Gotion

A Global Leader

In the Energy Storage Industry



ESS Market

Front-of-the-Meter

- Utility-scale Generation
- Utility-scale Energy Storage
- Transmission and Distribution

Behind-the-Meter

- Commercial and Industrial(C&I)
- Residential
- Electromobility

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About Gotion

Gotion High-tech Co., Ltd. is a pioneering leader in the energy storage battery industry. It was listed on the Shenzhen Stock Exchange in China in May 2015 (002074.SZ) and on the SIX Swiss Exchange in July 2022 (GDR listing code: GOTION). As an internationally diversified company with European and American capital participation, its main business includes power lithium batteries, energy storage solutions, and power transmission and distribution equipment. Gotion has over 20 years of expertise in material and cell technology, with an in-house vertical value chain exceeding 600k tons. Offering integrated carbon-zero solutions across 10+ applications, Gotion is recognized as a world-class Tier 1 BESS supplier.

Product Market Layout

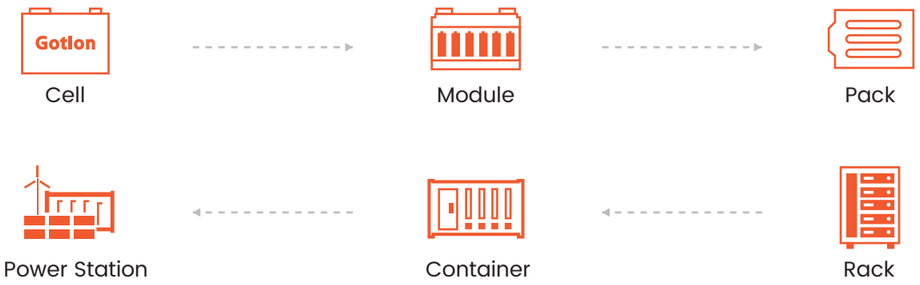
- EV Market
- ESS Market
- Recycling Market

Main Business

EV Battery Systems and Services



Energy Storage Solutions and Services



We Provide

- Localized Factory
- Extended Warranties
- After-sales Service
- Financing Service

*All Services for Both EV and ESS



Global Achievements

Tier 1
Gotion is Recognized as a Tier1 Energy Storage Manufacturer in Bloomberg's Rankings for Q2, 2025

Tier 1
Gotion is Listed as a Tier1 Energy Storage Manufacturer by SMM in Q2, 2025

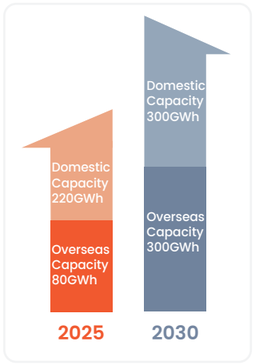
2024
Volkswagen Battery Category Best Supplier

Worldwide Top 6
Global Installed Capacity of LFP Batteries in Q2, 2025

Worldwide No.7
Total Shipment Volume of Energy Storage Lithium Batteries in 2024

2024
China Top 500 Enterprises

Global Capacity Strategic Layout



EMEA
40 GWh
200,000 tonnes (Cathode)

Asia-Pacific
20 GWh

Americas
40 GWh
200,000 tonnes(Cathode)

China
200 GWh
400,000 tonnes (Cathode)

Energy Storage Product Achievements

Deployed since **2018**

Project Cases **>200**

Shipment Volume **>46GWh**

- Huaibei Wanneng Energy Storage Power Station Project I
  - the largest single-capacity grid-side LFP energy storage power station in China.
- California Theater Energy Storage Project
  - the first case in the U.S.

Four Markets for Global Coverage



- Establish a presence in four business regions: China, Asia-Pacific, Europe and Africa, and the Americas
- Export products to dozens of countries and regions, such as the US, Canada, the European Union, Thailand, Indonesia, Vietnam, Singapore, and Morocco
- Achieve independent raw material supply in the four major business regions to localize supply chains over the next five years

Company Milestones

2021
- Gotion entered the US Market; A contract is concluded for 200 GWh LFP batteries
- The company's first new energy production and operation complex in Europe was established, specifically in Gottingen, Germany

2022
- The first zero-carbon anode material factory in the world was established in the Inner Mongolia Autonomous Region
- Semi-solid-state batteries with a single energy density of 360 Wh/kg were launched

2023
- Accredited by Volkswagen Laboratories to join the world's leading technology management system
- The battery plant in Illinois, the US commenced construction
- Products in the plant in Gottingen, Germany were launched

2024
- Three new major products and technologies: G-current, Stellary battery, and all-solid-state Gemstone battery were released
- The company won the Volkswagen Group Best Supplier Award for Batteries

