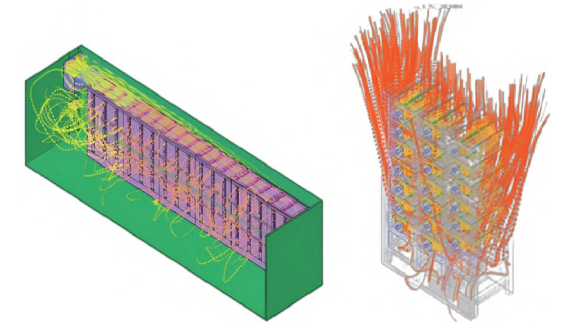
Our Products are developed in full compliance with international standards (UL, IEC), national standards (GB), and stringent corporate specifications. Throughout the product development cycle, we conduct comprehensive validation testing across all critical dimensions:Electrical Performance;Mechanical Integrity;Thermal Management;Functional Safety;Reliability;Safety.This process ensures reliability, stability, and safety for all deployed systems.

>> Safety in Production

ISO 9001 certified, implementing strict quality control across all 38 production processes from material input to final delivery. Our fully digitized production features:Smart Process Monitoring,Comprehensive Quality Assurance,Consistency Guarantee.

>> Safety Testing

During the development to mass production stages, Weinike energy storage products undergo a series of rigorous tests. All internal testing procedures, which exceed industry standards, include a comprehensive test checklist. The Weinike Laboratory is equipped to conduct full-range testing from battery cells to complete systems, ensuring all products leaving the factory meet the highest safety requirements. By utilizing thermal simulation systems for energy storage, potential safety hazards can be quickly identified and addressed, further enhancing overall safety and reliability.



>> International Certification



>> Premium Service

Pre-Sales Service

- Free Consultation: We provide professional and reliable industry advice.
- Budget Control: We match the most cost-effective solutions based on your budget.
- Customized Solutions: High-quality, in-depth tailored energy storage system designs.
- Global Deployment: Worldwide on-site deployment services compliant with local regulations.

In-Sales Service

- Technical Support: Our team of professional engineers provides on-site guidance and deployment assistance to ensure smooth project execution.

After-Sales Service

- After-sales Maintenance: Our dedicated service team is on standby 24/7 to provide comprehensive support.
- Remote Services: Through Liangdao's proprietary cloud platform and various remote tools, we deliver online assistance and technical services.

02

Core Advantages

Battery Management System

Energy management system

Data Visualization Platform

Advanced System Integration
Technology



Core Advantages · Battery Management System

» Battery Management System

Weinike's integrated BMS solution combines battery data acquisition, cell balancing, insulation monitoring, energy metering, system self-check, thermal management, and data processing into a unified platform.

Supporting mainstream communication protocols with a multi-tiered architecture, it offers flexible adaptation to energy storage systems of all scales.

» Key Features

Triple-Layer Safety Architecture & Multi-Protection System

Featuring modular three-tier protection, our architecture ensures fail-safe operation through independent protection strategies at each level. When single-point failures occur, the redundant design maintains system integrity across diverse application scenarios.

Robust Design & Comprehensive Testing Environment

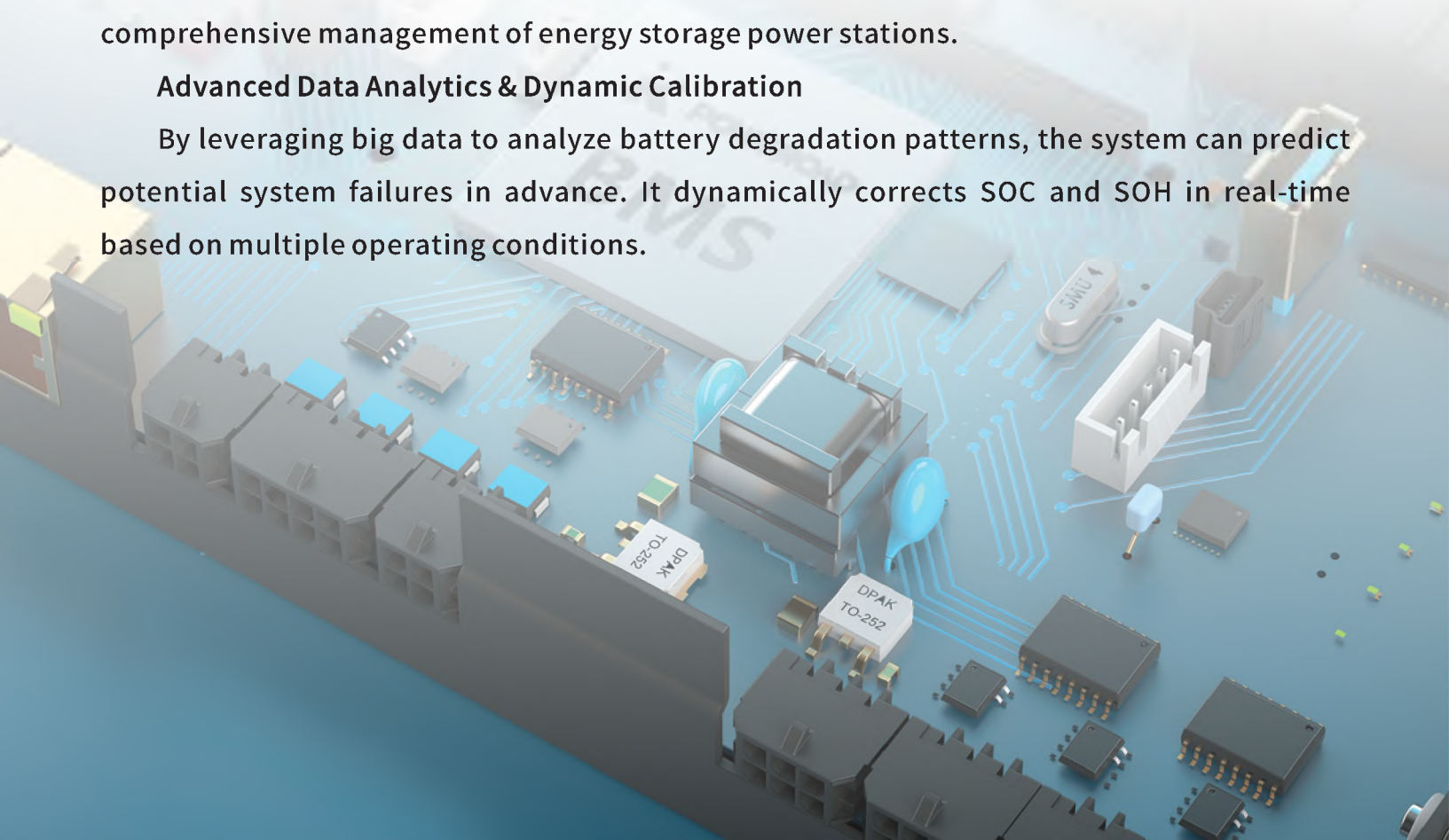
The system incorporates automotive-grade connectors and chips in its core design. Supported by a rigorous testing environment and precision manufacturing processes, we guarantee outstanding product stability and reliability.

Intelligent Management Strategy

The system automatically identifies battery types and adaptive switches battery management and balancing strategies. It supports the integration of external devices and comprehensive management of energy storage power stations.

Advanced Data Analytics & Dynamic Calibration

By leveraging big data to analyze battery degradation patterns, the system can predict potential system failures in advance. It dynamically corrects SOC and SOH in real-time based on multiple operating conditions.



Core Advantages · Battery Management System

M-BMS 	C-BMS 	HVM 	A-BMS 
Project Rated Operating Voltage Operating Voltage Range Rated Power Consumption Cell Monitoring Channel Count Voltage Measurement Range Voltage Measurement Accuracy Communication Interfaces Communication Baud Rate	Project Rated Operating Voltage Operating Voltage Range Rated Power Consumption Communication Interfaces Communication Protocols DI Channel Count DO Channel Count	Project Rated Operating Voltage Operating Voltage Range Rated Power Consumption Communication Interfaces Communication Baud Rate Insulation Monitoring DI Channel Count DO Channel Count	Project Rated Operating Voltage Operating Voltage Range Rated Power Consumption Communication Interfaces Communication Protocols Charge-Discharge Management DI Channel Count DO Channel Count
Parameters DC24V DC18 ~ 28V 2W 16 1.0 ~ 5.0V ±0.2% CAN 250kpbs(Max 1Mbps)	Parameters DC24V DC18 ~ 28V 2.5W Net、CAN*2、RS485 MODBUS TCP/IP MODBUS RTU 6 6	Parameters DC 24V DC18 ~ 28V 2W CAN 250kpbs(Max1Mbps) Support 4 4	Parameters DC24V DC9 ~ 28V 5W Net*2、CAN*6、RS485*4、R5232*3 MODBUSTCP/IP MODBUS RTU Support 8 8
Project Balancing Method Balancing Current Remote Upgrade Temperature Acquisition Channel Count Temperature Measurement Range Temperature Measurement Accuracy Dimensions Weight	Project SOC Measurement Accuracy Charge-Discharge Management Precharge Management Event Logging Remote Upgrade Dimensions Weight	Project Voltage measurement channel count Voltage measurement range Voltage measurement accuracy Current measurement method Current measurement accuracy Remote upgrade Dimensions Weight	Project Environmental Monitoring Sensor Integration Internal Storage Event Logging NTP Time Synchronization Cloud Service Remote upgrade Dimensions Weight
Parameters Bidirectional Active Balancing 1A(Max2A) Support 17 -40 ~ 120°C ±1°C 130x155x30mm 0.5kg	Parameters ≤ ± 5% Support Support Support Support 196x106x32mm 0.5kg	Parameters 2 DC200 ~ 1500V ± 0.2% Shunt Resistor/ Hall Effect Sensor ± 0.5%(Shunt Resistor0 1FS) Support 196x106x32mm 0.5 kg	Parameters Support 32GB SSD Permanent Storage Support Support Support 196x135x33mm 0.7kg

Energy Management System

Energy Management System (EMS) can perform intelligent analysis and enable smart energy management for distributed power sources, energy storage systems (including new energy storage cabinets), photovoltaic systems, wind power systems, power collection systems, and load systems, achieving optimal matching between resources and demand.

It enables early warning and intervention of safety risks, performs energy planning, efficiency analysis, consumption monitoring, and manages equipment and microgrid systems. This allows operation and maintenance personnel to better understand system status, reduce overall operational costs, and provides a foundation for further mining, analyzing, processing, and utilizing energy data.



Key Features:

>> Comprehensive Monitoring



- Full equipment monitoring
- Omni-dimensional surveillance
- 24/7 disaster recovery & fault restoration monitoring
- Multi-battery system coordination control

>> Traceable O&M



- O&M Operations via Digital Work Orders
- One-click dispatch with closed-loop efficiency
- Full-process tracking

>> Intelligent Analysis



- Big Data Analytics - Automatically triggers maintenance/replacement alerts for batteries or equipment based on performance thresholds
- Risk Early-Warning System - Enhances operational efficiency and reduces maintenance costs through predictive failure detection

>> Alarm & Self-healing



- Real-time Monitoring & Alarm - Continuously tracks all operational parameters with instant fault alerts
- Diagnostics & Recovery Guidance

>> Revenue Analytics



- Diverse Revenue Calculation Models
- Multi-Granularity Revenue Analytics
- Multi-Revenue Predictive Electricity Model

>> Lifecycle Review



- Second-level Data Logging Interval
- It provides full lifecycle data of the battery

Energy Management System

>> Functional Value

The Energy Management System (EMS) collects data from various devices and optimizes resource allocation management, thereby maximizing energy absorption, balancing grid fluctuations, suppressing peak demand, reducing capacity expansion needs, equalizing loads, and meeting demand response requirements. Simultaneously, it enables operation and maintenance personnel to monitor system status in real time, lowering overall operational costs and continuously creating added value for customers.

>> User Interface



As the 'most powerful brain' for integrated energy monitoring and management, it provides comprehensive visibility into all operational data.

