



Smart Storage, Safe Power, Sustainable Future

- One-stop Energy Solutions
- Global Agility for Swift Deployment
- Zero Incidents Record

Catalogue



About Wenergy

Wenergy Technologies

Wenergy Solutions

Wenergy Products

Application Cases

About Wenergy

Empowering Every Link in Clean Energy

Explore how Wenergy integrates materials, innovation, and global service to redefine energy storage.

Company Overview

Manufacturing Footprint & Global Reach



Wenergy Technologies Pte Ltd (Global)



R&D production bases: Xiangtan | Changsha | Yiyang in Hunan, China

1 Headquarter
in Singapore

14Years Battery Cell
Manufacturing

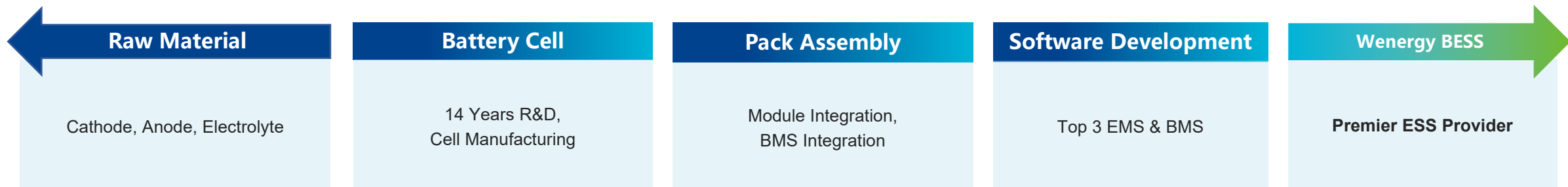
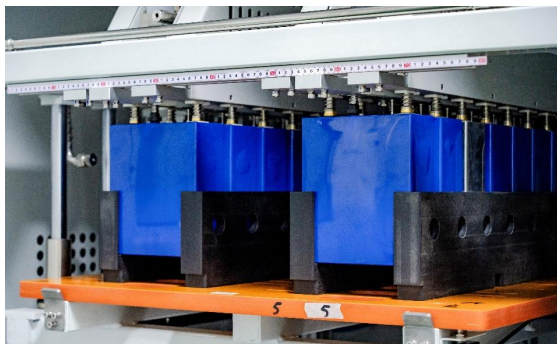
15GWh Annual
Capacity

5 Global Branches
(China, USA, Germany, Italy, Chile)

660, 000+m² R&D and
Production Base

Vertically Integrated ESS Mastery

From Cathode Materials and Battery Cells to Modules and Smart ESS Solutions



R&D Team

Core Technology Domains

- Cathode and Anode Materials
- Electrolyte and Separator Materials
- Cell Structure Design
- BMS and Battery Pack Technology

R&D Focus

- Focus on the development of High-performance NCM and NCA cathode materials, energy storage batteries and solid-state batteries.

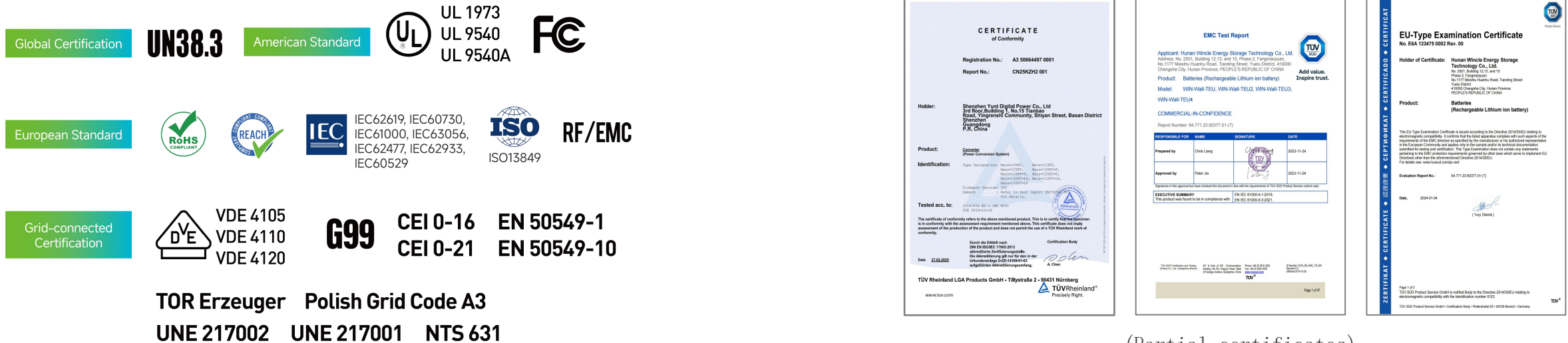
740+ Project Footprint

180+ Invention Authorization

490+ Patent application for invention

1+ Present Emeritus





Global Reach

Products are sold to

6 continents / **60** countries & regions around the world

Total Scale: **2**GWh+ (excluding cell sales)



20+

Industries Served with Tailored Solutions

Cement Industry, Industrial Manufacturing, Textile Industry, Electronic Industry, Environmental Protection Industry, Paper and Printing Industry, Data Centers...

End-to-End Service & Support

Pre-Sales

Consultation & Needs Assessment
Customized Solution Design & Financing Models

During Project

On-Site Assistance
Project Management

Premium After-Sales Service

Installation & Training

Flexible remote support and online guidance
On-site commissioning and system optimization
Hands-on operational training

Scheduled Maintenance

Scheduled system inspections
Proactive component servicing

Fault Resolution

Rapid fault diagnosis and repair
OEM-certified replacement parts

Parts Supply

Local inventory for fast delivery
Hardware upgrade options

Global Warehousing

China, Netherlands, South Africa

Customer – Partner Synergy

Feedback Mechanism & Strategic Customer Collaborations

Listen

After-sales support
Email feedback
Online surveys

Respond

Dedicated service team
Categorized issue handling

Improve

Targeted solutions
Process optimization

Measure

Regular CSAT surveys
Service strategy adjustment

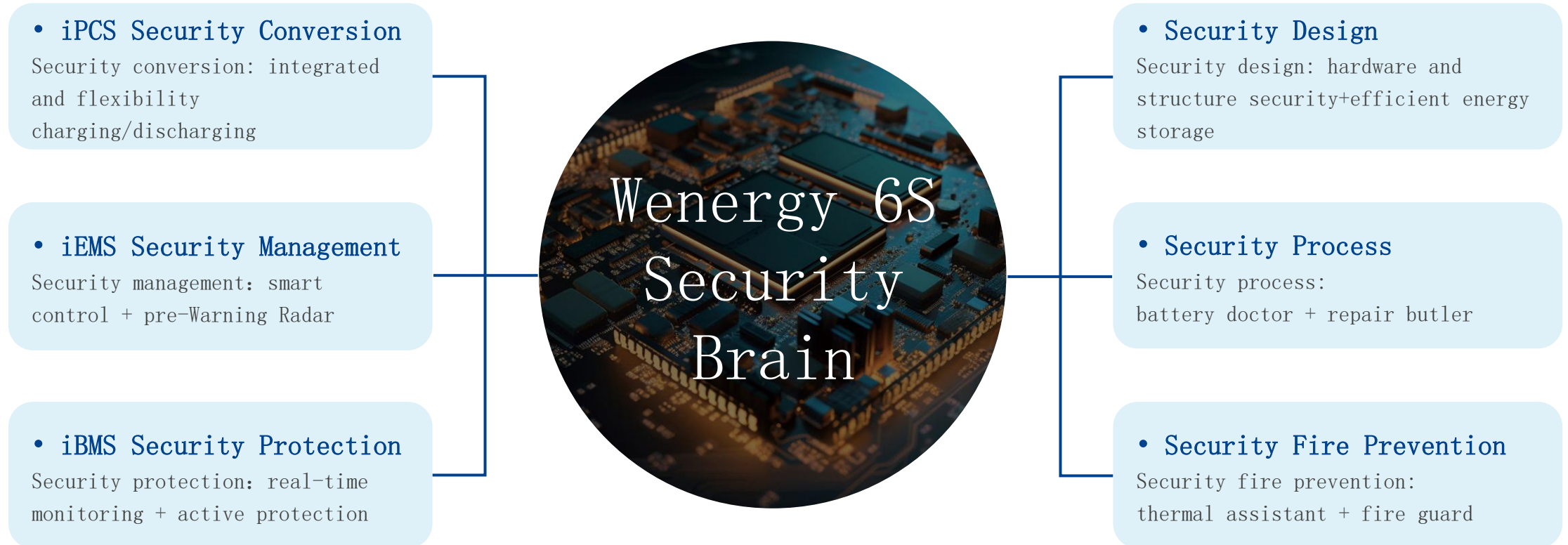


Wenergy Technologies

Safety First, Zero Incidents

Whole supply chain management | Professional intelligent control | Full safety guarantee

Comprehensive Security Solution



Comprehensive Security Solution

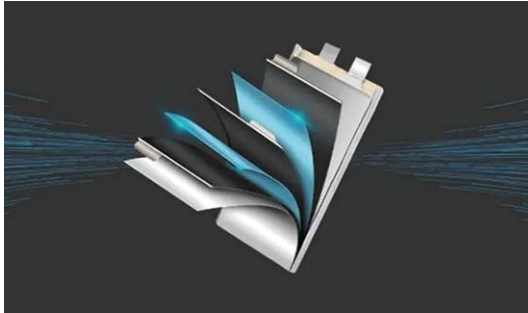
Design	Security system, multi-layer protection, fire protection
Materials	LFP material with safe and stable performance
Cabinet	3 level security structure from system to pack to battery
BMS	Real-time monitoring, active protection
Battery	Mature technology, MES production, fully testing