2025
- Commissioning of the Gemstone all-solid-state battery pilot production line
- Launch of the Gotion GRID 20MWh product
- Groundbreaking for Morocco Complex as Slovakia Facility Opens
- Release of the Zero-Carbon Solution
- Joined the United Nations Global Compact

2020
- Strategic Collaboration with Volkswagen(China)
- The company received First Prize at the Anhui Provincial Science and Technology Progress Awards

2018
- The company received National Green and Intelligent Factory recognition from the Ministry of Industry and Information Technology of China
- The 100,000th power battery set for JAC vehicles rolled off the production line

2016
- Helping Hefei's being crowned World's Most Influential EV City

2015
- The company was successfully listed on the Shenzhen Stock Exchange
- CNAS lab accreditation was received

2014
- Recognition was granted as a National Enterprise Technology Center
- The Silicon Valley R&D Institute was established in the USA

2006
- The company was officially incorporated

2007
- The first LFP material production line was put into operation
- Recognized as an "861 Action Plan" key project unit in Anhui Province

2008
- The Engineering Research Institute was established
- The lithium-ion battery manufacturing project was included in the National Torch Program list

2009
- Undertaking projects under the National High-tech R&D Program (863 Program)
- Production began on batteries for electric buses
- Recognition was granted as a Battery Vehicle Demonstration Unit of the "Ten Cities and One Thousand Vehicles Program" for Hefei

2010
- Contributing to the launch and operation of the world's first all-electric bus line
- Groundbreaking of the 200,000 Ah automotive-grade LFP battery production line

Global Footprints

8
Global R&D Centers

20
Global Production Hubs

6
Layout of Localized Supply of Materials

Headquarters · R&D · Plant · Materials



China
- Headquarters
- Engineering Research Institute
- Global R&D Center
- Hefei Complex
- Lujiang Complex
- Tongcheng Complex
- Jinzhai Gotion
- Chuzhou Gotion
- Nanjing Complex
- Nantong Gotion
- Qingdao Gotion
- Tangshan Gotion
- Liuzhou Gotion
- Wuhai Gotion
- Yichun Gotion

Germany
- German Research Institute
- Battery Production Complex

Morocco
- Material Plant
- Battery Production Complex

Slovakia
- Battery Production Complex

Thailand
- Battery Production Complex

Singapore
- Joint Laboratory

Indonesia
- Material Plant
- Battery Production Complex

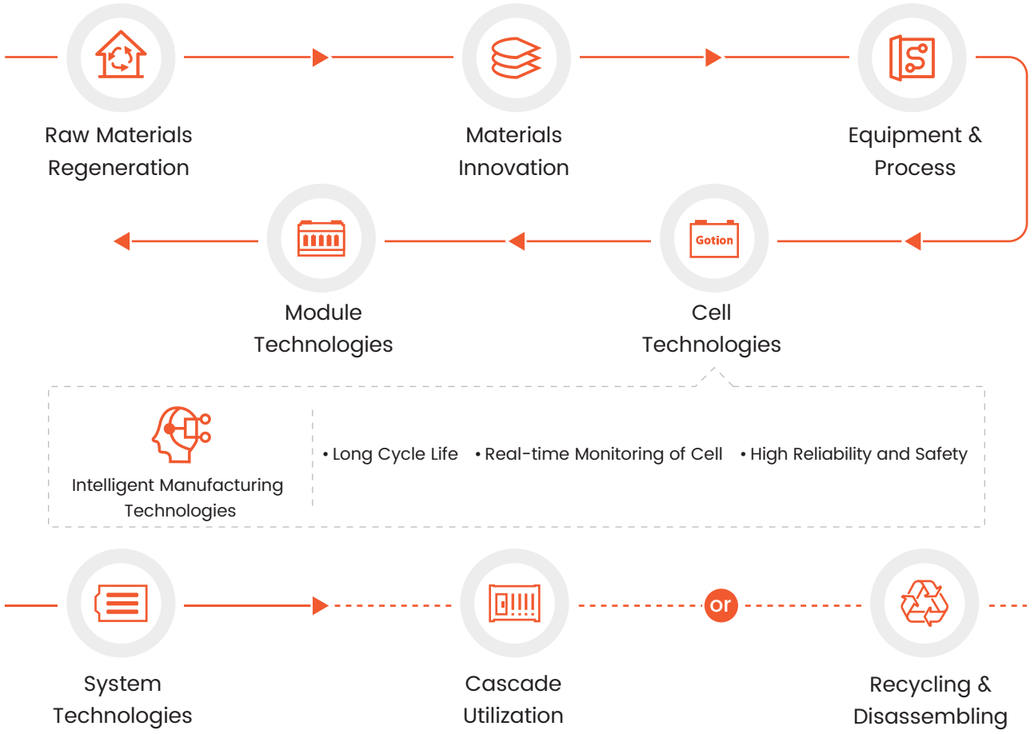
Vietnam
- Battery Production Complex

USA
- Silicon Valley Research Institute
- Cleveland Research Institute
- Material Plant
- Battery Production Complex