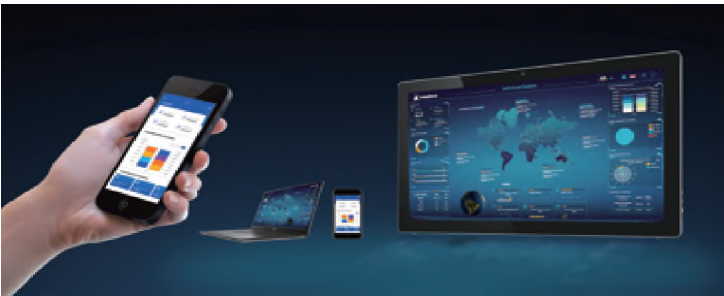


>> Energy Storage Data Visualization Platform (Cloud Platform)

The Energy Storage Data Visualization Platform (Cloud Platform) integrates visual maintenance, refined management, and big data analytics into one comprehensive solution. Once connected to the grid, the energy storage system enables real-time data acquisition, big data analysis, and battery health prediction/alerts. Through the Liangdao Energy Storage Cloud Platform, users can monitor, operate, and maintain battery systems globally. Additionally, extensive data research helps optimize BMS design, improve configuration, and refine operational strategies—continuously reducing O&M costs while delivering greater economic benefits to customers.

>> Interactive View

- Power Generation & Revenue Statistics
- Generation Operation & Distribution Status
- Ranking by Capacity/Revenue/Events
- Environmental Contribution Index
- Topology & System Analysis (ESS Plant/Energy Storage System/Battery Rack/Battery Pack/PCS)



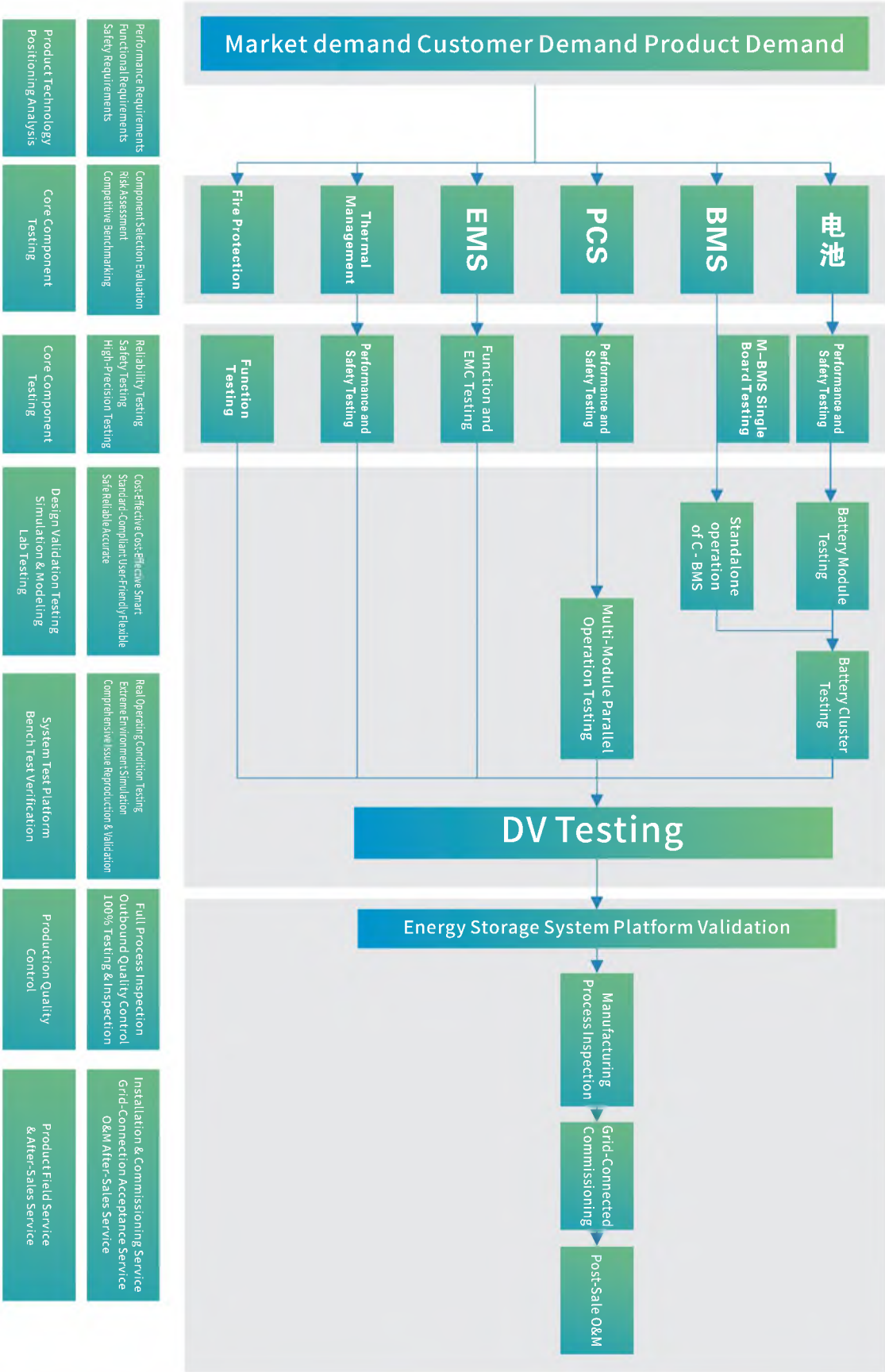
The mobile APP and web terminal enable seamless switching, achieving real-time monitoring and multi-screen interaction for the energy storage system.

>> Core Functions

 Real-time Monitoring	 Fault Prediction & Early Warning	 Alarm Notification	 Maintenance Alert	 Remote Maintenance
 Data Logging	 Revenue Statistics	 Data Storage	 Data Analytics	 Optimization Strategy

Advanced System Integration Technology

The independently developed and produced system integration technology achieves the highest level of reliability, consistency, and safety in battery grouping, structural-electrical integration, and comprehensive safety functions. This ensures that the battery system products are more stable, reliable, safer, and have a longer service life.



Energy Storage System Product Development Capability

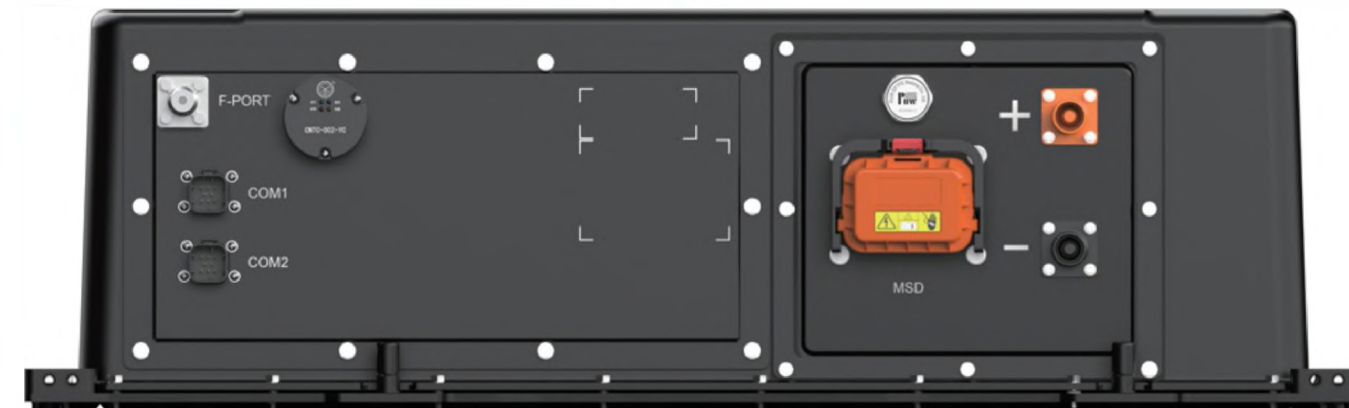
Based on extensive experience and capabilities in comprehensive testing and evaluation—including "system functional requirement extraction," "in-house R&D of core components," "key component selection," "system design validation," and "energy storage system platform verification"—we ensure the quality and safety of our products.

03

Energy Storage Products



Liquid-cooled Battery Module



product superiority

» Battery Quality

- High-Performance Battery Cells: Safer LiFePO₄ (LFP) chemistry
- Long Cycle Life: 8,000 cycles
- International Certifications: GB/T 36276, IEC, CE, UN38.3 compliant
- High Energy Density: Compact footprint for space efficiency
- Precision Voltage Sampling

» Flexible Configuration

- Compatible with all Weinike commercial & industrial energy storage product series
- Integrable with Weinike containerized energy storage system product line

» Modular Design

- Equipped with up to "N+1" temperature sampling points for faster response
- Excellent structural temperature rise and uniform temperature design, effectively preventing heat accumulation and thermal runaway
- Modular design for quick installation and convenient maintenance

» Safety Design

- High strength, short-circuit proof, high-voltage resistant, and arc-flash protected
- Built-in multi-functional detector for early warning of cell thermal runaway
- Adopts PACK-level fire protection design, supporting single-module suppression to minimize hazard scope

Specification Name	Performance Parameters		Remarks
Configuration	1P52S	1P52S	
Cell Rated Capacity	L FP314A h	L FP280A h	25±2°C, Standard Charge/Discharge
Rated Voltage	166.4V	166.4V	
Rated Energy	52.250kwh	46.592kwh	25±2°C, Standard Charge/Discharge
Standard Charging State	CC/CV	CC/CV	
	Charge Current: 157A(0.5C)	Charge Current: 140A(0.5C)	25±2°C
	Cut-off Voltage 187.2V	Cut-off Voltage: 187.2V	
	Cut-off Current: 15.7A(0.05C)	Cut-off Current: 14A(005C)	
Standard Discharging State	CC	CC	
	Discharge Current 157A(0.5C)	Discharge Current: 140A(0.5C)	25±2°C
	Cut-off Voltage: 140.4V	Cut-off Voltage: 14a0.4v	
Maximum Continuous Charge Rate	0.5P		15~40°C
Maximum Continuous Discharge Rate	0.5P		15~40°C
Operating Temperature Range	0 ~ 40°C (Ambient Temperature)		
Operating Humidity Range	5%~85% RH (Condensation-Free)		
Recommended Operating Temperature Range	23 ± 4°C		
Storage Temperature Range	-30-60°C(Approx. 7-Day Storage Capability)		Recommended Storage at 40%~50% State of Charge
	-20-45°C(Approx. 6-Month Storage Capability)		
Product Dimensions (WDXH)	810x1150x243±3mm		
Applicable Altitude	≤2000m		
Weight	350±5kg		
Certifications	GB/T 36276、IEC、CE、UN38.3		

Liquid-cooled Battery Module

The energy storage battery module, as the fundamental building block of energy storage systems, is constructed with LFP battery cells, delivering robust performance and guaranteed safety reliability



product superiority

>> Battery Quality

- High-Performance Battery Cells: Safer LiFePO4 (LFP) chemistry
- Long Cycle Life: 8,000 cycles
- International Certifications: GB/T 36276, IEC, CE, UL, UN38.3 compliant
- High Energy Density: Compact footprint for space efficiency
- Precision Voltage Sampling: $\pm 10\text{mV}$ accuracy for enhanced BMS control

>> Flexible Configuration

- Compatible with all Weinike commercial & industrial energy storage product series
- Integrable with Weinike containerized energy storage system product line

>> Modular Design

- Equipped with up to "N+1" temperature sampling points for faster response
- Excellent structural temperature rise and uniform temperature design, effectively preventing heat accumulation and thermal runaway
- Modular design for quick installation and convenient maintenance

>> Safety Design

- Enclosure and structural supports are entirely constructed with high-strength, insulated, flame-retardant plastic/rubber components, delivering:Exceptional mechanical strength;Short-circuit prevention;High-voltage resistance;Arc-flash protection

Specification Name	Performance Parameters		Remarks
Configuration	1P16S	1P24S	
Cell Rated Capacity	LEP280Ah	LEP280Ah	25±2°C, Standard Charge/Discharge
Rated Voltage	51.2V	76.8V	
Rated Energy	14.336kwh	21.504kwh	25±2°C, Standard Charge/Discharge
Standard Charging State	CC/CV	CC/CV	
	Charge Current: 140A(0.5C)	Charge Current: 140A(0.5C)	25±2°C
	Cut-off Voltage 57.6V	Cut-off Voltage 86.4V	
	Cut-off Current: 14A(0.05C)	Cut-off Current: 14A(0.05C)	
Standard Discharging State	CC	CC	
	Discharge Current 140A(0.5C)	Discharge Current 140A(0.5C)	25±2°C
	Cut-off Voltage: 43.2V	Cut-off Voltage: 64.8V	
Maximum Continuous Charge Rate	0.5P		20~40°C
Maximum Continuous Discharge Rate	0.5P		15~40°C
Operating Temperature Range	0 ~ 40°C (Ambient Temperature)		
Operating Humidity Range	5%~85% RH (Condensation-Free)		
Recommended Operating Temperature Range	23 ± 4°C		
Storage Temperature Range	-30-60°C(Approx. 7-Day Storage Capability)		Recommended Storage at 40%~50% State of Charge
	-20-45°C(Approx. 6-Month Storage Capability)		
Product Dimensions (WDXH)	475x704x230±3mm	475x1000x230±3mm	
Applicable Altitude	≤2000m		
Weight	102kg±1kg	155kg±1kg	
Certifications	GB/T 36276、IEC、CE、UL、UN38.3		

Battery Cluster

product superiority

>> Battery Quality

- High-Performance Battery Cells: Safer LiFePO4 (LFP) chemistry
- Extended Cycle Life: 8,000 cycles
- International Certifications:GB/T 36276、IEC、CE、UL、UN38.3
- High Energy Density: Compact footprint for space efficiency
- Precision Voltage Sampling

>> Intelligent O&M

- A three-level BMS (Battery Management System) management system enables real-time intelligent monitoring of data, automatic inspection, and operation and maintenance (O&M) dispatch, reducing O&M difficulties. The total station system supports synchronous upgrades, eliminating the need to upgrade each system unit individually, which significantly reduces O&M costs.