PCS	Security conversion, integrated and flexibility charging/discharging
PACK	Safety module, safety material, insulation warning
Fire Protection	Thermal control assistant fire guard
EMS	Security management, smart control + pre-warning radar
Operation	Remote operation and maintenance for troubleshooting

Full Chain Production 10 Keypoints to Ensure Safety

Advanced Hardware Capabilities

High Energy Density LFP Material High Safety Battery



- **High Energy Density:**

Material pole pieces compacted density up to 2.75g/cc

- **High Capacity:**

Gram capacity exceeds 145mAh/g

- **Long Cycle Life:**

Cycle life exceeds 10,000 cycles



- **High Energy Density:**

>170 Wh/kg energy density,
>96% energy efficiency

- **Long Cycle Life:**

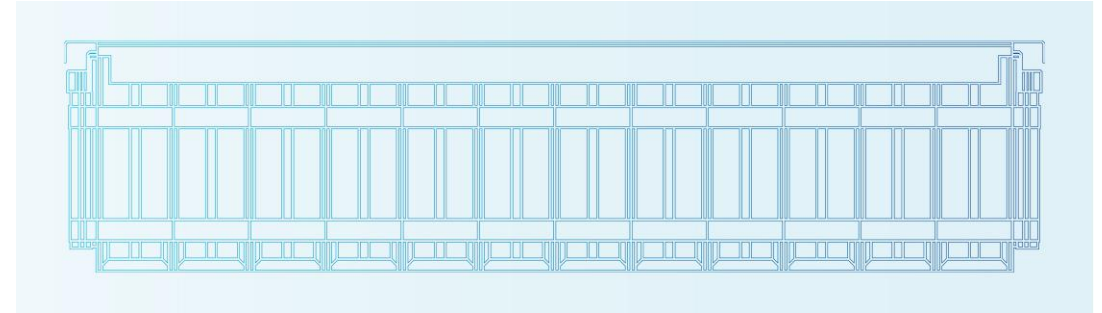
10,000 cycles & 0.5P & 70%

- **High Quality and Safety:**

Three-level safety design to prevent fire throughout the product life cycle

High-Safety Battery PACK Technology

Self-developed and produced battery, Advanced battery integration technology



- **High Integration:**

Topology optimization and structural innovation improve pack efficiency to 70%+

- **New Material Application:**

Lightweight materials, low-density composites (e.g., carbon fiber) and high-strength metals

- **High Safety:**

Protection rating: IP67

- **Advanced Manufacturing Technology:**

Large-scale aluminum alloy die-casting, advanced joining techniques, and surface enhancement treatments

- **Thermal Management:**

Optimized structural and system-level design with high-temperature resistance

Software Intelligence

iBMS Intelligent Battery Management System

Information collection | Security management | State estimation |
Charge and discharge management | Balance management

Robust Hardware & Real-Time Optimization

Dual-processor architecture ensures **high reliability and fault tolerance**.
Cloud-driven **real-time balancing** maximizes battery performance and lifespan.

Comprehensive Safety Features

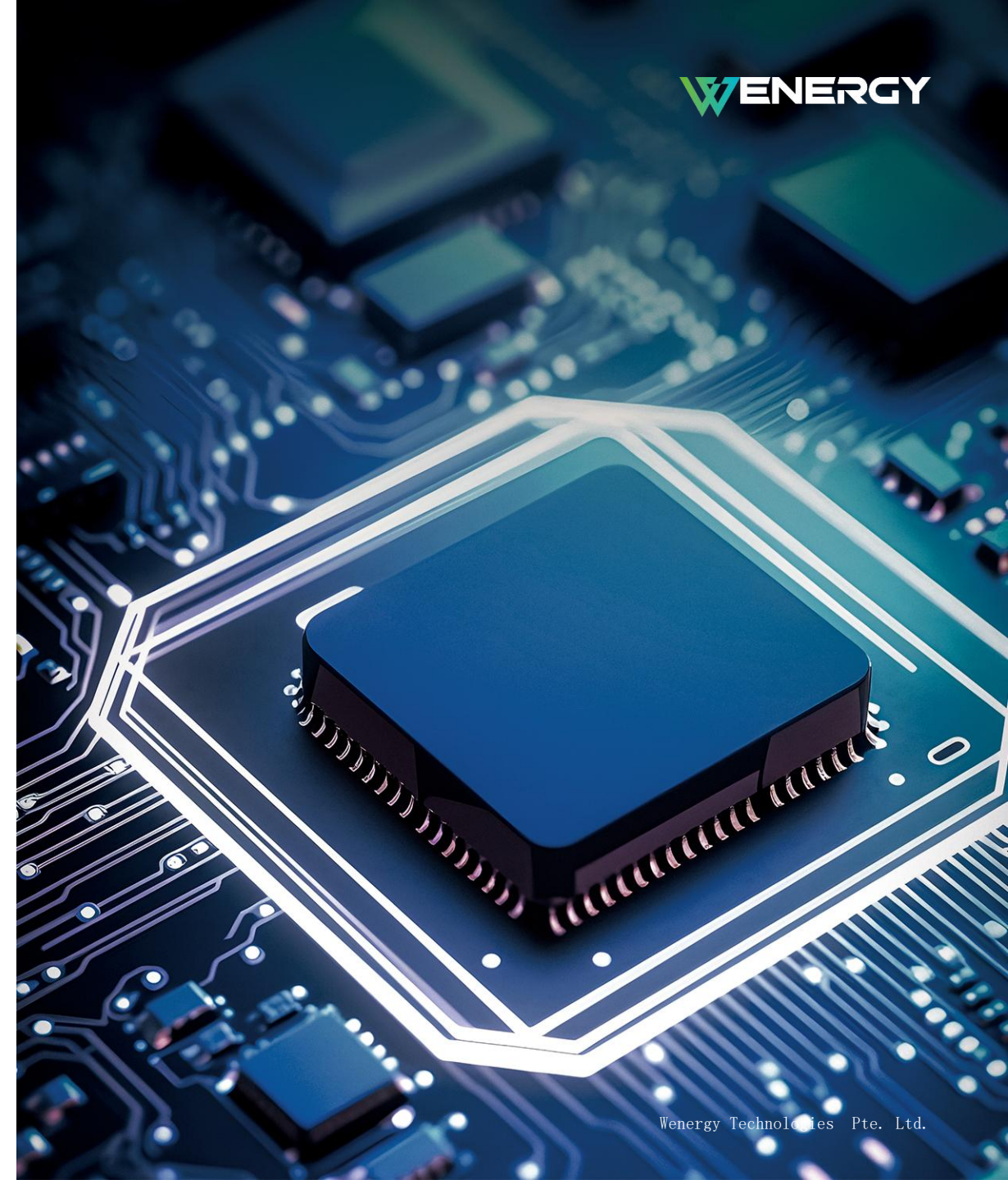
90%+ diagnostic coverage with 4KHz sampling detects anomalies instantly.
Surge protection provides **electrical hazard safeguard**.