Argentina
- Material Plant

Japan
- Tsukuba Research Institute

Technology Highlights



11,236 Patents Applied

312 Research Papers Published

93 Industry Standards Formulated

≥1,000 Material Field Patent Holdings

Data as of 05.10.2025



R&D Strength

Three Validation Platforms

Material Testing

Electrical Performance Testing

Safety and Reliability Testing

Team Size

9,000+ R&D technicians

15,000+ R&D headcount over the next three years

85% R&D personnel with master's and doctoral degrees

300+ Ph.D. Degree Holders

1,000+ Material R&D Teams

Scientific and Technological Innovation

1 Global New Energy Vehicle Innovation Technology Award (Key Technology and Application of Phosphate Polyanionic 210Wh/kg Battery)

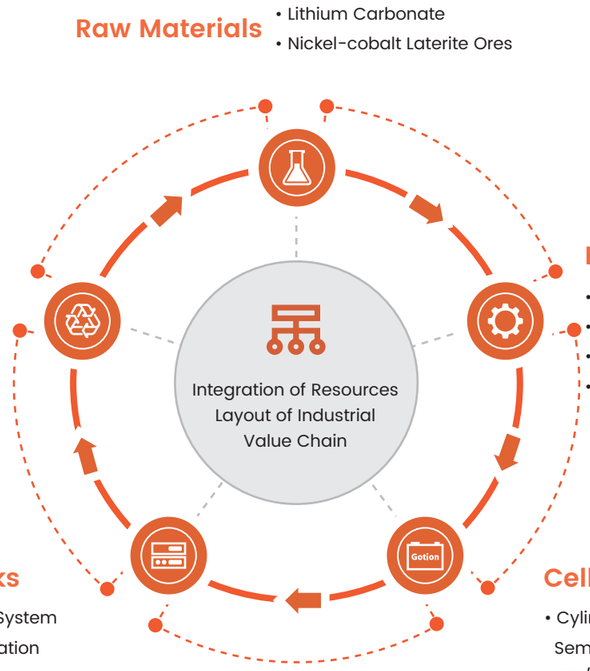
Validation Platform

3 Three Key Validation Platforms

5 Five Major Verification Bases

10+ Over Ten Subsidiary Labs

Worldwide Integrated Industry Chain



Raw Materials
- Lithium Carbonate
- Nickel-cobalt Laterite Ores

Recycling
- Battery Recycling
- Cascaded Utilization

Battery Materials
- Cathode and Anode Materials
- Separator
- Copper Foil
- Cathode Precursor

Modules & Packs
- Battery Management System
- Energy Storage Application System Solution

Cells
- Cylindrical/Prismatic/Pouch/ Semi-solid-state Battery
- LFP/NCM/LFMP/NA+, etc.

Full Industrial Chain

- Europe, Africa, America, Asia-Pacific and China
- Independent Self-sufficient Raw Material Supply
- Closed Loop Industry Value Chain
- Substantial Lithium Mine Layout

USA
Cathode Material
Anode Material
Separator

Argentina
Lithium Carbonate

Indonesia
Nickel-Cobalt

Europe & Africa
Cathode Material
Separator
Aluminum

Morocco
Cathode Material
Separator

China

Hefei, Anhui	NCM, LFP Cathode Material, Separator
Yichun, Jiangxi	Lithium Carbonate
Caofeidian, Hebei	NCM Precursors
Wuhai, Inner Mongolia	Anode Material
Tongling, Anhui	Copper Foil

Quality Assurance



Recognized by CNAS in 2015, the Gotion High-tech Testing and Experimental Center is East China's largest lithium-ion battery testing facility. It houses over 1,000 advanced testing devices and employs 700+ technical experts. The center specializes in materials development, performance testing, safety, reliability, and BMS which leads key national projects.

Quality and Emergency Response System

Full Flow Management
- QMS
- Quality Audit
- Quality Performance
- Quality Culture

Development Quality
- Design Quality Management
- Project Gate Review
- NPI

Supplier Quality
- Supplier Management
- Supplier Qualification
- Incoming Material Quality

Manufacturing Quality
- Process Improvement
- Product Quality
- Lab & Gauges

After-sales Service
- Complaints Improvement
- Product Safety
- Failure Analysis Program

Customer Services
- *24/7 Remote Monitoring
- *Active Fault FCST
- Standardized Failure Tree Analysis

*24/7 Remote Monitoring and Active Fault FCST are available as customized services.