>> Flexible Configuration

- Compatible with Weinike's Containerized ESS Solutions
- Dual-Voltage Platform (1000VDC/1500VDC) for Multi-Scenario Applications

>> Modular Design

- Equipped with up to "N+1" temperature sampling points for faster response
- Excellent structural temperature rise and uniform temperature design, effectively preventing heat accumulation and thermal runaway
- Modular design for quick installation and convenient maintenance

Specification Name	Performance Parameters		Remarks
Configuration	1P240S	1P408S	
Cell Rated Capacity	LFP280Ah	LFP280Ah	25±2℃, Standard Charge/Discharge
Rated Voltage	768V	1305.6V	
Rated Energy	215.04kwh	365.568kwh	25±2℃, Standard Charge/Discharge
Standard Charging State	CC/CV	CC/CV	
	Charge Current: 140A(0.5C)	Charge Current: 140A(0.5C)	25±2℃
	Cut-off Voltage 864V	Cut-off Voltage 1468.8V	
	Cut-off Current: 14A(0.05C)	Cut-off Current: 14A(0.05C)	
Standard Discharging State	CC	CC	
	Discharge Current 140A(0.5C)	Discharge Current 140A(0.5C)	25±2℃
	Cut-off Voltage: 648V	Cut-off Voltage: 1101.6V	
Maximum Continuous Charge Rate	0.5P		20~40℃
Maximum Continuous Discharge Rate	0.5P		15~40℃
Operating Temperature Range	0 ~ 40℃ (Ambient Temperature)		
Operating Humidity Range	5%~85% RH (Condensation-Free)		
Recommended Operating Temperature Range	23 ± 4℃		
Storage Temperature Range	-30-60℃(Approx. 7-Day Storage Capability)		Recommended Storage at 40%~50% State of Charge
	-20-45℃(Approx. 6-Month Storage Capability)		
Product Dimensions (WDXH)	1120x730x2145mm	1120x1020x2385mm	
Applicable Altitude	≤2000m		
Weight	1.9t	3.2t	
Certifications	GB/T 36276、IEC、CE、UL、UN38.3		



product superiority



Safe and Reliable

- Utilizes LiFePO4 cells with superior thermal stability, enhanced safety and extended cycle life.
- The integrated technical system is equipped with comprehensive safety features, standardized modular design, and consistent quality control to achieve high-level safety performance.
- Advanced Proactive Early Warning & Electrical Protection:
Equipped with multi-level fault diagnosis and electrical safeguards, the system features real-time fire detection, combustible gas monitoring, and an automated fire suppression system (options include perfluorohexanone or aerosol extinguishing agents)
- The cabinet features IP55 protection rating, ensuring reliable operation in diverse harsh environments

Cost-Effective

- Higher energy density, reducing footprint requirements
- Liquid-cooled intelligent temperature control with low energy consumption and higher energy efficiency, ensuring minimal battery temperature rise and small temperature differentials, thereby extending system lifespan and lowering leveled cost of storage
- Intelligent leak detection and automatic fluid replenishment, reducing manual maintenance efforts

Specification Name	FLEX-208	FLEX-232	FLEX-261
Rated Power	100kw	100kw/125kw/200kw	125KW
Cell Nominal Capacity	LFP314Ah	L FP280A h	LFP314Ah
Nominal Energy	208kwh	+232kwh	261kwh
Rated Voltage	665.6V	832V	832V
Maximum Charge Voltage	748.8V	936V	936V
Minimum Charge Voltage	600V	702V	702V
Rated Charge/Discharge Rate	0.5P	0.5/1P	0.5P
Discharging Temperature Range	-30~45℃		
Charging Temperature Range	0~45℃		
Ambient Temperature	-30~55℃		
Storage Temperature	-30~60℃		
Relative Humidity	5%~95% (Condensation-Free)		
Temperature Uniformity	≤ 5℃		
Altitude	≤ 3000m		
Cooling Method	Liquid Cooling		
IP Rating	IP55		
Communication Method	RS485/Ethernet		
Dimensions(WXDXH)	1350x1300x2000mm		
Weight	2.2t	2.4	2.5t
Certifications	GB/T 36276、IEC、CE、UL、UN38.3		
Primary Application Scenarios	C&I、Residential、Microgrid、Distributed Generation Mandatory Allocation、Peak-Valley Arbitrage、Demand Charge Management、Backup Power Supply、Black Start Capability.....		

Scalable

- Standardized cabinet design, enabling flexible modular expansion to cover a capacity range of 208kWh–2610kWh
- 1-hour or 2-hour duration configurations, enabling faster investment payback periods

User-Friendly

- Pre-assembled design with integrated transportation enables rapid deployment, installation, and commissioning, significantly shortening project timelines
- Simplified system architecture with appliance-like installation for true plug-and-play operation
- Standardized training, operation, and maintenance procedures

Intelligent & User-Friendly

- Cloud and mobile app-based online management with simple operation, enabling real-time remote monitoring and historical data query
- Software and energy storage operation strategies support online updates.
- Optional smart power management application provides automated ancillary service bidding, electricity market price forecasting, and real-time energy storage asset valuation.

product superiority

Safe and Reliable

- Utilizes LiFePO4 cells with superior thermal stability, enhanced safety and extended cycle life.
- The integrated technical system is equipped with comprehensive safety features, standardized modular design, and consistent quality control to achieve high-level safety performance.
- Advanced Proactive Early Warning & Electrical Protection:
Equipped with multi-level fault diagnosis and electrical safeguards, the system features real-time fire detection, combustible gas monitoring, and an automated fire suppression system (options include perfluorohexanone or aerosol extinguishing agents)
- The cabinet features IP55 protection rating, ensuring reliable operation in diverse harsh environments.

Intelligent & User-Friendly

- Cloud and mobile app-based online management with simple operation, enabling real-time remote monitoring and historical data query
- Software and energy storage operation strategies support online updates.
- Optional smart power management application provides automated ancillary service bidding, electricity market price forecasting, and real-time energy storage asset valuation.

Specification Name	FLEX-372	FLEX-417
Nominal Energy	372kwh	417kwh
Cell Nominal Capacity	LFP280Ah	LFP314Ah
Rated Voltage	1331.2V	
Maximum Charge Voltage	1498V	
Minimum Charge Voltage	1123V	
Rated Charge/Discharge Rate	0.5/1P	0.5P
Discharging Temperature Range	-30~45℃	
Charging Temperature Range	0~45℃	
Ambient Temperature	-30~55℃	
Storage Temperature	-30~60℃	
Relative Humidity	5%95% (Condensation-Free)	
Temperature Uniformity	≤ 3℃	
Altitude	≤ 3000m	
Cooling Method	Liquid Cooling	
IP Rating	IP55	
Communication Method	RS485/Ethernet	
Dimensions (WXDXH)	1350x1300x2260mm	
Weight	3.5t	3.8t
Certifications	GB/T 36276IEC、CE、UL、UN38.3	
Primary Application Scenarios	C&I、Residential、Microgrid、Distributed Generation Mandatory Allocation、Peak-Valley Arbitrage、Demand Charge Management、Backup Power Supply、Black Start Capability.....	



Cost-Effective

- Higher energy density, reducing footprint requirements
- Liquid-cooled intelligent temperature control with low energy consumption and higher energy efficiency, ensuring minimal battery temperature rise and small temperature differentials, thereby extending system lifespan and lowering leveled cost of storage
- Intelligent leak detection and automatic fluid replenishment, reducing manual maintenance efforts

Scalable

- Standardized cabinet design, enabling flexible modular expansion to cover a capacity range of 372kWh–4179kWh
- Multiple configuration options ranging from 1 to 5 hours are available to achieve optimal cost-benefit control

User-Friendly

- Pre-assembled design with integrated transportation enables rapid deployment, installation, and commissioning, significantly shortening project timelines
- Simplified system architecture with appliance-like installation for true plug-and-play operation
- Standardized training, operation, and maintenance procedures

Air-cooled C&I All-in-One Energy Storage Outdoor Cabinet

product superiority



>> Cost-Effective

- Advanced uniform thermal management design with 15+ years service life under standard operating conditions
- High energy density (up to 180kWh/m²) for compact footprint

>> Scalable

- Flexible scalability covering 215kWh to 2150kWh capacity range
- Configurable 2-hour duration options

>> User-Friendly

- Pre-assembled design with integrated transportation enables rapid deployment, installation, and commissioning, significantly shortening project timelines
- Simplified system architecture with appliance-like installation for true plug-and-play operation
- Standardized training, operation, and maintenance procedures

>> Safe and Reliable

- Utilizes LiFePO₄ cells with superior thermal stability, enhanced safety and extended cycle life.
- The integrated technical system is equipped with comprehensive safety features, standardized modular design, and consistent quality control to achieve high-level safety performance.
- Advanced Proactive Early Warning & Electrical Protection:
Equipped with multi-level fault diagnosis and electrical safeguards, the system features real-time fire detection, combustible gas monitoring, and an automated fire suppression system (options include perfluorohexanone or aerosol extinguishing agents)
- The cabinet features IP55 protection rating, ensuring reliable operation in diverse harsh environments

>> Intelligent & User-Friendly

- Cloud and mobile app-based online management with simple operation, enabling real-time remote -and historical data query
- Software and energy storage operation strategies support online updates.
- Optional smart power management application provides automated ancillary service bidding, electricity market price forecasting, and real-time energy storage asset valuation.

Specification Name	FLEX-215 (AIO)
Rated Power	100kw
Cell Nominal Capacity	LFP280Ah
Nominal Energy	215kwh
Rated Voltage	768V
Maximum Charge Voltage	864V
Minimum Charge Voltage	648V
Rated Charge/Discharge Rate	0.5P
Discharging Temperature Range	-30~45°C
Charging Temperature Range	0~45°C
Ambient Temperature	-20~45°C
Storage Temperature	-30~55°C
Relative Humidity	5%~95% (Condensation-Free)
Temperature Uniformity	≤ 8°C
Altitude	≤ 2000m
Cooling Method	Liquid Cooling
IP Rating	IP55
Communication Method	RS485/Ethernet
Dimensions (WDXH)	1600x1000x2150mm
Weight	2.2t
Certifications	GB/T 36276、IEC、CE、UL、UN38.3
Primary Application Scenarios	C&I、Residential、Microgrid、Distributed Generation Mandatory Allocation、Peak-Valley Arbitrage、Demand Charge Management、Backup Power Supply、Black Start Capability.....

Air-cooled C&I Battery Storage Outdoor Cabinet FLEX-215

product superiority

>> Safe and Reliable

- Utilizes LiFePO₄ cells with superior thermal stability, enhanced safety and extended cycle life.
- The integrated technical system is equipped with comprehensive safety features, standardized modular design, and consistent quality control to achieve high-level safety performance.
- Advanced Proactive Early Warning & Electrical Protection:
Equipped with multi-level fault diagnosis and electrical safeguards, the system features real-time fire detection, combustible gas monitoring, and an automated fire suppression system (options include perfluorohexanone or aerosol extinguishing agents)
- The cabinet features IP55 protection rating, ensuring reliable operation in diverse harsh environments

>> Intelligent & User-Friendly

- Cloud and mobile app-based online management with simple operation, enabling real-time remote monitoring and historical data query
- Software and energy storage operation strategies support online updates.
- Optional smart power management application provides automated ancillary service bidding, electricity market price forecasting, and real-time energy storage asset valuation.