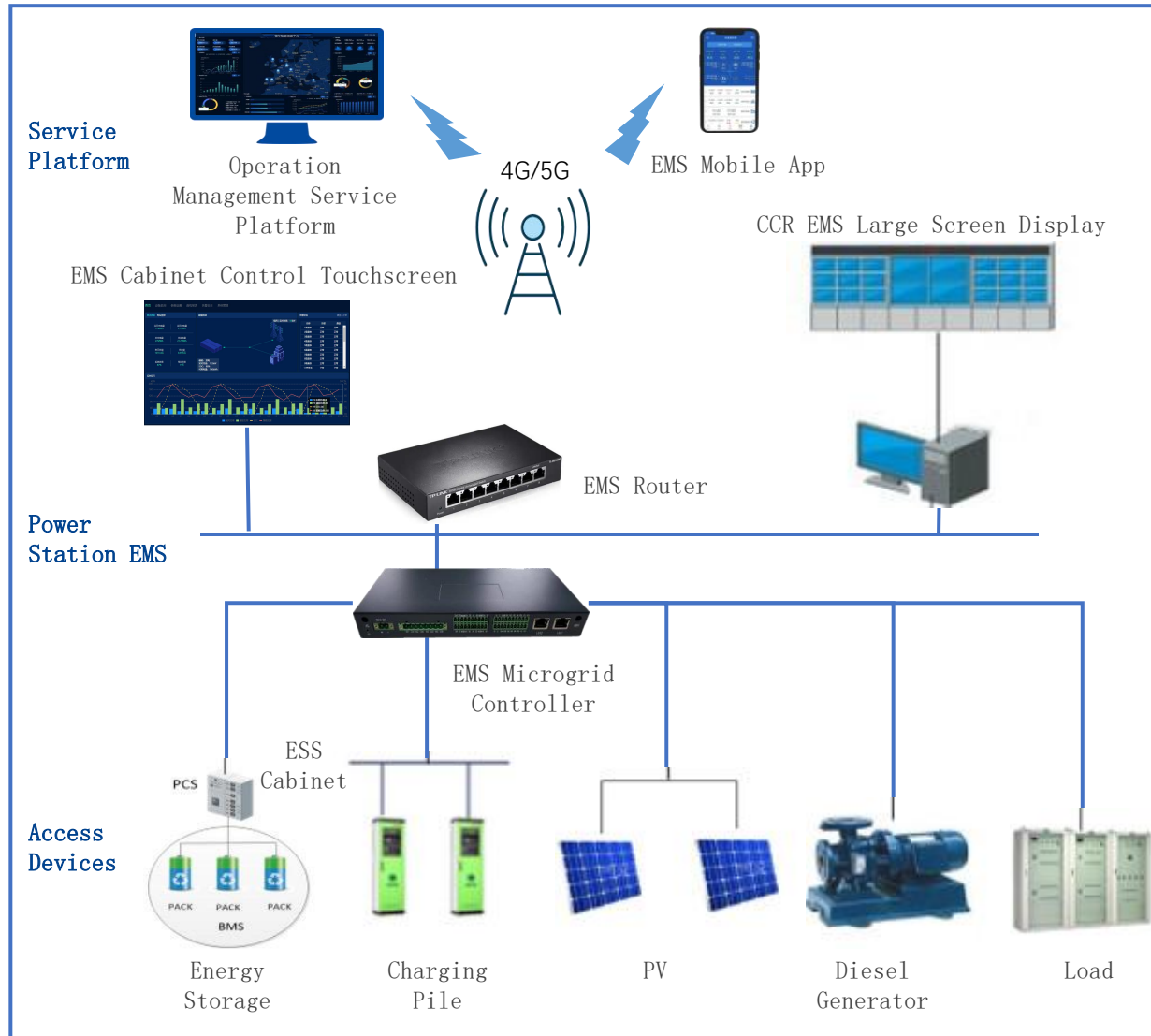
Seamless Integration & Scalability

Effortless **iEMS integration** enables peak shaving, grid compliance, and demand response.
Multi-cluster operation offers scalable, flexible energy solutions.
Compatible with P72, M76, P75, and M77 series devices.

Advanced Data Capabilities

180-day expandable local storage supports in-depth historical analysis.
Multi-mode operation adapts to diverse scenarios via **pre-configured mainstream protocols** for easy integration.





iEMS Intelligent Control & Profit Boost

Global Delivery | Self-Developed Core Tech | Quick Deployment

Integrated System Connectivity

Directly integrates with customer-owned EMS systems, and utilizes over 100 protocols for seamless device integration, enabling rapid setup across grid-tied, off-grid, and hybrid setups.

AI-Powered Trading & Optimization

Localized real-time price capture drives automated trading, while AI forecasts solar output, load demand, and prices for optimal scheduling. Smart dispatch coordinates multi-energy systems, enhancing efficiency and preventing backflow.

Ultra-Fast Edge Control & Resilience

With millisecond response for real-time data collection and control, edge computing ensures local, reliable energy management. The robust design guarantees stable operation in extreme conditions, with high electrical isolation and voltage resistance for secure operations.

Cost & Profit Maximization

Dynamic tariff management, revenue sharing, and strategies like peak shaving, load shifting, and demand response significantly reduce costs and boost profits.

Software Intelligence

Smart platform

- **Real-time Monitoring**

Multiple filters,
real time monitoring.

- **Inquiry statistics**

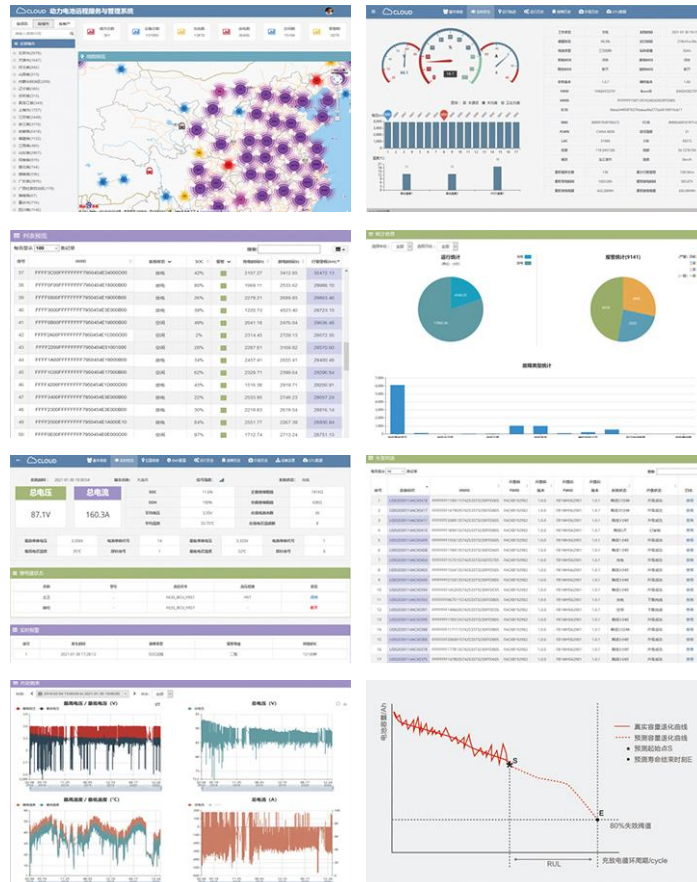
Records of alarm and
charge discharge

- **Remote management**

Remote upgrade and
diagnosis.

- **Data services**

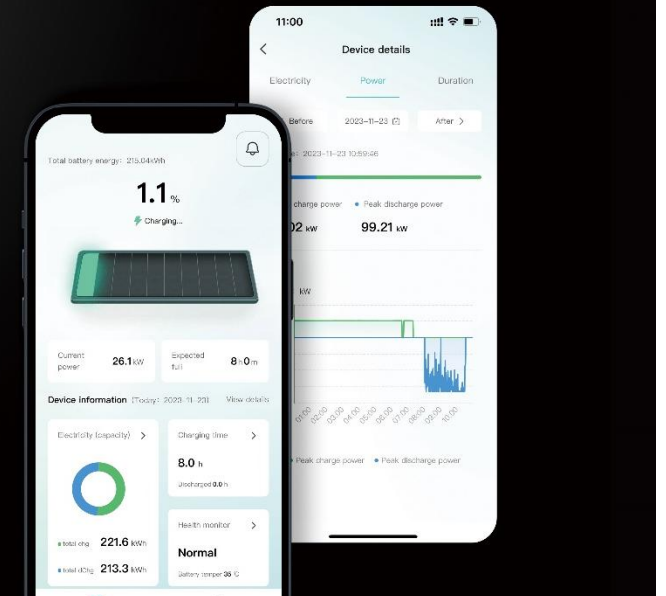
Health and lifes
assessment.



Smart APP

• For ESS users, it provides functions such as power generation data viewing, real-time status monitoring, and operation and maintenance management.

- User Login;
- Battery Pack Division into Areas/Groups;
- Battery Pack Pre-Warning and Real-Time Status Monitoring;
- Charge and Discharge Data Statistics;
- Android/iOS Dual Version;
- Support for Personalized Customization.





Wenergy Solutions

- **PV+Storage Integration**

Store excess solar energy for use during non-generating hours, ensuring a continuous and reliable power supply. Ideal for maximizing solar energy utilization.

- **Frequency Regulation**

Utilizes energy storage's fast response to correct grid frequency fluctuations. Ensures grid stability and reliability by quickly adjusting power output.

- **Backup Power Supply**

Ensure uninterrupted power during outages with our robust backup solutions. Essential for critical infrastructure and emergency power needs.

- **Peak-Valley Arbitrage**

Optimize energy costs by storing electricity during low-rate periods and using it during high-rate times. Great for reducing energy expenses and managing consumption.

Application Scenarios

Industrial Use
Commercial Use
Remote Area Use

Key Functions

Seamless Integration

PCS MV Skid and MPPT Inverter enable seamless connection of all energy sources, ensuring smooth interaction.

Multi-source Coexistence

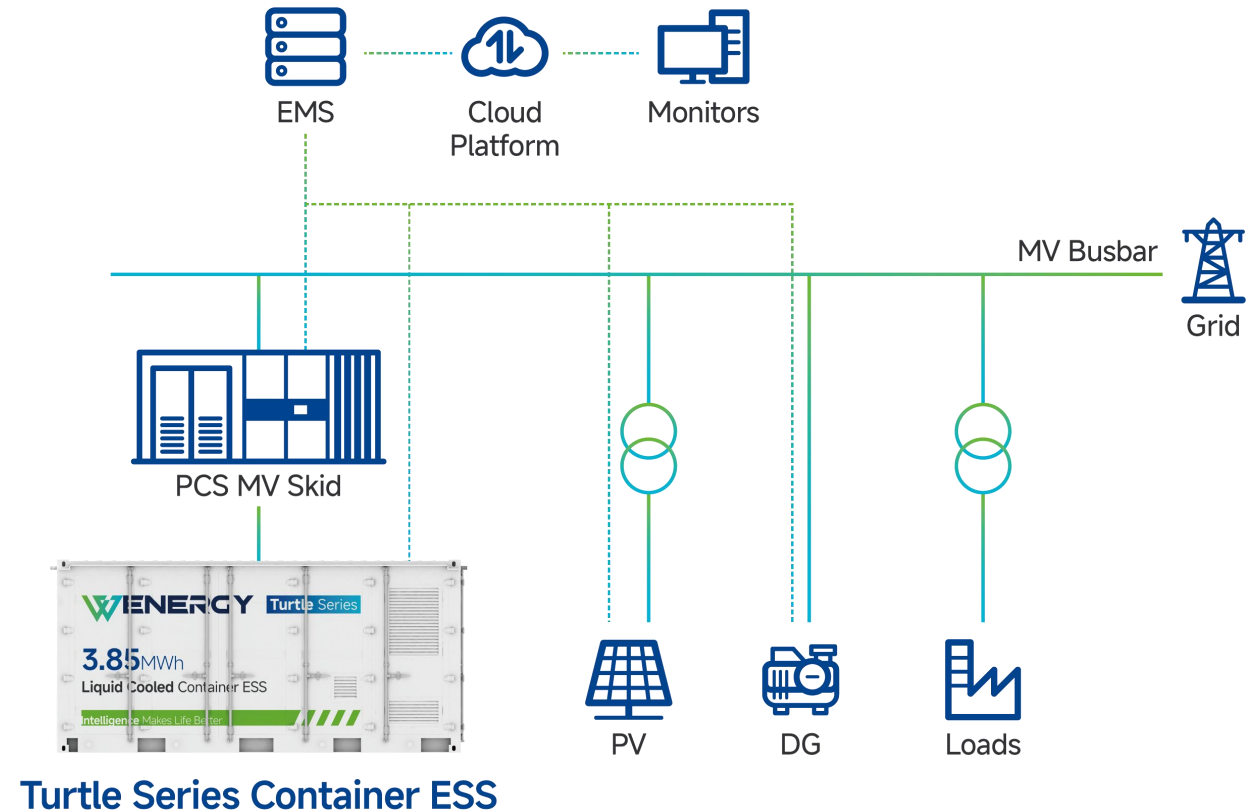
The system allows multiple AC power sources (PV, DG, grid) to coexist, providing stable power.

Mode Switching

It automatically switches between diesel - backup and off-grid PV - ESS power. Diesel gensets take over during outages or PV shortages for continuous supply.

Efficiency Optimization

Designed to minimize losses and maximize efficiency, the system uses intelligent load management and dynamic power distribution for optimal component operation.



Application Scenarios

Industrial & Commercial Use

Residential Micro-grid Use

Remote or Off-grid Area Use for Renewable Energy Storage

EV Charging Station Use

Key Functions

All-in-One Integration

The energy storage system integrates the battery, liquid-cooling, fire-fighting, and AC charging pile PV converter, simplifying installation and operation.

Power Generation Tracking

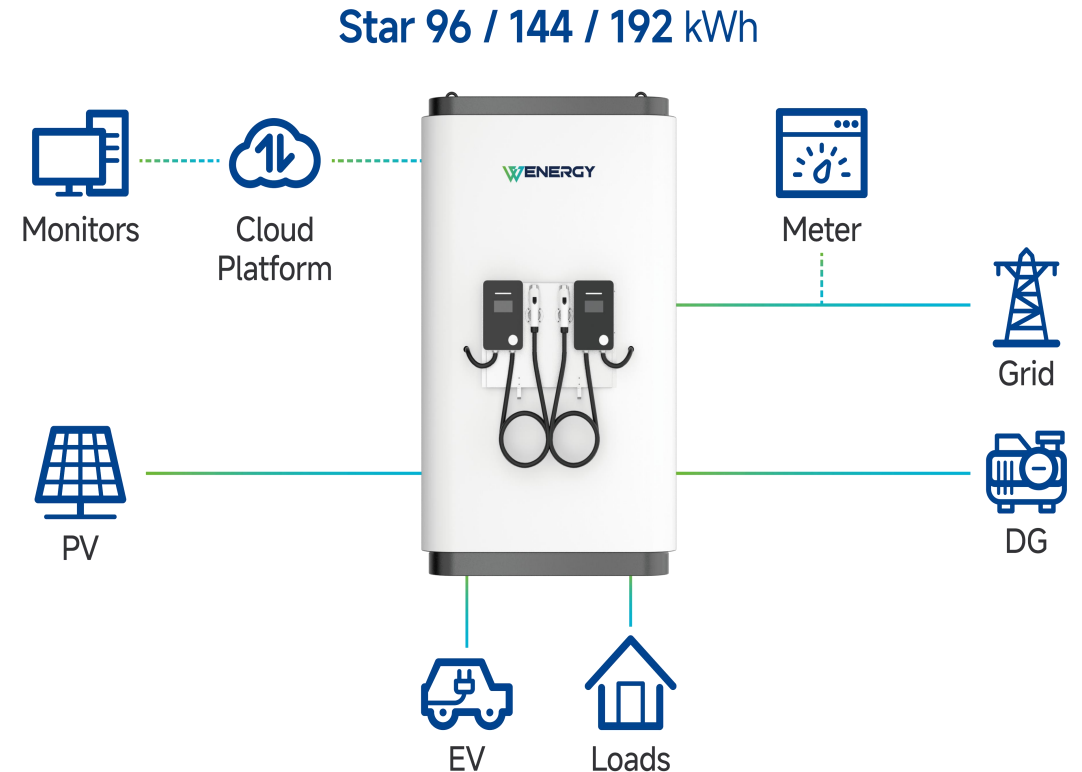
It tracks power generation plans, storing excess PV power and releasing it as required for reliable output.

Peak-Valley Management

Performs "peak-shaving and valley-filling" by storing power in low-demand times and supplying during peaks, optimizing grid efficiency and cutting costs.

EV Charging Support

Integrated AC charging piles enable convenient EV charging, using stored PV or off-peak grid power for clean transportation.



Application Scenarios

Residential Use

Small-scale Industrial & Commercial Use

Remote or Off-grid Area Use

Key Functions

All-in-One Integration

The energy storage system combines the battery, PCS, liquid-cooling, fire-fighting, and EMS. The in-cabinet PCS enables "plug and play" for easy setup.

Flexible Configuration

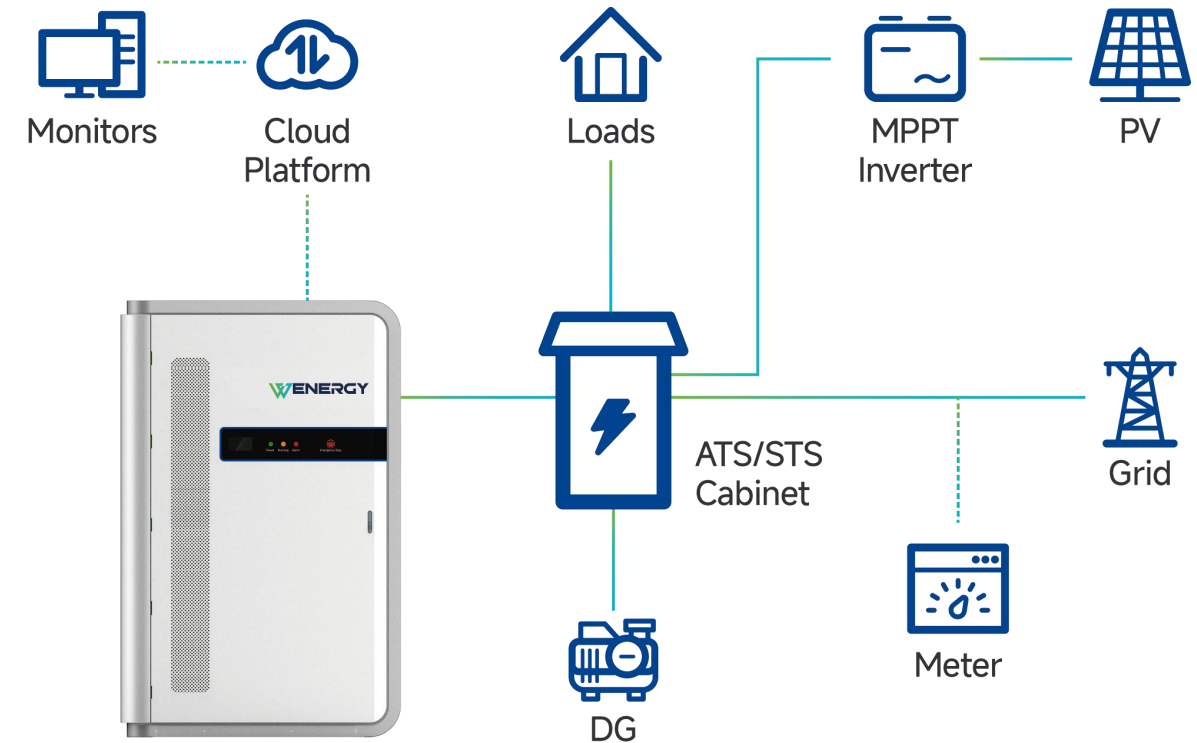
ATS and STS in the switching cabinet enable adaptable combinations of PV, ESS, DG, grid, and loads, which fit various scenarios.

Smooth Mode Switching

It switches seamlessly between grid-connected and off-grid modes, ensuring continuous power supply.

Smart Energy Management

EMS monitors and optimizes energy flow, maximizing system efficiency.