Specification Name	FLEX-215
Cell Nominal Capacity	LFP280Ah
Nominal Energy	215kwh
Rated Voltage	768V
Maximum Charge Voltage	864V
Minimum Charge Voltage	648V
Rated Charge/Discharge Rate	0.5P
Discharging Temperature Range	-30~45°C
Charging Temperature Range	0~45°C
Ambient Temperature	-20~45°C
Storage Temperature	-30~55°C
Relative Humidity	5%~95% (Condensation-Free)
Temperature Uniformity	≤ 8°C
Altitude	≤ 2000m
Cooling Method	Air-cooling
IP Rating	IP55
Communication Method	RS485/Ethernet
Dimensions(WDXH)	1200x1000x2100mm
Weight	2t
Certifications	GB/T 36276、IEC、CE、UL、UN38.3
Primary Application Scenarios	C&I、Residential、Microgrid、Distributed Generation Mandatory Allocation、Peak-Valley Arbitrage、Demand Charge Management、Backup Power Supply、Black Start Capability.....



>> Cost-Effective

- Advanced uniform thermal management design with 15+ years service life under standard operating conditions
- High energy density (up to 180kWh/m²) for compact footprint

>> Scalable

- Flexible scalability covering 215kWh to 2150kWh capacity range
- Multiple configuration options ranging from 2 to 5 hours are available

>> User-Friendly

- Pre-assembled design with integrated transportation enables rapid deployment, installation, and commissioning, significantly shortening project timelines
- Simplified system architecture with appliance-like installation for true plug-and-play operation
- Standardized training, operation, and maintenance procedures

Air-cooled All-in-One C&I Energy Storage Outdoor CabinetFLEX-126

product superiority

Safe and Reliable

- Triple Electrical Protection with Five-Level Active Isolation
- Proven Integration Technology - 7 Years Global Operation with Zero Incidents
- Multi-Stage Protection Mechanism with Comprehensive Environmental Monitoring

Balanced Management

- 100% Full-Capacity Equalization Technology
- High-Precision SOC Management ($\leq \pm 3\%$ Error) with Bidirectional Active Balancing
- Multi-Level BMS Architecture with Cloud-Based O&M Control

Cost-Effective

- High-efficiency thermal management design improves cell temperature consistency and extends system lifespan
- Supports EMS dispatch and integration into energy internet systems
- Complies with multiple grid-connection standards and international certifications for global market requirement

Intelligent O&M

- Optional smart cloud platform system supports cloud sharing, power plant management, big data analysis, and report statistics
- Paired with the cloud platform, it enables full lifecycle data and event recording for traceability and querying.
- Features remote monitoring interfaces for seamless integration with user backend systems

Highly Integrated Design

- Standardized design with modular assembly enables simple installation and convenient maintenance
- Compact footprint with short construction cycles and strong environmental adaptability



Specification Name	FLEX-126
Cell Nominal Capacity	LFP150Ah
Rated Power	100kw/125kw
Nominal Energy	103.68-126.72kwh
Rated Voltage	844.8V
Maximum Charge Voltage	950.4V
Minimum Charge Voltage	712.8V
Rated Charge/Discharge Rate	1P
Discharging Temperature Range	-20℃~45℃
Charging Temperature Range	0~45℃
Ambient Temperature	-20℃~50℃(>45℃ Frequency Derating)
Storage Temperature	-30℃~60℃
Relative Humidity	$\leq 95\%$
Temperature Uniformity	$\leq 8^{\circ}\text{C}$
Altitude	> 2000m Frequency Derating
Cooling Method	Air-cooling
IP Rating	IP54
Communication Method	RS485/Ethernet
Dimensions(WXDXH)	1360x1065x2150mm
Weight	1.4t-1.5t
Primary Application Scenarios	C&I, School, Farm, Household, Peak-Valley Arbitrage, Grid Capacity Expansion, Demand Response.....

Containerized liquid-cooled energy storage systemCENTRIC-L 20/20M/20S

product superiority

Intelligent liquid cooling

- Intelligent liquid cooling temperature control reduces auxiliary power consumption and improves system efficiency.
- Smart leak detection and automatic fluid replenishment minimize manual maintenance efforts
- With automotive-grade liquid cooling reliability, the system maintains a temperature difference of $\leq 3^{\circ}\text{C}$.

Cost-Effective

- The "cell-module-battery cluster" three-level active balancing design resolves the "short-board effect" and enhances system cycle life, while the liquid cooling system reduces energy consumption and improves charge-discharge efficiency
- It supports diverse application scenarios, including commercial & industrial use, residential energy storage, microgrids, distributed mandatory allocation, peak-valley arbitrage, demand control, backup power, and black start capability

Highly Integrated Design

- The system features a self-developed battery management system that highly integrates the battery system, liquid cooling system, automatic fire suppression system, environmental monitoring system, and lighting system
- The "cell-module-battery cluster" three-level active balancing design resolves the "short-board effect" and enhances system cycle life, while the liquid cooling system reduces energy consumption and improves charge-discharge efficiency
- With standardized modular design, factory pre-assembly, and containerized transportation, it eliminates on-site battery installation and commissioning, reducing project commissioning costs and shortening delivery cycles

Intelligent O&M

- A three-level BMS management system enables real-time intelligent monitoring of data, automatic inspection, and O&M dispatch, reducing O&M difficulties.
- The total station system supports synchronous upgrades, eliminating the need to upgrade each system unit individually, which significantly reduces O&M costs.

Safe and Reliable

- It adopts high-end lithium iron phosphate (LFP) battery cells with high energy density and long cycle life
- The integrated system features comprehensive safety protections, including a five-level safety interlock (cell-module-cluster-battery system-AC system) to prevent thermal runaway and block heat propagation.
- A cell thermal runaway early warning mechanism, combined with automatic fire suppression and water-based firefighting systems, ensures dual-layer protection for safer operation.



Specification Name	CENTRIC-L 20	CENTRIC-L 20M	CENTRIC-L 20S
Cell Nominal Capacity	L FP280A h	L FP280A h	L FP314A h
Nominal Energy	3.35Mwh	3.72Mwh	5.01Mwh
Rated Voltage	1331.2V		
Maximum Charge Voltage	1497.6V		
Minimum Charge Voltage	1123.2V		
Rated Charge/Discharge Rate	0.5/1P		0.5P
Discharging Temperature Range	-30~45℃		
Charging Temperature Range	0~45℃		
Ambient Temperature	-30~55℃		
Storage Temperature	-30~60℃		
Relative Humidity	5%~95% (Condensation-Free)		
Temperature Uniformity	$\leq 3^{\circ}\text{C}$		
Altitude	$\leq 3000\text{m}$		
Cooling Method	Air-cooling		
IP Rating	IP55		
Communication Method	RS485/Ethernet		
Dimensions(WXDXH)	6450x2438x2896mm	6058x2438x2896mm	6450x2438x2896mm
Weight	33t	36t	45t
Certifications	GB/T 36276、IEC、CE、UL、UN38.3		
Primary Application Scenarios	C&I、Residential、Microgrid、Distributed Generation Mandatory Allocation、Peak-Valley Arbitrage、Demand Charge Management、Backup Power Supply、Black Start Capability.....		

Containerized air-cooled energy storage systemCENTRIC-A 20/40

product superiority

>> Safe and Reliable

- It adopts high-end lithium iron phosphate (LFP) battery cells with high energy density and long cycle life
- The integrated system features comprehensive safety protections, including a five-level safety interlock (cell-module-cluster-battery system-AC system) to prevent thermal runaway and block heat propagation.
- A cell thermal runaway early warning mechanism, combined with automatic fire suppression and water-based firefighting systems, ensures dual-layer protection for safer operation.
- The intelligent air conditioning system ensures a temperature differential of ≤8°C within the system.

>> Cost-Effective

- The "cell-module-battery cluster" three-level active balancing design resolves the "short-board effect" and enhances system cycle life, while the liquid cooling system reduces energy consumption and improves charge-discharge efficiency
- The system delivers low energy consumption and high charge-discharge efficiency.
- It supports diverse application scenarios, including commercial & industrial use, residential energy storage, microgrids, distributed mandatory allocation, peak-valley arbitrage, demand control, backup power, and black start capability

>> Highly Integrated Design

- The system features a self-developed battery management system that highly integrates the battery system, liquid cooling system, automatic fire suppression system, environmental monitoring system, and lighting system
- The battery modular design enables easier replacement and maintenance.
- With standardized modular design, factory pre-assembly, and containerized transportation, it eliminates on-site battery installation and commissioning, reducing project commissioning costs and shortening delivery cycles

>> Intelligent O&M

- A three-level BMS management system enables real-time intelligent monitoring of data, automatic inspection, and O&M dispatch, reducing O&M difficulties.
- The total station system supports synchronous upgrades, eliminating the need to upgrade each system unit individually, which significantly reduces O&M costs.



Specification Name	CENTRIC-A 20	CENTRIC-A40
Cell Nominal Capacity	LFP280Ah	
Nominal Energy	2.55Mwh	5.11Mwh
Rated Voltage	1305.6V	
Maximum Charge Voltage	1468.8V	
Minimum Charge Voltage	1 101.6V	
Rated Charge/Discharge Rate	0.5P	
Discharging Temperature Range	-30~45°C	
Charging Temperature Range	0~45°C	
Ambient Temperature	-20~-45°C	
Storage Temperature	-30~55°C	
Relative Humidity	5%~95% (Condensation-Free)	
Temperature Uniformity	≤8°C	
Altitude	≤2000m	
Cooling Method	Air-cooling	
IP Rating	IP55	
Communication Method	RS485/Ethernet	
Dimensions(WDXH)	6058x2438x2896mm	12192x2438x2896mm
Weight	32t	55t
Certifications	GB/T 36276、IEC、CE、UL、UN38.3	
Primary Application Scenarios	C&I、Residential、Microgrid、Distributed Generation Mandatory Allocation、Peak-Valley Arbitrage、Demand Charge Management、Backup Power Supply、Black Start Capability.....	

Cabinet-style residential energy storage system (low voltage)ERA L2-48

product superiority

High reliability

Self-developed BMS with multi-layer protection

Scalable configuration

Scalable capacity from 5.04 kWh up to 75.6 kWh

High compatibility

Compatible with mainstream inverter brands on the market

Enhanced safety

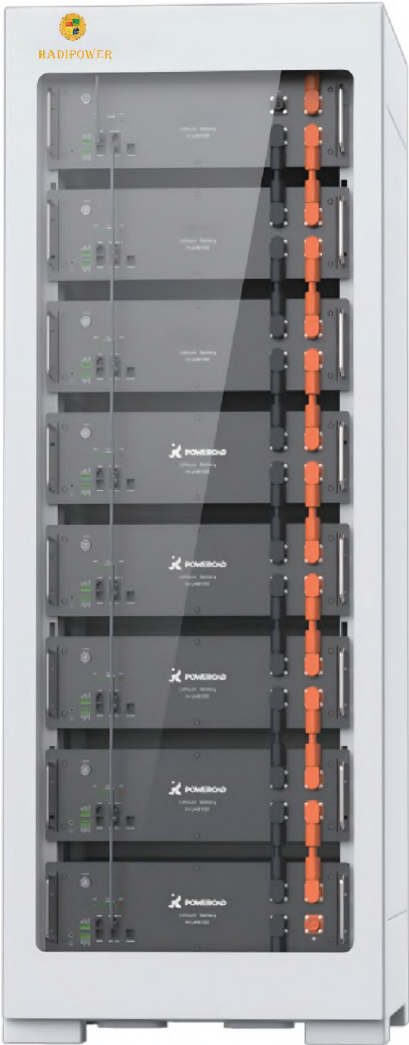
Cell-level monitoring and balancing for extended lifespan

Easy installation

Modular design for rapid installation and disassembly

APP-based monitoring

Supports real-time remote monitoring and system upgrades



Specification Name	ERA L2-48
Configuration	1 P15S
Nominal Energy	5.04kwh
Nominal Voltage	48V
Nominal Capacity	105A h
Charge Voltage Range	51~54V
Standard charging current	21A
Rated charging current	52.5A
Standard Discharge Current	21A
Rated Discharge Current	52.5A
DischargingTemperature Range	-10°C~ 45°C
Charging Temperature Range	0 ~ 45 °C
Storage Temperature	-10°C~45°C
Communication Method	CAN/RS485
Relative Humidity	5% ~ 95%
Altitude	≤2000m
Cooling Method	Natural Cooling
IP Rating	IP 20
Dimensions(WDXH)	442x450x145mm
Single Module Dimensions	44kg±1.0kg
Single Module Weight	CE、UN38.3
Primary Application Scenarios	Household,Small C&I,Microgrid,Backup Power Supply.....

Cabinet-style residential energy storage system (low voltage)ERA L2-51

product superiority

High reliability

Self-developed BMS with multi-layer protection

Scalable configuration

Scalable capacity from 5.22 kWh up to 78.3 kWh

High compatibility

Compatible with mainstream inverter brands on the market

Enhanced safety

Cell-level monitoring and balancing for extended lifespan

Easy installation

Modular design for rapid installation and disassembly

APP-based monitoring

Supports real-time remote monitoring and system upgrades



Specification Name	ERA L2-51
Configuration	1P16S
Nominal Energy	5.22kwh
Nominal Voltage	51.2V
Nominal Capacity	102A h
Charge Voltage Range	54.4 ~ 57.6V
Standard charging current	20.4A
Rated charging current	51A
Standard Discharge Current	20.4A
Rated Discharge Current	51A
DischargingTemperature Range	-10℃~45℃
Charging Temperature Range	0-45℃
Storage Temperature	-20~45℃
Communication Method	CAN/RS485
Relative Humidity	≤95% (Condensation-Free)
Altitude	≤2000m
Cooling Method	Natural Cooling
IP Rating	IP 20
Dimensions(WXDXH)	442x450x145mm
Single Module Dimensions	44kg
Single Module Weight	CE, UN38.3
Primary Application Scenarios	Household,Small C&I,Microgrid,Backup Power Supply.....

Cabinet-style residential energy storage system (High voltage)ERA H1

product superiority

High reliability

Self-developed BMS with multi-layer protection

Scalable configuration

Scalable capacity from 5.32 kWh up to 212.8 kWh

High compatibility

Compatible with mainstream inverter brands on the market

Enhanced safety

Cell-level monitoring and balancing for extended lifespan

Easy installation

Modular design for rapid installation and disassembly

APP-based monitoring

Supports real-time remote monitoring and system upgrades



Specification Name	ERA H1
Configuration	1 master control unit + 2 battery cabinets
Nominal Energy	10.65kwh
Nominal Voltage	204.8V
Nominal Capacity	52Ah
Charge Voltage Range	217.6~233.6V
Standard charging current	10.4A
Rated charging current	26A
Standard Discharge Current	10.4A
Rated Discharge Current	26A
Discharging Temperature Range	-10℃~ 45℃
Charging Temperature Range	0 ~ 45 ℃
Storage Temperature	-20-45℃
Communication Method	CAN/RS485
Relative Humidity	5% ~95%
Altitude	≤2000m
Cooling Method	Passive Cooling
IP Rating	IP 20
Dimensions(WXDXH)	442x450x145mm
Single Module Dimensions	50kg
Single Module Weight	CE, UN38.3
Primary Application Scenarios	Household,Small C&I,Microgrid,Backup Power Supply.....

Stackable Low-Voltage Residential Energy Storage SystemMETA L2

product superiority

High reliability

Self-developed BMS with multi-layer protection

Scalable configuration

Scalable capacity from 5.04kWh up to 211.7kWh

High compatibility

Compatible with mainstream inverter brands on the market

Enhanced safety

LFP battery cells with cell-level monitoring and balancing

Easy installation

Plug-and-play operation, no additional cabling required

APP-based monitoring

Supports real-time remote monitoring and system upgrades



Specification Name	META L2			
Battery type	LiFe po4			
System energy capacity	10.08kwh	15.12kwh	20.16kwh	25.2kwh
System voltage	48V			
System capacity	210A h	315A h	420A h	525A h
Control module model	HSC-48100			
Battery module model	H-S48100			
Number of battery modules	2	3	4	5
Battery module energy capacity	5.04kwh			
Battery module voltage	48V			
Battery module capacity	105A h			
Communication Method	CAN/RS485			
System maximum charging voltage	54V			
System standard charging current	42A	63A	84A	105A
System normal charging current	105A	157.5A	160A	160A
System maximum charging current	160A			
System minimum discharge voltage	40.5V			
System standard discharge current	42A	63A	84A	105A
System normal discharge current	105A	157.5A	160A	160A
System maximum discharge current	160A			
System charging temperature range	0 ~ 45°C			
System discharge temperature range	-10°C ~ 45°C			
System storage temperature range	-20-45°C			
Relative Humidity	≤95% (Condensation-Free)			
Altitude	≤2000m			
Cooling Method	Natural Cooling			
IP Rating	IP 55			
Dimensions(WXDXH)	550X310X629mm	550X310X862mm	550X310X1095mm	550X310X1328mm
Weight	103kg	148kg	193kg	238kg
Certifications	CE、UN38.3			
Primary Application Scenarios	Household,Small C&I,Microgrid,Backup Power Supply.....			

Stackable Low-Voltage Residential Energy Storage SystemMETA H1

product superiority

High reliability

Self-developed BMS with multi-layer protection

Enhanced safety

LFP battery cells with cell-level monitoring and balancing



Scalable configuration

Scalable capacity from 5.32kWh up to 106.4kWh

Easy installation

Plug-and-play operation, no additional cabling required

High compatibility

Compatible with mainstream inverter brands on the market

APP-based monitoring

Supports real-time remote monitoring and system upgrades

Specification Name	META H1		
Battery type	LiFe po4		
System energy capacity	10.64kwh	15.96kwh	21.28kwh
System voltage	52Ah		
System capacity	204.8V	307.2V	409.6V
Control module model	HSC-10250HV		
Battery module model	H-S10250HV		
Number of battery modules	2	3	4
Battery module energy capacity	5.32kwh		
Battery module voltage	102.4V		
Battery module capacity	52Ah		
Communication Method	CAN/RS485 / wi-Fi/BLE		
System recommended charging voltage	217.6V 435.2V	326.4V	
System standard charging current		20.4A	
System normal charging current		51A	
System maximum charging current		102A	
System minimum discharge voltage	172.8V 345.6V	259.2V	
System standard discharge current		20.4A	
System normal discharge current		51A	
System maximum discharge current		102A	
System charging temperature range	0 ~ 45°C		
System discharge temperature range	-55°C		
System storage temperature range	-20-45°C		
Relative Humidity	≤95% (Condensation-Free)		
Altitude	≤2000m		
Cooling Method	Natural Cooling		
IP Rating	IP 55		
Dimensions(WXDXH)	600X155X1010mm	600X155X1385mm	600X155X1760mm
Weight	103kg	148kg	193kg
Certifications	CE、UN38.3		
Primary Application Scenarios	Household,Small C&I,Microgrid,Backup Power Supply.....		

All-in-One Residential Energy Storage System

product superiority

Safe and Reliable

- Self-developed BMS with multi-layer protection
- IP65 protection rating with built-in fire protection system and HVAC, offering strong environmental adaptability
- Real-time Data Monitoring & Lifecycle Logging

Highly Integrated Design

- Modular design enabling flexible power and capacity configuration within the same cabinet

Intelligent & User-Friendly

- Data visualization, big data analysis and report statistics

Flexible Application

- Supports PV connection, grid-tied/off-grid applications
- Suitable for various application scenarios

Charge/discharge rate up to 1C

Plug-and-play (includes all cables)

BMS automatic selection

Module-level automatic balancing

10-year warranty



Specification Name					
(AC)	Rated output power	10kw	12kw	15kw	20kw
	Rated voltage	3/N/PE,220/380Vac,230/400Vac			
	Rated frequency	50/60Hz			
	Output THDu	<3%			
	Rated output current	15A	18A	22.5A	30A
	Maximum efficiency	98.20%			
(PV)	Maximum input power	15kwp	18kwp	22.5kwp	30kwp
	Starting Voltage	200V			
	Maximum Input Voltage	1000V			
	MPPT voltage range	180-960V			
	Full-load MPPT voltage range	250-850V	290-850V	350-850V	450-850V
	Maximum input strings per MPPT	2			
	Number of MPPTs	2			
	Rated input voltage	600V			
Battery	Rated Voltage	409.6V	512V	614.4V	409.6V
	Rated Capacity	21.28kwh	26.6kwh	31.92kwh	42.56kwh
	Quantity of main controllers	1	1	1	2
	Battery series-parallel configuration	4S	5S	6S	4S2P
	Maximum Charge/Discharge Current	25A	25A	25A	50A
	Peak discharge current	35A	35A	35A	65A
Conventional Parameters	Supported battery input quantity	2			
	Altitude	≤2000m			
	Dimensions	1028X775X1900mm			
	Cooling Method	Natural Cooling			
	IP Rating	IP 65			
	Relative Temperature	0-50℃			
	Ambient Humidity	≤95% (Condensation-Free)			
	Cycle life	8000 Cycles			
	Communication method	RS485/CAN/Wi-Fi			
	Safety Certification	CE.UN38.3,IEC 62133			
	Grid Compliance Certification	VDE-AR-N 4105,C10-11,698/G99,CEI 0-21,EN50549, NRS097-2-1,AS4777.2,R25,UNE217001,UNE217002,NTS 2.1			

Integrated Hybrid On/Off-Grid Inverter Home Storage System

product superiority

Safe and Reliable

- Self-developed BMS with multi-layer protection
- IP65 protection rating with built-in fire protection system and HVAC, offering strong environmental adaptability
- Real-time Data Monitoring & Lifecycle Logging

Highly Integrated Design

- Modular design enabling flexible power and capacity configuration within the same cabinet



Flexible Application

- Supports PV connection, grid-tied/off-grid applications
- Suitable for various application scenarios

Charge/discharge rate up to 1C

Plug-and-play (includes all cables)

BMS automatic selection

Module-level automatic balancing

10-year warranty

Specification Name		
(AC)	Rated output power	6kw
	Rated voltage	220V/230V/240V
	Rated frequency	50/60HZ
	Output THDu	<2%
	Rated output current	27.2A
	Maximum efficiency	98.00%
(PV)	Maximum input power	9KW
	Starting Voltage	95V
	Maximum Input Voltage	600V
	MPPT voltage range	80-550V
	Full-load MPPT voltage range	350-500V
	Maximum input strings per MPPT	1
	Number of MPPTs	2
	Rated input voltage	360V
Battery	Rated Voltage	51.2V
	Rated Capacity	10.44kwh
	Maximum Charge/Discharge Current	160A
	Peak discharge current	200A@2 Minutes25℃
	Maximum Terminal Overcurrent Capability	200A
	Altitude	≤2000m
Conventional Parameters	Dimensions	620X1650X215mm
	Cooling Method	Natural Cooling
	IP Rating	IP 65
	Relative Temperature	0-50℃
	Ambient Humidity	≤95% (Condensation-Free)
	Cycle life	8000 Cycles
	Communication method	RS485/CAN/Wi-Fi
	Safety Certification	CE.UN38.3,IEC 62619
	Grid Compliance Certification	VDE-AR-N 4105,C10-11,698/G99,CEI 0-21,EN50549, NRS097-2-1,AS4777.2,R25,UNE217001,UNE217002,NTS 2.1

Portable Energy Storage SystemESBox 2000/3000/5000

product superiority

ALL-in-one

Integrated structure with built-in inverter, PV charger, BMS and battery

Enhanced safety

LFP battery with proprietary BMS technology, comprehensive protection to enhance system reliability



Specification Name	ESBOX 2000	ESBOX 3000	ESBOX 5000
Battery Type	LiFe po4		
SOC	2016wh	3024wh	5040wh
Battery Voltage	48V		
Battery Capacity	42Ah	63Ah	105Ah
USB Type-A Output	2X5V 2.4A/9V 2A/12V 1.5A(18W Max.		
TYPE C Output	20V 3.25A/15V 3A/12V 3A/9V 3A/5V 3A (65W Max.)		
DC 12V Output	3X12.5V/2.5A/31.25W		
Grid Input Voltage	220V~240V/50HZ		
Grid (Bypass) Output Voltage	Same as grid input		
Grid Output Power	2000W		3000W
Maximum Grid Charging Power	2000W		2700W
Inverter Output Waveform	Sine wave		
Inverter Output Voltage	230vac		
Inverter Output Frequency	50Hz or 60Hz		
Inverter Output Power	2200W/Peak: 4400W		3000w/Peak Power: 5400w
Inverter Harmonic Distortion	< 3% (Rated Input Voltage/Resistive 100% load)		
Solar Input Voltage	12V ~ 70V		
Solar Operating Mode	MPPT		
Maximum Solar Input Current	15A		
Maximum Solar Input Power	800W		
Charging Temperature Range	0~45℃		
Discharging Temperature Range	-20~45℃		
Storage Temperature	-20~45℃		
Relative Humidity	≤90% (Condensation-Free)		
Altitude	≤ 2000m		
Cooling Method	Fan cooling		
IP Rating	IP20		
Dimensions	446x275x493mm		
Weight	32kg	39kg	51kg
Certifications	CE、UN38.3		
Primary Application Scenarios	Household,Outdoor,Microgrid,Backup Power Supply		

Flexible and user-friendly

Fixed wheels and universal wheel design for quick mobility and secure positioning

UPS functionality

Automatic switch to battery inverter output during grid failure (transfer time ≤10ms)

Intelligent and convenient

USB and Type-C outputs with smart charging protocol support, compatible with large display

Multiple Configurations Available

Modular capacity design - 2kWh, 3kWh and 5kWh options available

Wall-mounted Residential Energy Storage System

product superiority

Specification Name	H-W51100
System Energy (kWh)	5.22
System Voltage (V)	51.2
System Capacity (Ah)	102
Battery Module Energy(kWh)	5.22
Battery Module Voltage (V)	51.2
Battery Module Capacity(Ah)	102
Communication Method	CAN, RS485 / Wi-Fi, BLE
Cooling Method	Natural Cooling
Dimensions (W×H×D)	442*450*145
Weight (kg)	48
Certifications	CE、UN38.3



Safe & Reliable



Smart O&M



Flexible Capacity Expansion



Portable Power Station PRIME 750



Safe & Reliable



Smart O&M



Flexible Capacity Expansion

- Supports both AC and DC (solar) input with AC outlets and USB outputs for simultaneous multi-device charging.
- Lightweight, compact design with silent operation.
- Professional shock-resistant construction ensures stable performance in harsh environments.