Star 215 / 258 / 289 kWh

Application Scenarios

Industrial & Commercial Use
Residential Micro-grid Use
Remote or Off-grid Area Use

Key Functions

Integrated Management

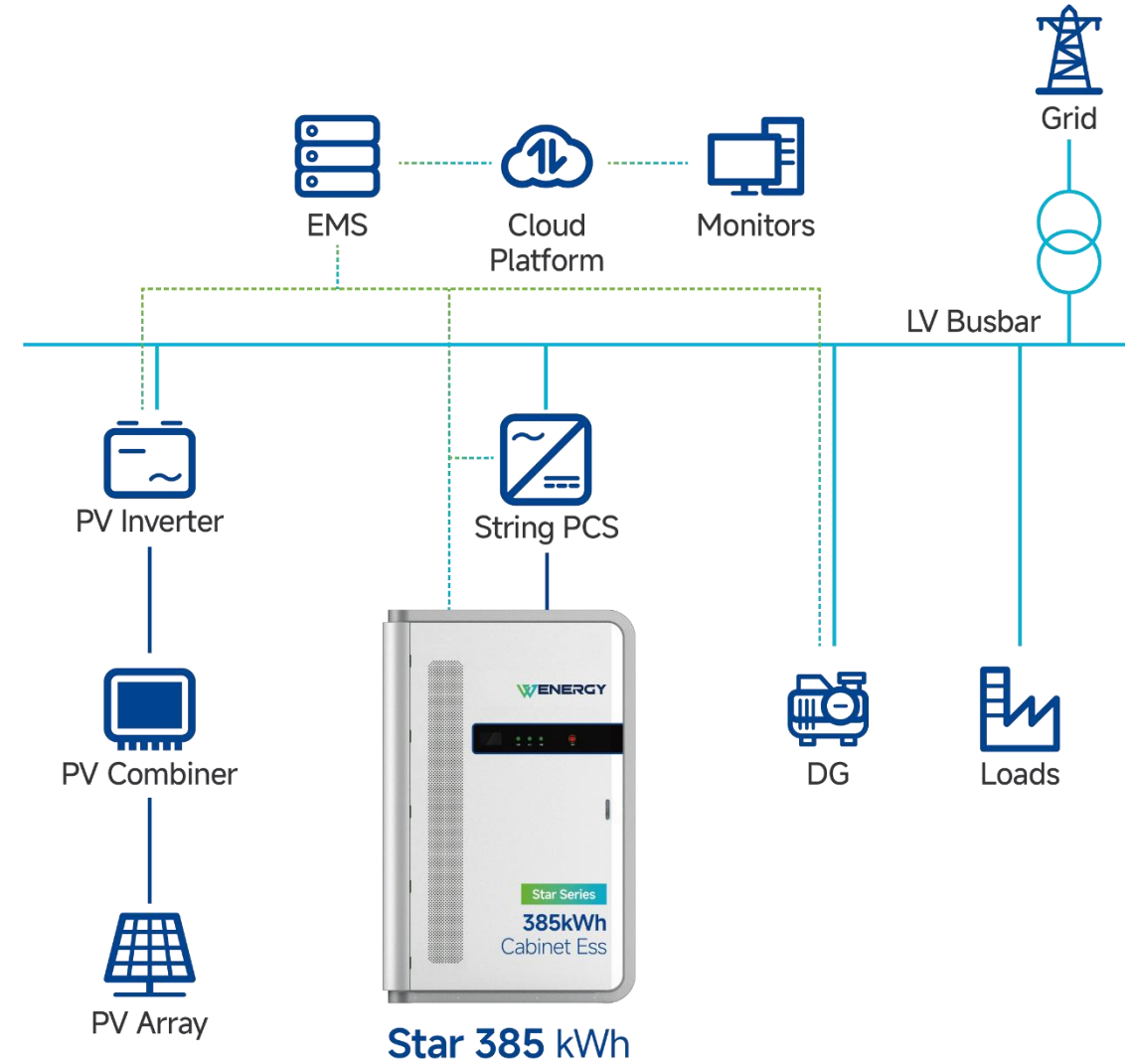
Integrates PV inverters, string PCS, and energy storage. EMS via the cloud platform enables centralized control for efficient energy distribution.

Flexible Power Interaction

Allows smooth switching and interaction among PV, storage, grid, and diesel generators to meet different power demands.

Real-time Monitoring & Control

Monitors system in real-time. EMS adjusts power distribution promptly based on load and energy status for reliable supply.



Wenergy Products

Powering the Future, Safely and Efficiently

embodying intelligence and technological prowess for optimized performance in sustainable energy applications

Turtle Series Container ESS

Product Highlights

- **Enhanced Safety**

Integrated intelligent management and fire protection systems ensure full lifecycle safety and stable operation.

- **Efficient Liquid Cooling & Durability**

Advanced liquid cooling for precise temperature control, extending battery life, with **IP54 protection** and **C4H anti-corrosion** for harsh environments.

- **Smart Monitoring & Management**

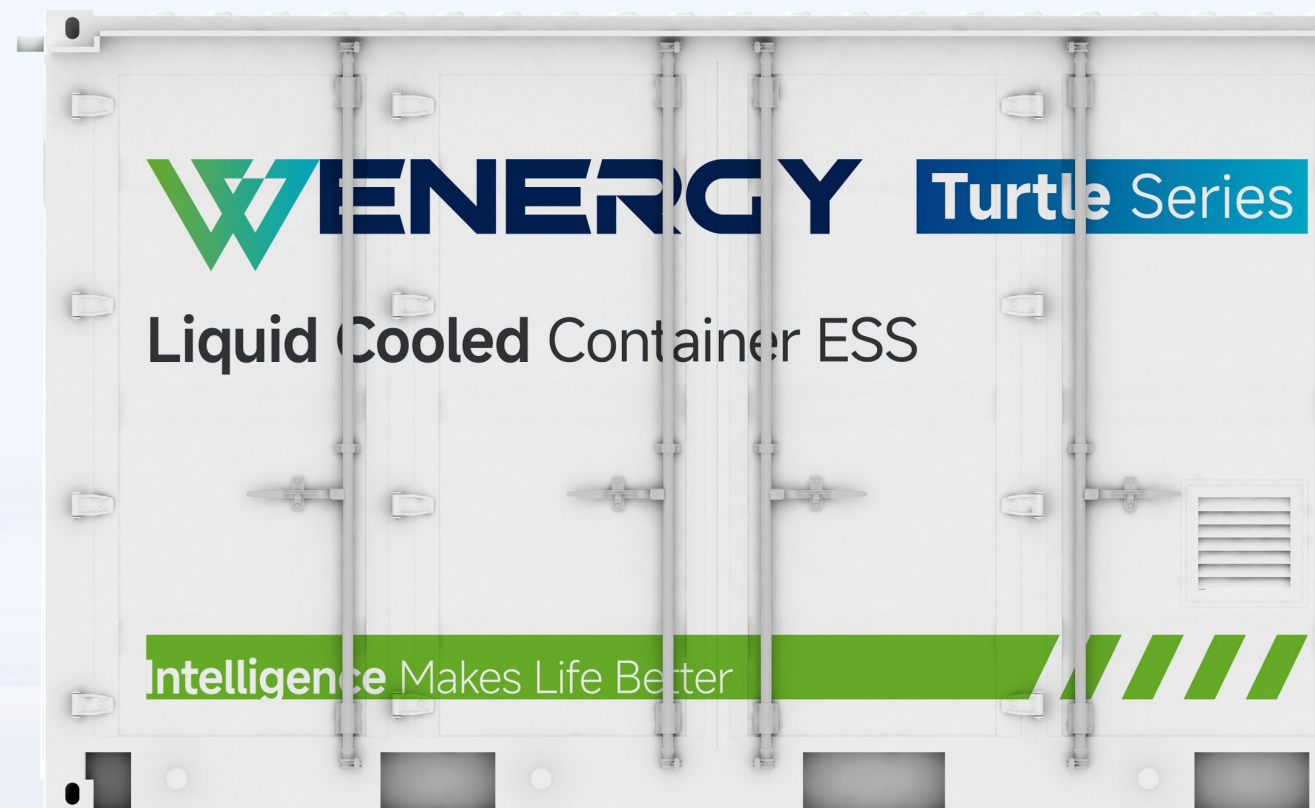
Integrated **BMS + PaaS + SaaS** platform enables precise temperature control, remote monitoring, and improved energy management efficiency.