Battery	Project	PRIME 750
Battery	Battery Capacity	788Wh(11.1V71Ah)
	Grid Charging	12.6V7.5A/12.6V10A
Input	Solar Charging	12.5V~25V/Maximum Power Output: Up to 125W
	AC Outlet	2*AC Output
AC Output (Pure Sine Wave)	Rated Power	500W
	Peak Power	2500W
	Voltage/Frequency	220V/50Hz
DC Output	USB Output Port	1×5V1A1×5V2A1×5V2.4A(Fast Charging)
	Cigarette Lighter Socket	1×12V/60W(Maximum AC Output: 96W)
	DC Output Port	2×12V2.5A
LED Light	Multiple Operation Modes	High-Brightness(100%Luminance)Standard(50%Luminance)Energy-Saving(25%Luminance)Emergency SOS Flash
	Dimensions (L×W×H)	349×160×285mm
	Net Weight	7.5kg
	Operating Temperature	Discharge Temperature Range:-10~45℃ Charge Temperature Range:0~45℃
Comprehensive information	Certifications	RoHS、CE、FCC、RCM、PSE、CEC

product superiority



PRLR



PRHD



PRDP

Specification name	PRLR	PRHD	PRDP
Battery energy	600/1200/1800/2400		
Battery voltage	12		
Battery capacity	50/100/150/200		
Maximum output power	1 (Peak discharge rate up to 2C)		
Bluetooth	Support		
Certification	CE, UN38.3		



Safe & Reliable



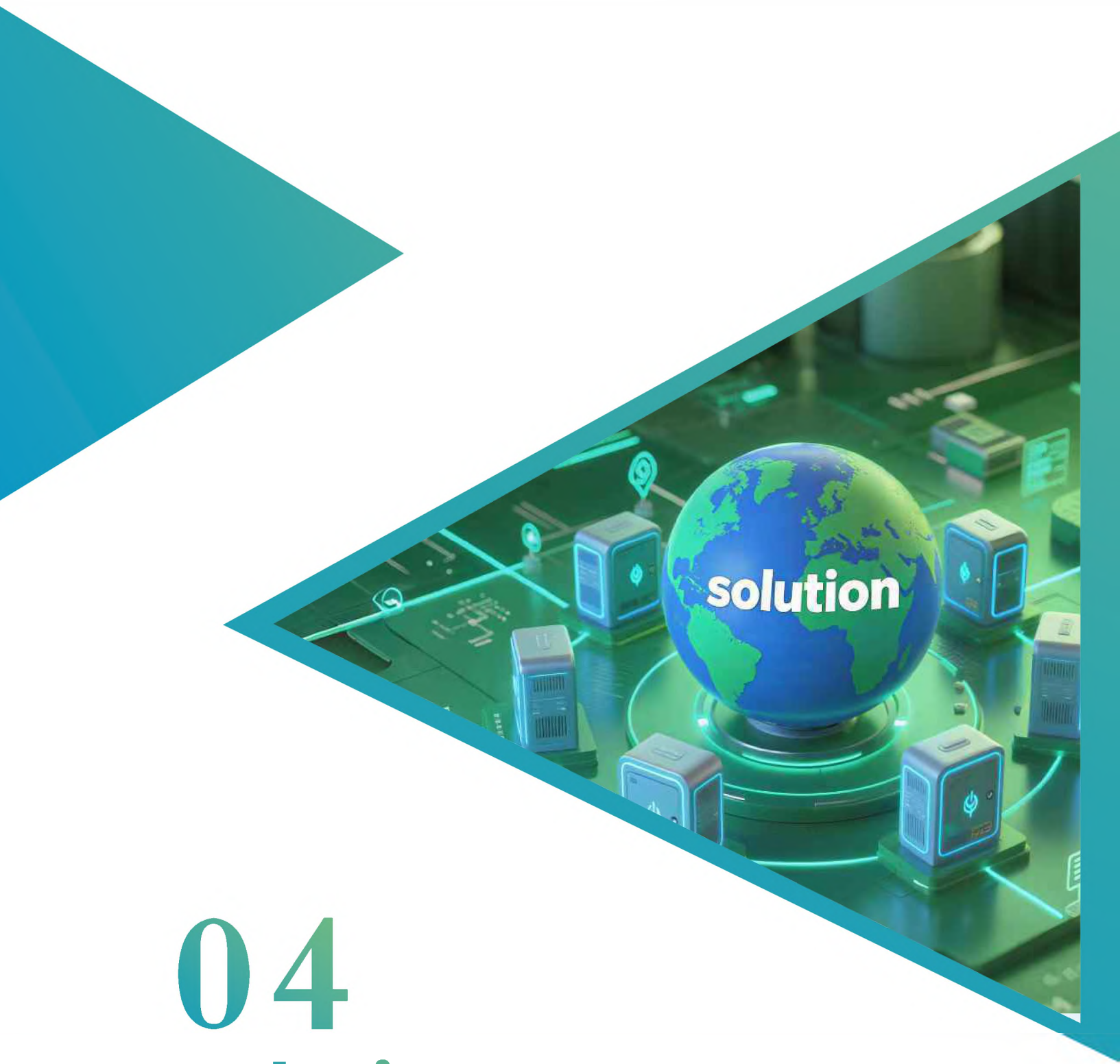
Smart O&M



Flexible Capacity Expansion

- LFP battery cells with high energy density and long cycle life.
 - Multiple capacity designs available.
 - Supports sleep mode functionality.
- Suitable for diverse applications including household, outdoor, microgrid, and backup power.
 - Direct replacement for lead-acid battery applications.

04
Solution

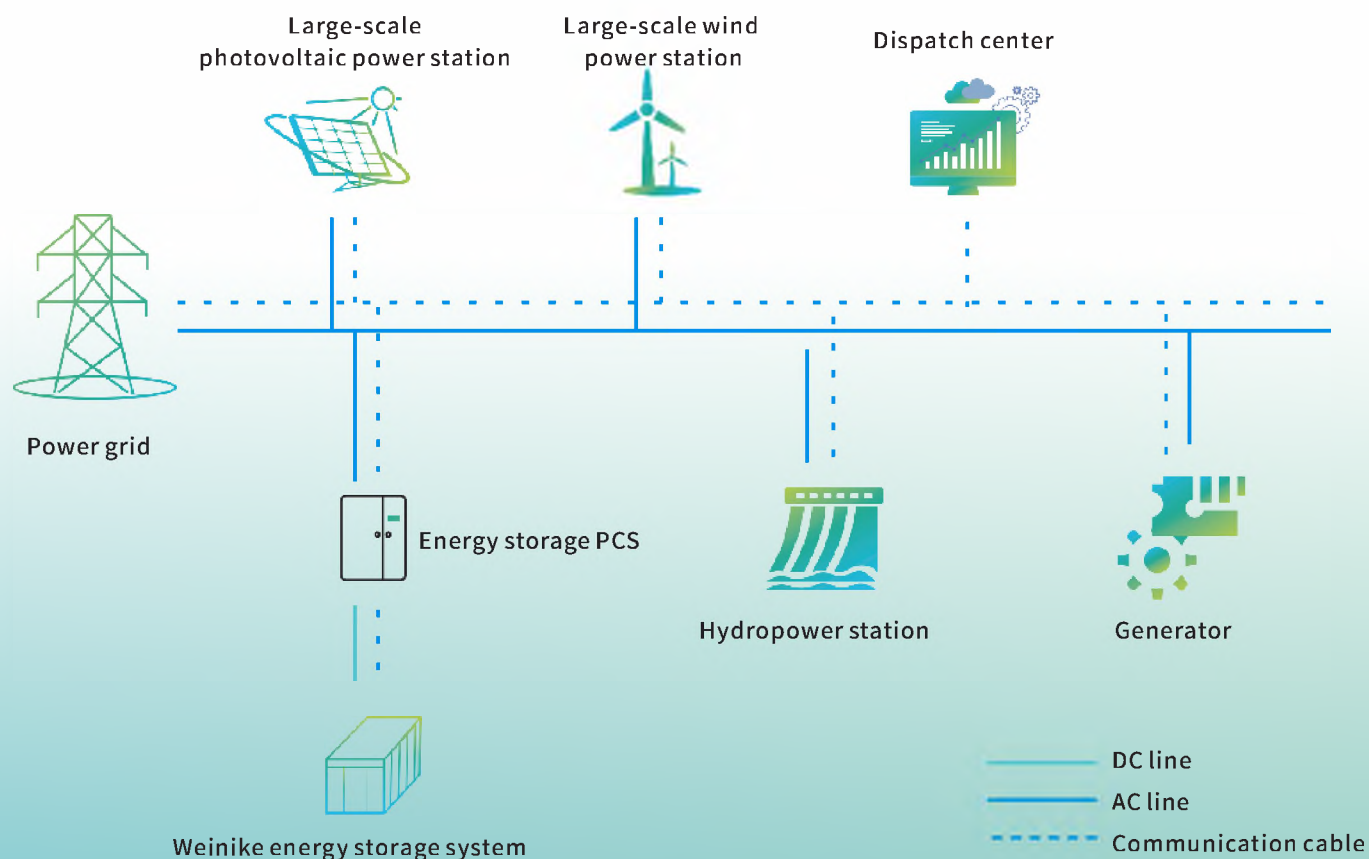


Multi-energy complementary energy storage solution

With the continuous advancement of new energy technologies, the proportion of renewable energy sources such as hydropower, solar, and wind power has been steadily increasing, transforming the traditional energy landscape that previously relied on conventional sources (coal, petroleum, natural gas, etc.). On the other hand, the large-scale utilization of new energy also presents numerous challenges. The Weinick multi-energy complementary energy storage solution can optimize resource allocation, efficiently promote high-level utilization of renewable energy, and create significant economic and social benefits.

>> Solution advantages

- Multi-energy complementarity enriches the energy infrastructure, facilitating higher penetration of renewable energy integration.
- Coupled with energy storage systems, it enhances power system stability, security, and economic performance.
- Optimal configuration improves grid dispatch planning capability and provides rapid source-grid-load coordination functionality.