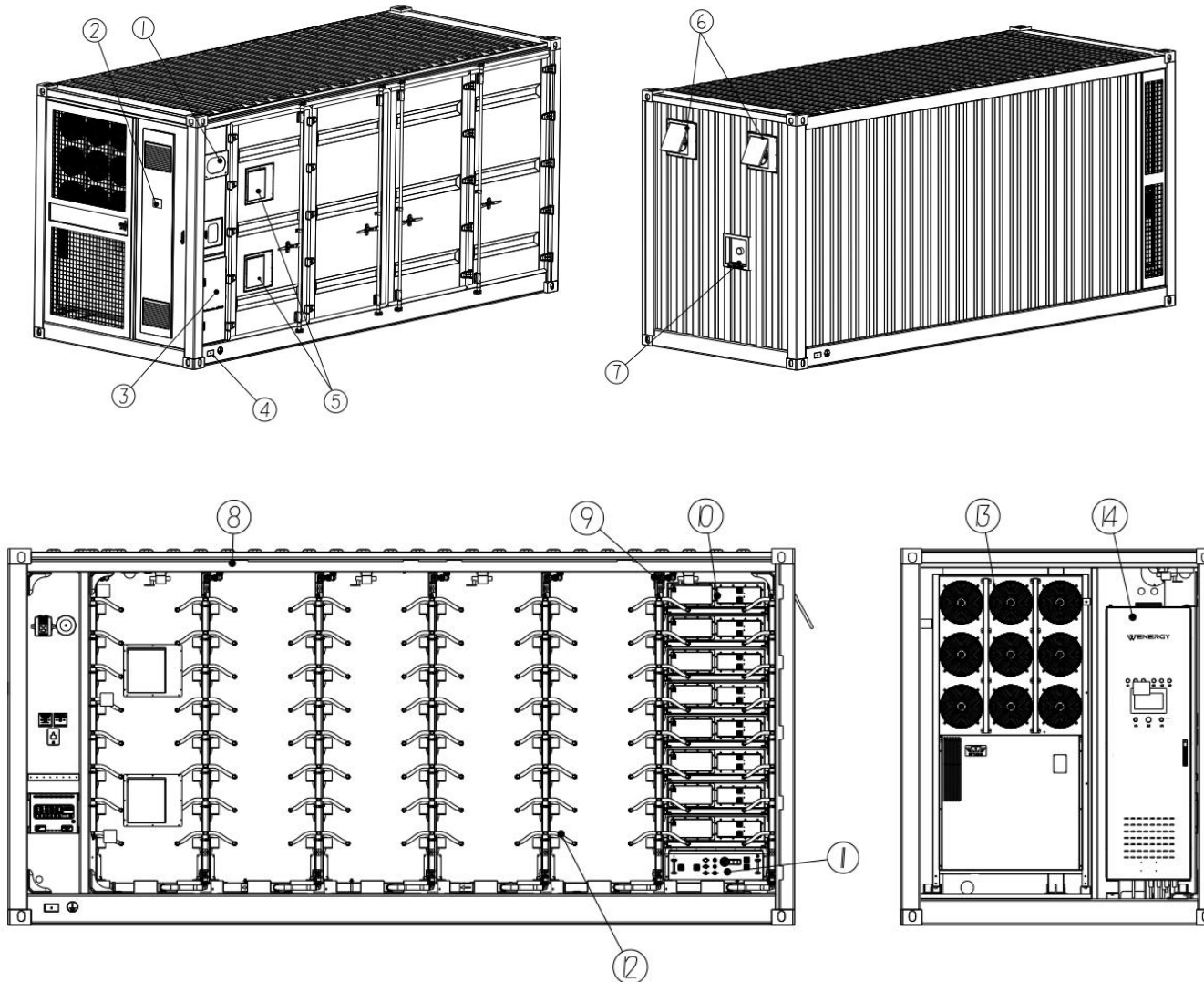
- **Cost-Effective & Easy Maintenance**

Large module design reduces installation and maintenance costs by **50%** compared to traditional solutions.

- **High-Density Container**

Features 314Ah cells and optimized structural design, increasing single-container capacity to 5.016MWh while saving **30%+** space compared to previous models.





System Layout Instructions

- ① Audible and Visual Alarm
- ② Nameplate
- ③ Fire Control Box
- ④ Ground Point
- ⑤ Air Inlet
- ⑥ Air Outlet
- ⑦ Fire Extinguishing Water Outlet
- ⑧ DC Combiner Box
- ⑨ Fire Extinguishing System
- ⑩ Battery Module
- ⑪ High-Voltage Box (PDU)
- ⑫ Thermal Management System
- ⑬ Liquid Cooling Unit
- ⑭ Combiner Cabinet

Turtle Series Container ESS

3.44/3.85/5 MWh


Product Parameter

Model	Turtle 3.44	Turtle 3.85	Turtle 5
Battery Type	LFP 280Ah	LFP 314Ah	LFP 314Ah
Rated Energy	3.44MWh	3.85MWh	5.016MWh
Rated Power	1.725MW	2MW	2.5MW
DC Rated Voltage	1228.8V	1228.8V	1331.2V
DC Voltage Range	1075.2V ~ 1382.4V	1075.2V ~ 1382.4V	1164.8V~1497.6V
Max. Efficiency of System	> 89%		
IP Protection Level	IP54		
Weight (kg)	33,000	36,000	43,000
Cooling Type	Liquid Cooling		
Noise	<75 dB (1m away from the System)		
Communication Interface	Wired: LAN, CAN, RS485		
Communication Protocol	Modbus TCP		
System Certification	IEC 60529, IEC 60730, IEC 62619, IEC 62933, IEC 62477, IEC 63056, IEC/EN 61000, UL 1973, UL 9540A, UL 9540, CE Marking, UN 38.3, TÜV Certification, DNV Certification, NFPA69, FCC Part 15B.		

Turtle M Series

Mobile Energy Storage Vehicle

289 / 723kWh
(Customizable Capacity)

- **High-performance**

Boasts high-power discharge, with a cycle efficiency exceeding **89%**, ensuring long-term stable operation.

- **Long-lasting**

Features an extended battery life cycle, over **8000 cycles**, and up to **15 - year** service life.

- **Ultra-safe**

With an **IP67**-rated battery system and advanced liquid cooling and fire-fighting, ensuring optimal cell conditions and safety.

- **Mobile & Versatile**

Mounted on a light truck for easy relocation, providing flexible power for outdoor activities.

System Applications

Microgrid Applications
Renewable Energy Integration
EV Charging Stations
Emergency Power Supply
Highway Service Area Emergency Charging



Auxiliary Power Supply

Self-powered / External Power Supply

Maximum Cycle Efficiency

>89%

Operating Humidity Range

≤95%RH

Operating Temperature Range

-30~45℃

Cooling Method

Intelligent Liquid Cooling

Protection Level

IP54

Fire Protection System

Aerosol Fire Fighting



Star Series Cabinet ESS

Product Highlights

- **Exquisite Exterior**

Unique curved design

- **Versatile & Customizable Configurations**

Supports integrated PV, ESS, diesel, and EV charging, adaptable to diverse energy needs.

- **Smart EMS Integration**

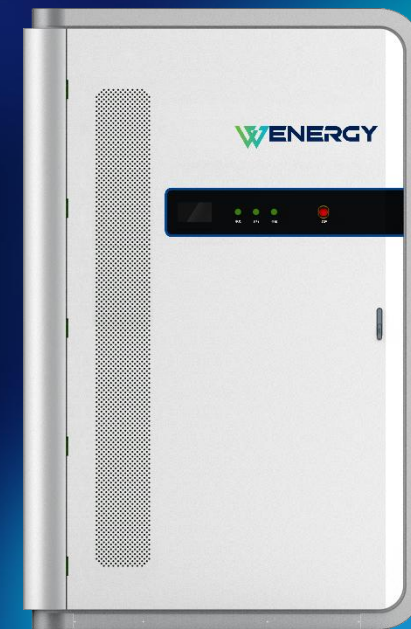
Cloud-enabled energy management with Modbus TCP/CAN2.0 protocols for real-time data analytics and AI-driven optimization.

- **90% High System Efficiency**

Exceeds industry standards, ensuring optimal energy utilization and cost savings.

- **Enhanced Safety & Durability**

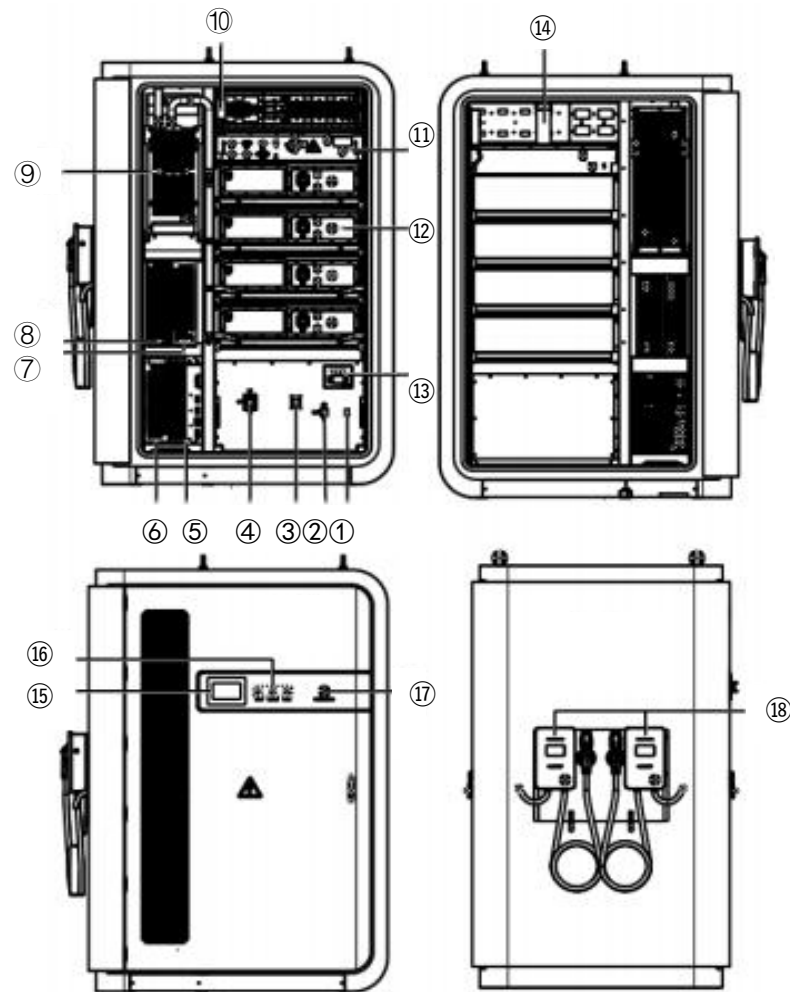
Features IP54 protection, C4H corrosion resistance, and aerosol fire suppression for reliable operation in harsh conditions and rapid fire response.