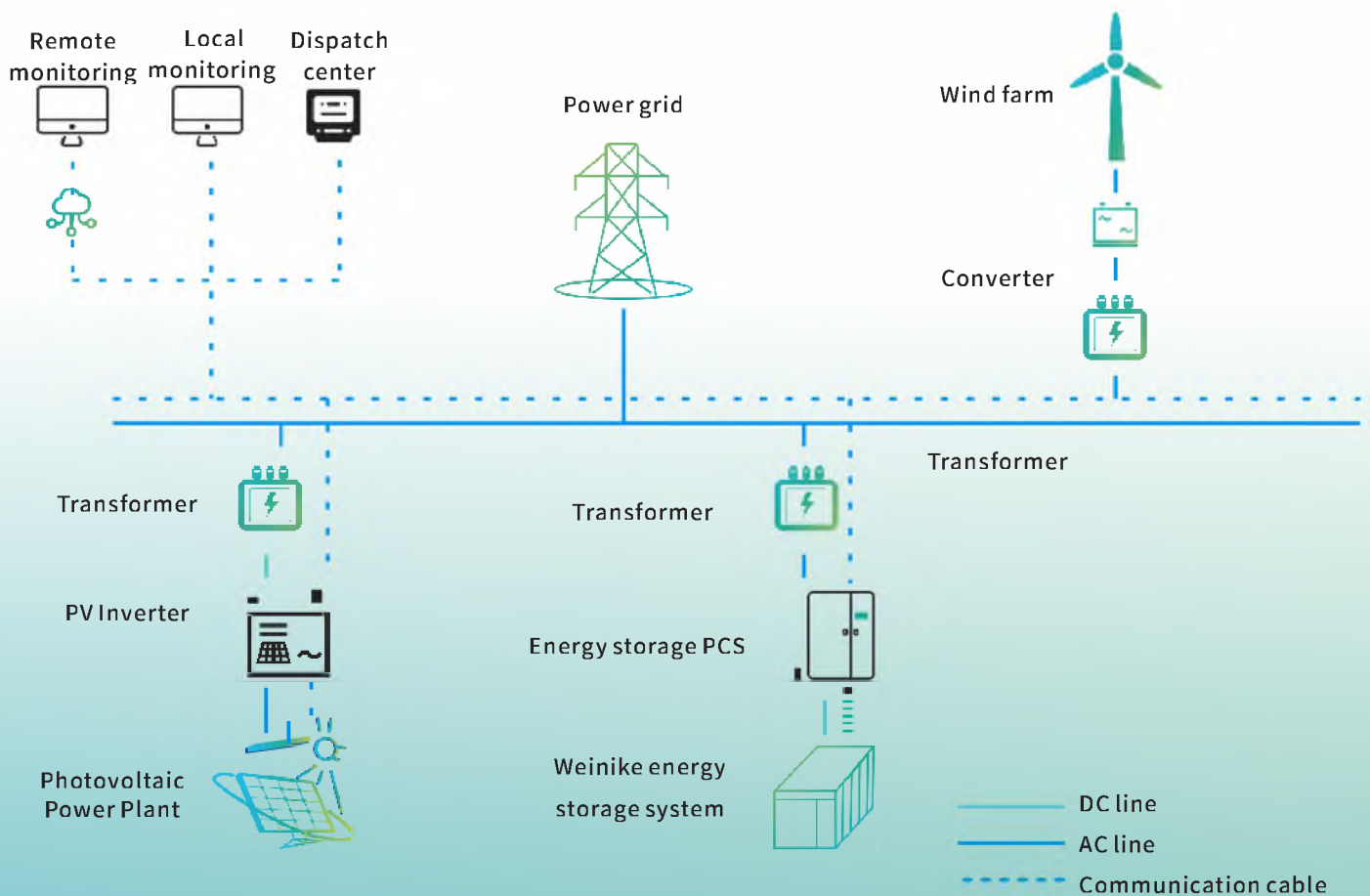


New Energy Storage Solution

Renewable energy sources such as photovoltaic and wind power exhibit characteristics of intermittency, volatility, and unpredictability. Their large-scale integration into power grids increases peak-shaving and frequency regulation demands, posing significant challenges to grid security. Energy storage systems effectively address these challenges by absorbing surplus solar and wind energy, mitigating renewable energy curtailment, while enhancing the smoothness and stability of renewable energy integration, thereby improving clean energy utilization rates.

» Solution advantages

- Enhance renewable energy utilization rate and dispatchability while reducing solar/wind curtailment
- Provide ancillary services including rotational inertia and peak-shaving/frequency regulation for renewable generation systems
- Mitigate renewable output volatility, smooth power delivery, and reduce grid impact from renewable sources

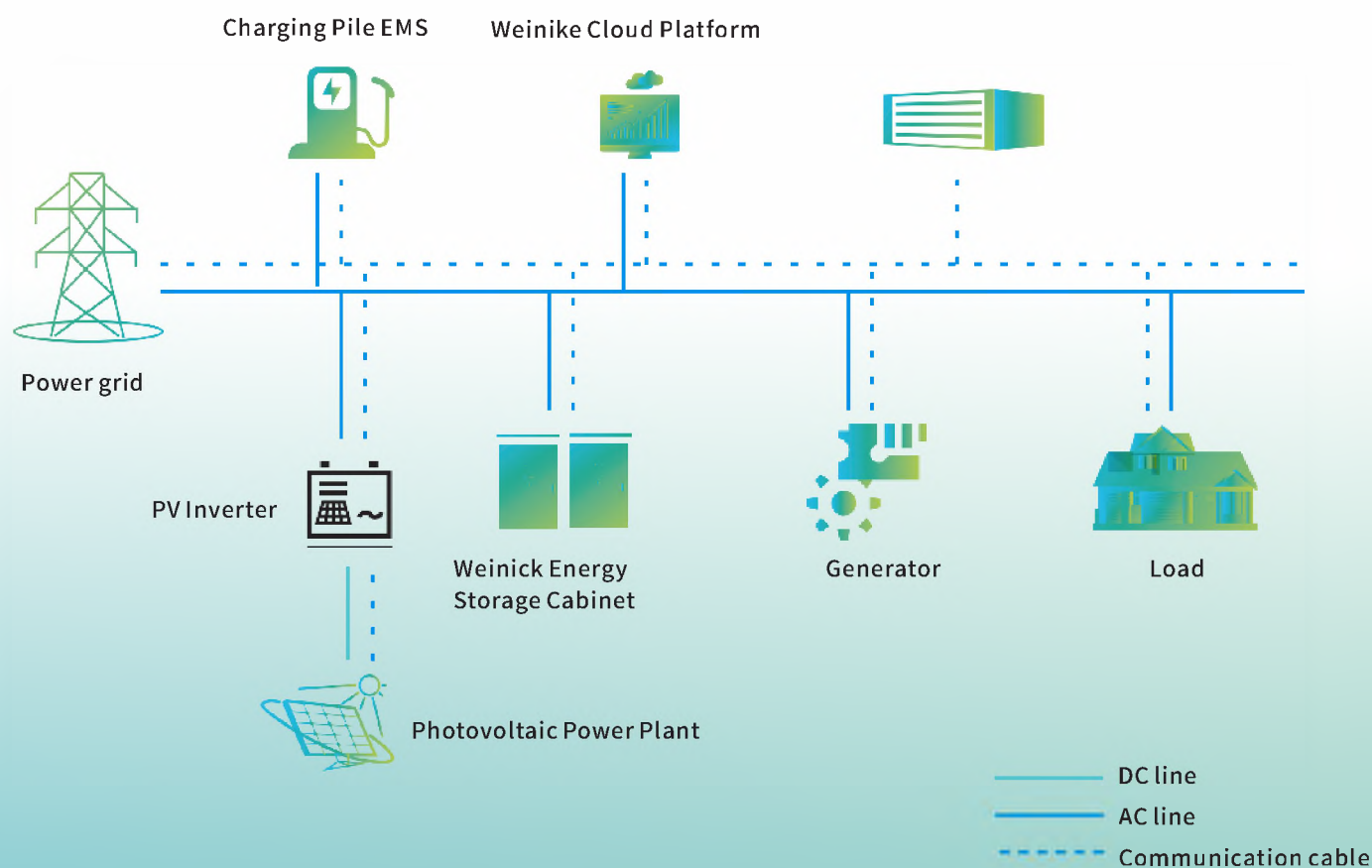


Commercial & Industrial Energy Storage Solution

The continuous expansion of commercial buildings and industrial parks has progressively widened the peak-valley load gap, elevating urban development's demand for high-quality, sustainable power supply. Within power systems, capacity conversion is often constrained by upstream distribution networks. Grid instability can cause production delays, while system redundancy similarly reduces power system efficiency and increases electricity costs.

>> Solution advantages

- Peak-valley arbitrage to reduce electricity costs
- Dynamic capacity expansion that lowers upgrade costs, covering only power line construction expenses
- Peak shaving and load valley filling to eliminate demand spikes and reduce maximum capacity requirements
- Emergency power supply during outages to maintain critical load operations

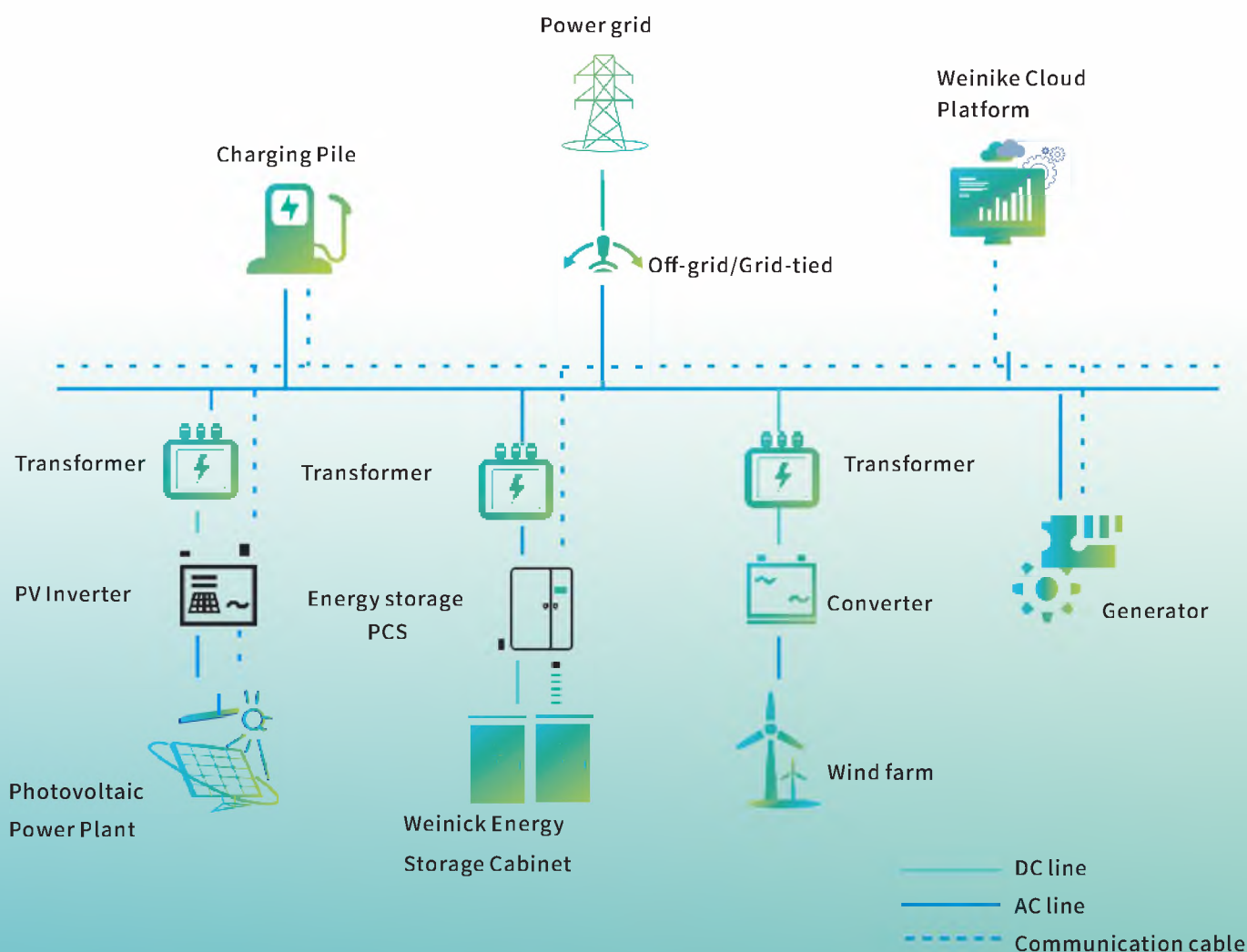


Microgrid Energy Storage Solution

In remote mountainous areas, islands, and other locations far from urban centers, there remain "power gaps" where grid access is unavailable or electricity supply is unstable. Due to the high cost of traditional grid power infrastructure, these areas typically utilize local renewable energy sources or deploy diesel generators combined with distributed photovoltaic systems. When integrated with energy storage systems, smart microgrids emerge as the most viable solution to address these regional power supply challenges.

>> Solution advantages

- In gridless areas, energy storage systems enable independent power supply to ensure stable load operation.
- Optimizes diesel generator operation by preventing no-load losses, reducing generation costs.
- Facilitates renewable energy grid integration and improves utilization rate.



05
Global Project
Cases



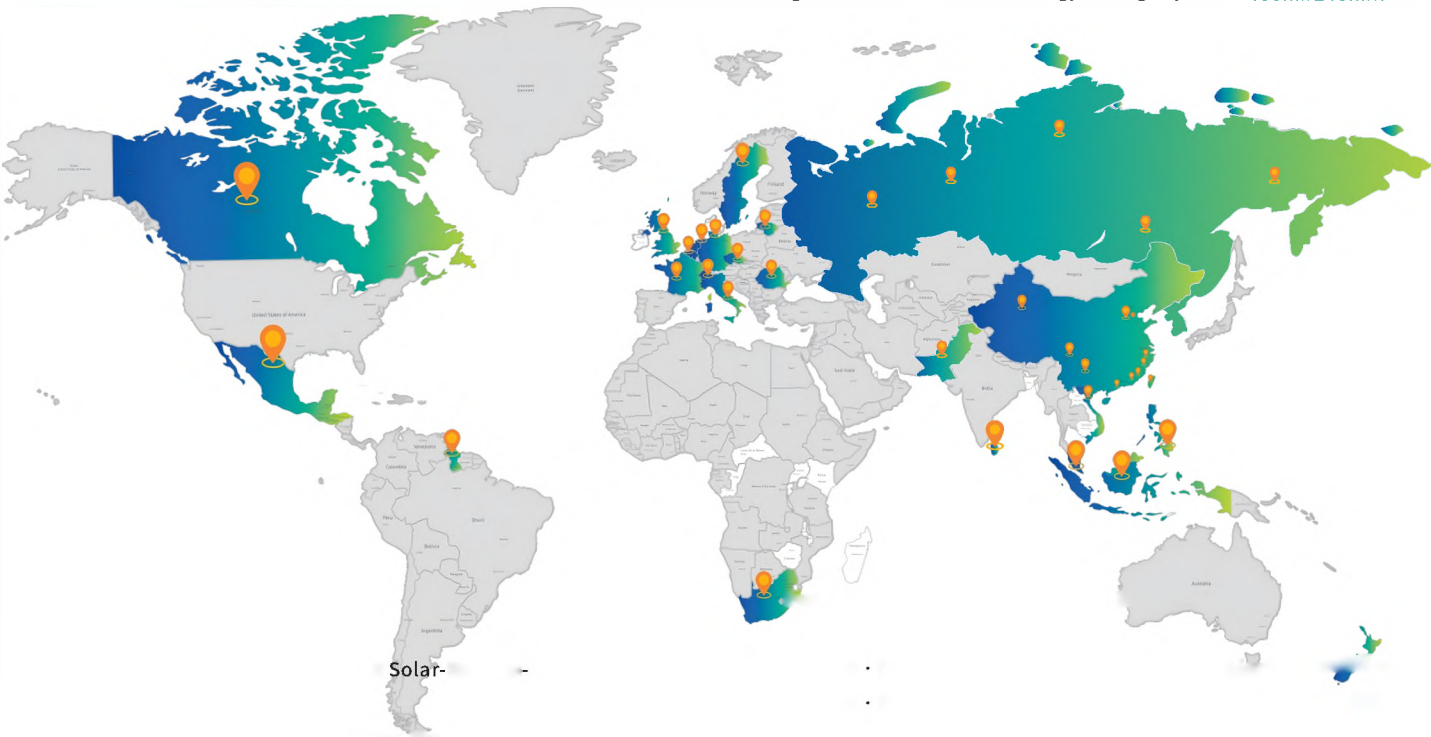
Weinike Global Application Cases

Rooted in China, Serving Globally

As of year-end 2024, cumulative delivery of 800MWh energy storage projects across key domestic and international markets.

Mount Everest Energy Storage Project	559.1kwh
Guyana PV-Storage-Diesel Microgrid Project	1mw/3.2mwh
Sweden C&I Frequency Regulation Project	187.5kw/430kwh
Indonesia Port Shore-Power PV-Storage Project	50kw/215kwh

Netherlands · Carbon-Neutral Equestrian Center PV-Storage Project	62.5kw/215kwh
Netherlands · Large-Scale Camping Equipment Warehouse PV-Storage Project	1mw/2.15mwh
Netherlands · Jam Factory PV-Storage Project	250kw/645wh
Mexico · Electrical Equipment Manufacturing Plant PV-Storage Project	187.5kw/648kwh
Netherlands · Sports Park PV-Storage Project	62.5kw/215kwh
Vietnam · Photovoltaic Energy Storage System for Engine Lubricant Manufacturing Plant	100kw/215kwh
Netherlands · Livestock Farm Solar-Plus-Storage Installation	62.5kw/215kw
Sweden · Rural Church and Residential Solar -Plus-Storage Solution	125kw/215kw
Belgium · Industrial Plant Energy Storage System	100kw/215kwh



Charging Project	
Sweden · All-in-One Solar-Storage-Charging Station with Grid Frequency Regulation Capability	500kw/1075kwh
Germany · Electric Vehicle Solar-Storage-Charging Project	92kw/215kwh
Romania · Integrated Emergency Backup Power and EV Solar-Storage-Charging Project	100kw/215kwh
Guilin, Guangxi · Electric Bus Solar-Storage-Charging Project	500kw/996kwh
Sichuan · CNPC EV Solar-Storage-Charging Project	100kw/215kwh
Xinjiang · Electric Vehicle Solar-Storage-Charging Project	100kw/215kwh
Yiwu, Zhejiang · Commercial Center Solar-Storage-Charging Project	250kw/215kwh
Czech Republic · Integrated Generation-Grid-Load-Storage Photovoltaic Project	500kw/860kwh
Shanghang, Fujian · Daguangming Generation-Grid-Load-Storage Integrated Project	2.5mw/5.117mwh

Farm	
Italy · Island Shore Photovoltaic-Storage-Diesel Microgrid Project	1mw/1.4mwh
France · Island Shore Photovoltaic-Storage-Diesel Microgrid Project	375kw/688kwh
Xiamen · Energy Storage and Backup Power Project for Power Plants	500kw/1129kwh
Netherlands · Backup Power Storage System for Steel Manufacturing Plant	500kw/860kwh
Belgium · Chocolate Factory Energy Storage Backup Solution	350kw/748kwh
Sweden · Commercial Energy Storage System Providing Grid Frequency Regulation Services	87.5kw/430kwh
Netherlands · Backup Power Storage System for Catering Company	125kw/215kwh

Typical Project Deployment Cases

Extreme Environment Application Cases

>> Mount Everest Energy Storage Project

Scale: Installed capacity of 559.1kWh

The system's key advantage lies in its minimal adaptation from Weinike's standard energy storage cabinet configuration to achieve reliable operation at Everest Base Camp's extreme 5200-meter altitude, demonstrating robust performance under harsh environmental conditions including sub-zero temperatures, oxygen deficiency, gale-force winds, and intense solar radiation while maintaining high efficiency and operational stability..



>> Guyana PV-Storage-Diesel Microgrid Project

Scale: The energy storage system features a 1MW power output with 2.15MWh capacity

Technical Highlights: Engineered for Guyana's equatorial low-pressure zone, the solution demonstrates exceptional climate adaptability in rainforest environments with sustained 90% relative humidity and extreme temperatures. By stabilizing unreliable photovoltaic power supply for mining operations, it effectively replaces diesel generators - eliminating their high operational costs, significant pollution, and excessive noise. This transition delivers substantial economic returns while simultaneously improving local living conditions and enhancing environmental sustainability through clean energy integration.



>> Sweden C&I Frequency Regulation Project

Scale: The energy storage system is configured with 187.5kW power output and 430kWh storage capacity

Technical Advantages: Operational at -40°C, this solution participates in local grid's peak shaving and frequency regulation services. Specifically engineered for extreme Arctic conditions in Swedish mountainous regions, it delivers effective demand-side management to reduce electricity costs while generating additional revenue streams



>> Indonesia Port Shore-Power PV-Storage Project

System Capacity: The energy storage system is configured with 50kW power output and 215kWh storage capacity

Technical Advantages: The system demonstrates long-term operational stability in extreme tropical marine conditions characterized by high temperatures, elevated humidity levels, and salt spray corrosion. By optimizing photovoltaic self-consumption for port lighting applications, it significantly reduces grid dependency and operational electricity costs. The environmentally-friendly design ensures zero pollutant emissions, effectively preserving fragile island ecosystems while delivering reliable power supply for critical port operations.



Netherlands · Logistics Fleet Integrated Solar-Storage-Charging Project Scale:1.5MW / 3.2MWh



Sweden · All-in-One Solar-Storage-Charging Station with Grid Frequency Regulation Capability Scale:500kW / 1075kWh



Guilin, Guangxi · Electric Bus Solar-Storage-Charging Project Scale:500kW / 996kWh



Romania · Integrated Emergency Backup Power and EV Solar-Storage-Charging Project Scale:100kW / 215kWh



Germany · Electric Vehicle Solar-Storage-Charging Project Scale:92kW / 215kWh

Global Project Deployment - PV-Storage Projects



Sichuan · CNPC EV Solar-Storage-Charging Project Scale:100kW / 215kWh



Xinjiang · Electric Vehicle Solar-Storage-Charging Project Scale:100kW / 215kWh



Netherlands · Metal Recycling Plant Solar-Storage-Charging Project Scale:62.5kW / 215kWh



Yiwu, Zhejiang · Commercial Center Solar-Storage-Charging Project Scale:250kW / 215kWh



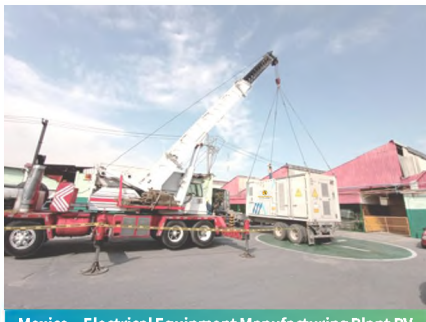
Netherlands · Carbon-Neutral Equestrian Center PV-Storage Project Scale:62.5kW / 215kWh



Netherlands · Large-Scale Camping Equipment Warehouse PV-Storage Project Scale:1MW / 2.15MWh



Netherlands · Jam Factory PV-Storage Project Scale:250kW / 645kWh



Mexico · Electrical Equipment Manufacturing Plant PV-Storage Project Netherlands · Sports Park PV-Storage Project Scale:187.5kW / 648kWh



Vietnam · Photovoltaic Energy Storage System for Engine Lubricant Manufacturing Plant Scale:100kW / 215kWh



Netherlands · Livestock Farm Solar-Plus-Storage Installation Scale:62.5kW / 215kWh



Sweden · Rural Church and Residential Solar-Plus-Storage Solution Scale:125kW / 215kWh



Belgium · Industrial Plant Energy Storage System Scale:100kW / 215kWh

Global Project Deployment

Supplementary Project



Sweden · Electric Bus Storage-Charging Project Scale:250kW / 860kWh

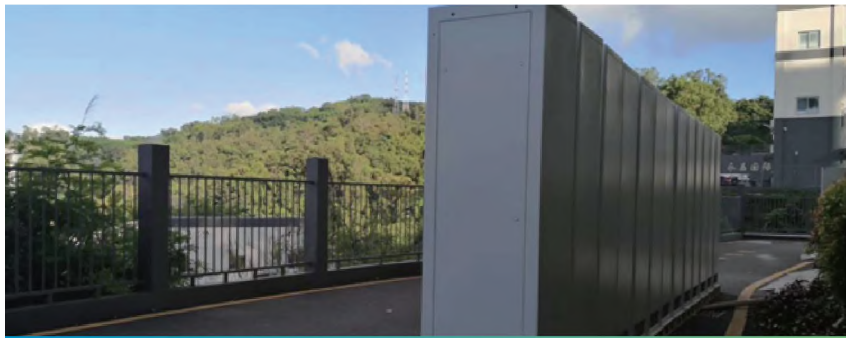


Sweden · Electric Vehicle Storage-Charging Project Scale:360kW / 633.6kWh



Sweden · Smart Storage-Charging Solution for Workplace EV Charging Scale:500kW / 504kWh

Microgrid Project



Italy · Island Shore Photovoltaic-Storage-Diesel Microgrid Project Scale:1MW / 1.4MWh



New Zealand · Solar Microgrid Project for Dairy Farm Scale:60kW / 122.88kWh

Global Project Deployment

Independent Energy Storage Project



Xiamen · Energy Storage and Backup Power Project for Power Plants Scale:500kW / 1129kWh



Belgium · Chocolate Factory Energy Storage Backup Solution Scale:350kW / 748kWh



Sweden · Commercial Energy Storage System Providing Grid Frequency Regulation Services Scale:187.5kW / 430kWh



Netherlands · Backup Power Storage System for Catering Company Scale:125kW / 215kWh



Netherlands · Backup Power Storage System for Steel Manufacturing Plant Scale:500kW / 860kWh

>> Generation-Grid-Load-Storage Integrated Project



Global Sales Network