Star 258/289/385



Star 192



System Layout Instructions

- | | |
|--|--|
| ① Load Breaker 01 (optional) | ① 11. PDU |
| ② Load Breaker 02 | ② 12. Battery System (optional 2 to 4 packs) |
| ③ Main Breaker 01 | ③ 13. Multi-Power Transfer Switch ATS (optional) |
| ④ Main Breaker 02 (optional) | ④ 14. Fire Suppression System |
| ⑤ STS (optional) | ⑤ 15. Display Screen |
| ⑥ Photovoltaic Converter MPPT (optional) | ⑥ 16. Indicator Light |
| ⑦ Voltage Converter DCDC | ⑦ 17. Emergency Stop Button |
| ⑧ PCS | ⑧ 18. AC Charging Pile (optional) |
| ⑨ Liquid Cooling Unit | |
| ⑩ EMS | |

Taking Star Series 192 Energy Storage Cabinet as an example.

All-in-1 Cabinet ESS

Product Parameter

Integrated PV, ESS, Diesel
and EV Charging Capabilities

Star 192

Flexible Capacity Options

96/144/192kWh

Optional Multiple Configurations

MPPT
Four in - cabinet PV interfaces with built - in inverter—no extra inverter needed, cuts costs & simplifies setup.

STS
Ensures automatic and seamless switching between grid and off-grid modes for uninterrupted power.

ATS
Connects grid and backup generators for flexible power input.

Charging Gun
Supports electric vehicle (EV) charging.

Model	Star 192		
Rated Energy	96.46kWh	144.69kWh	192.92kWh
DC Voltage Range	240~350.4V	360~525.6V	480~700.8V
Rated Power	125kW		
AC Rated Voltage	400V		
Rated Output Frequency	50Hz		
IP Protection Grade	IP54		
Corrosion-proof Grade	C4H		
Cooling Type	Liquid Cooling		
Noise	<75dB(1m Away from System)		
Dimension(W*D*H)	(1800±10)*(1435±10)*(2392±10)mm		
Communication Interface	Ethernet		
Communication Protocol	Modbus TCP/IP		
System Certification	IEC 62619, IEC 60730-1, IEC 63056, IEC/EN 62477, IEC/EN 61000, UL1973, UL 9540A,CE Marking, UN 38.3, ISO 9001, ISO 14001, ISO 45001, TÜV Certification, DNV Certification		

*Standard:PCS、DCDC | Optional: MPPT (60KW)、STS、ATS、AC EV Charger (22KW*2)

Star Series Cabinet ESS

Product Parameter

ESS

Star 215/258/289/385

- International General Certifications

UN38.3, IEC 62619

- Functional Safety and Energy Efficiency Certifications

IEC 60730-1, IEC 63056, IEC/EN 61000

- Structural and Protection Certifications

IEC 60529

- European Market Certifications

IEC 62040 or 62477, RF/EMC, UKCA (IEC 62477-1), UKCA (CE-EMC Transfer)

- North American Market Certifications

UL1973, UL9540A

Model	Star 215	Star 258	Star 289	Star 385
System Parameters				
Battery Type	LFP 280Ah	LFP 280Ah	LFP 314Ah	LFP 314Ah
Rated Capacity	215kWh	258kWh	289kWh	385kWh
Cooling Type	Liquid Cooling			
IP Protection Level	IP54			
Corrosion-proof Grade	C4H			
Fire Protection System	Perfluoro / HFC-227ea (Optional)			
Noice	75dB	< 75dB (1m Away from the System)		
Dimension	935*1250*2380mm	(1588±10)*(1380±10)*(2450±10)mm		1578mm*1380*2500mm
Weight	2700±100kg	2950±150kg	3050±150kg	≤3900kg
Working Temp. Range	-30℃~55℃ (Derating When > 45℃)			
Relative Humidity Range	0~ 95 % (Non-condensing)			
Communication Interface	RS485 / CAN			
Communication Protocol	Modbus TCP/CAN2.0	Modbus TCP		
Cycle Life	≥6000	≥8000	≥8000	≥10000
Max. Efficiency of System	86%	> 89%	> 89%	> 93%
Quality Guarantee	3 Years	≥5 Years		
EMS	Local Control	Built-in	Built-in	External
DC Battery Parameters				
Rated Voltage	768V	921.6V	921.6V	1228.8V
Voltage Range	672~864V	720 ~ 1000V	720 ~ 1000V	960 ~ 1401.6V
Charge & Discharge Ratio	0.5P			
AC Side Parameters				
Rated AC Voltage	400V	400V	400V	-
Rated Output Frequency	50/60Hz	50/60Hz	50/60Hz	-
Rated Power	100kW	125kW	125kW	-
Rated Current	144A	182A	182A	-
Max. AC Power	120kW (60S 25℃)	150kW (60S 25℃)	150kW (60S 25℃)	-

Great Wall Series Residential ESS

Product Highlights

- **Safe reliability**

LiFeP04 square shell cell, multiple hardware level protection.

- **iBMS**

※ Rich hardware self-diagnosis circuit and key loop redundancy design.

- **Flexible extensibility**

Modular design, maximum 30kWh, support 1-6 batteries in parallel.

- **Perfect compatibility**

Compatible with single phase/three phase inverters, support CAN/RS485 communication protocol.

- **Long life**

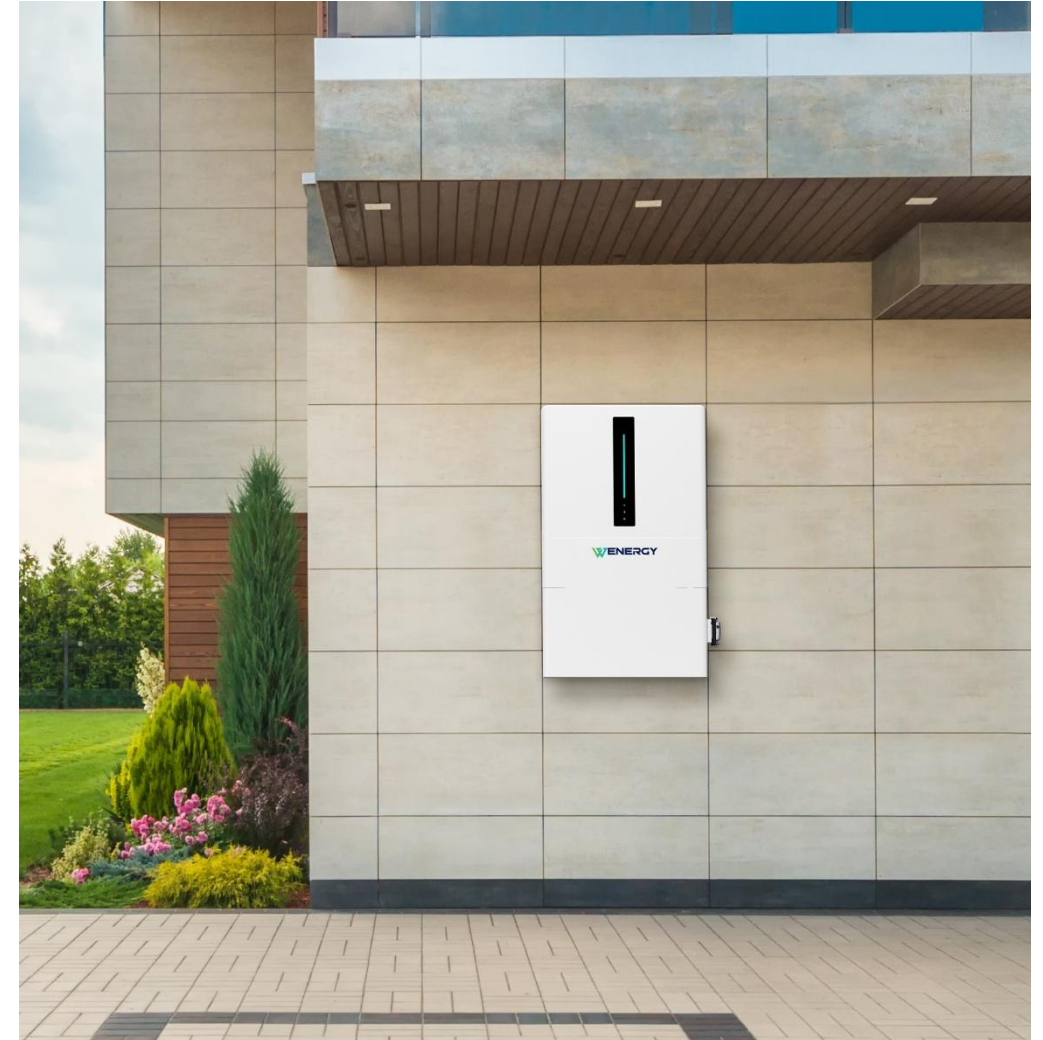
The charging and discharging life exceeds 6000 cycles, and the service life of the system exceeds 15 years.

- **Ease of installation**

Wall-mounted design saves floor space.

- **Strong environmental adaptability**

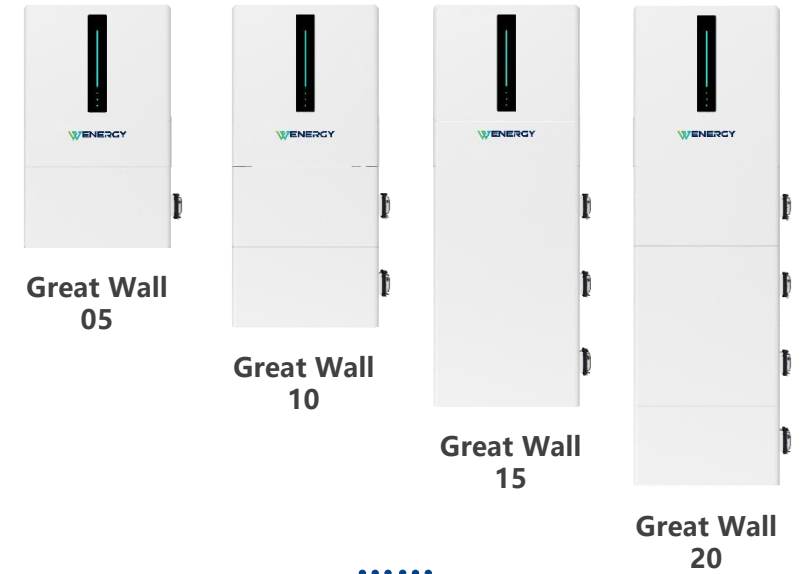
Temperature adaptation range: $-10^{\circ}\text{C} \sim 55^{\circ}\text{C}$, IP65 protection.



Great Wall Series Residential ESS

Model	Great Wall 05	Great Wall 10	Great Wall 20	.....	Great Wall 30
Configuration	2P16S	2P16S:2pcs	2P16S:4pcs	.....	2P16S:6pcs
Size	600*900*220mm	600*1200*220mm	600*1800*220mm	.....	600*2400*220mm
Weight	67kg	109kg	193kg	.....	277kg
Nominal Voltage	51.2V				
Voltage Range	40-58.4V				
Rated Capacity	100Ah	200Ah	400Ah	.....	600Ah
Rated Energy	5.12kWh	10.24kWh	20.48kWh	.....	30.72kWh
Max. Charge Current	50A				
Max. Discharge Current	100A				
Depth of Discharge	90%				
Communication Protocol	CAN/RS485				
Cycle Life	≥6000times @25°C 0.5C				
Operating Temp. Range	Charge: 0~55°C; Discharge: -10~35°C				
System Certification	ISO13849, IEC/EN 62619, IEC/EN 61000, IEC/EN 62040, UL1973, UL9540A				

Product Parameters



.....

Expandable
up to 30kWh

Application Cases

Our Mission Goes Beyond Energy Storage

With every project, we're not just delivering products—we're fueling industries, energizing communities, and helping shape a sustainable future.

CEEC-CGGC Group Project Cluster

Total Scale: 46.625MW/94MWh



◆ CGGC-Laohekou Cement ESS Project

Location Xiangyang, China

Scale **10.2**_{MW} / **20.64**_{MWh}

◆ CGGC-Yicheng Cement ESS Project

Location Xiangyang, China

Scale **13.6**_{MW} / **27.52**_{MWh}

◆ CGGC-Jiayu Cement ESS Project

Location Xianning, China

Scale **10.2**_{MW} / **20.64**_{MWh}

◆ CGGC-Zhongxiang Cement ESS Project

Location Zhongxiang, China

Scale **6.9**_{MW} / **13.76**_{MWh}

◆ CGGC-Gezhouba Special Cement ESS Project

Location Changde, China

Scale **5.725**_{MW} / **11.44**_{MWh}



Project Overview

Utilizing high-safety lithium iron phosphate battery technology and a prefabricated modular design, the project integrates solar power and waste heat recovery to enhance energy efficiency.

Since its launch, it has discharged approximately 6 million kWh of electricity, saving over 3 million yuan and operating at an impressive 88% efficiency, marking a significant step toward sustainable industrial energy management.

China CGGC-Gezhouba Special Cement ESS Project

Location Shimen County, Hunan Province

Scale Phase 1: **4**MW / **8**MWh
Phase 2: **1.725**MW / **3.44**MWh

Application Scenario Photovoltaic + Energy Storage

Benefits

Est. Total Discharge: 6 Million kWh

Est. Daily Cost Savings: > \$136.50

Cumulative Savings: > \$4.1 Million

System Efficiency: 88%

Annual Carbon Reduction: 3,240 tons



Project Overview

The mine previously relied solely on 18 diesel generators with a high energy cost of \$0.44/kWh, exacerbated by rising fuel costs and logistics/labor expenses. Grid power (\$0.14/kWh) offered lower rates but unreliable supply.

The project deployed a smart microgrid integrating solar PV, battery storage, diesel backup, and grid connectivity, prioritizing solar energy for daytime use with excess stored for nighttime/inclement weather while retaining diesel as backup.

Zimbabwe Microgrid Project

Scale

Phase 1: **12**MWp Solar PV + **3**MW / **6**MWh ESS

Phase 2: **9**MW / **18**MWh ESS

Application Scenario

Integrated Solar PV + Energy Storage + Diesel Generator (Microgrid)

System Configuration

- 12MWp Solar PV Modules
- 2 Customized Energy Storage Battery Containers (3.096MWh total capacity)

Benefits

Est. Daily Electricity Savings 80,000 kWh

Est. Annual Cost Savings \$3 million

Est. Cost Recovery Period <28 Months

Romania Photovoltaic + Energy Storage+ Power Grid Project



Project Overview

The energy storage system is primarily used to participate in grid frequency regulation and enhance grid stability.

It also stores excess power generated by photovoltaics, providing power to the loads during peak demand or when generation is insufficient.

This improves energy utilization efficiency and reduces dependence on the traditional power grid.

Scale

10_{MW} / **20**_{MWh}

System Configuration

3.85 MWh battery energy storage system containers * 5

Germany Photovoltaic + Energy Storage Project



Project Overview

This integrated system combines photovoltaics (PV), energy storage (ESS), and the grid to maximize energy efficiency.

During sunlight, PV powers loads and charges ESS; at night or during low sunlight, ESS and PV jointly supply power until ESS SOC drops below 15%. The grid recharges ESS if SOC falls below 80%, ensuring reliable and cost-effective energy management.

System Configuration

20 kWp PV

258 kWh Star Series Energy Storage Cabinet

Benefits

Daylight powers loads, excess charges storage.
Low sunlight uses both solar and storage.
Grid supplements storage < 80% SOC at night.

China Energy Storage Project



Project Overview

Wenergy partnered with Hunan Haili Lithium Battery Technology to implement an energy storage project in Changsha High-Tech Development Zone.

Operating on a peak shaving and load shifting model, the system ensures reliable power for Haili's production. Completed in just 20 days, the project highlights Wenergy's commitment to efficient and sustainable energy solutions.

Scale

1.44_{MW} / **3.096**_{MWh}

System Configuration

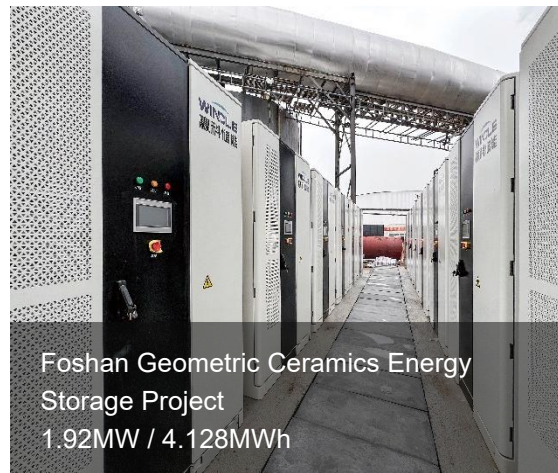
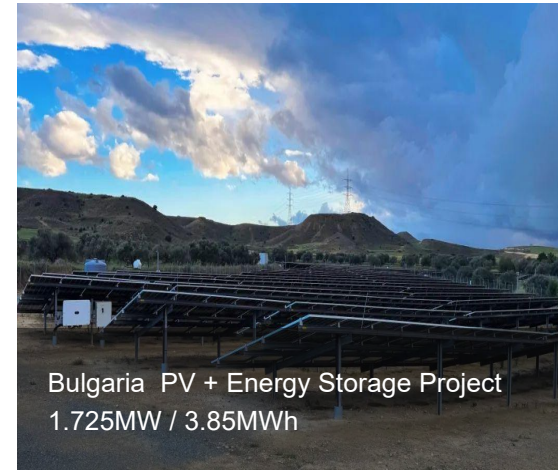
- **12*258**_{kWh} ESS Cabinet Connected to 10/0.4kV-2500kVA Transformer

Benefits

Est. Total Discharge: 998.998 MWh

System Efficiency: 88%





THANKS

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