Certifications & Compliance

Certificate for Online Auditing

RDW









ISO 9001 | IATF 16949 | ISO 14001 | ISO 45001

*Not all the certifications are on the page and partial certifications are in progress.



5

ESS Product

Utility-Scale BESS

Commercial & Industrial BESS

Residential BESS

Mobile EV Chargers

Portable Power for Gendome Residential



World's First 20MWh PV Storage with 25-Year Lifespan

50%
AI-driven O&M boosts efficiency by 50 %

7
Ultimate protection with seven safety layers

20%
Air–liquid cooling cuts annual energy use by 20 %

IP55/C5
Full-area enclosure, IP55 & C5 rated

38%
Compact layout saves 38 % of land

Product Strengths

Extended Lifespan
- Full lifecycle optimization design
- 25-year design lifespan

Ultimate Safety
- Seven-layer protection plus IP55 / C5 certification
- Reliable operation in extreme environments

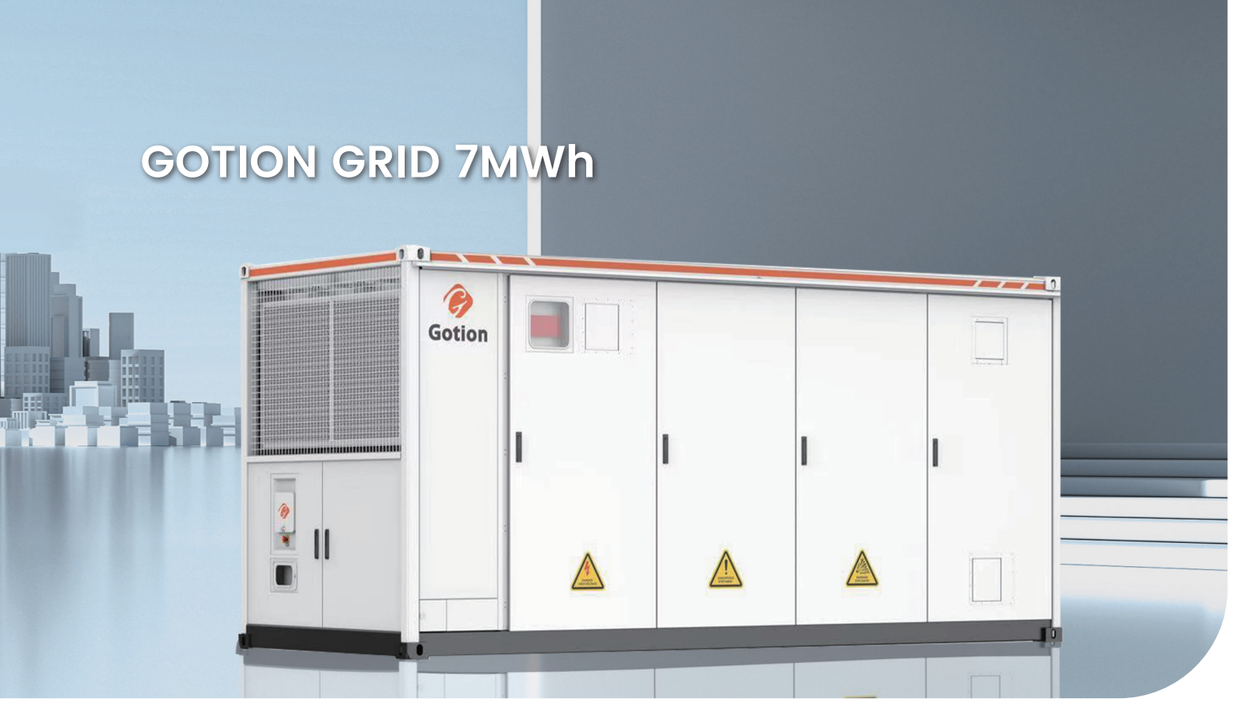
Cost Reduction
- Ultra-large single-cabinet design delivers higher energy density
- Air–liquid cooling trims annual energy consumption by 20 %
- Optimized ESS layout reduces land use by 38 %

Smart Operation
- Multilingual intelligent control platform improves O&M efficiency
- Modular integration solution shortens construction cycles

Model	GOTION GRID 20MWh
Electrical Parameters	
Cell capacity	LFP-314Ah
Nominal Energy	20.06MWh
Nominal Voltage	1331.2V
Recommended Voltage Range	1164.8V-1497.6V
Maximum Charge/Discharge Rate	0.5P@25°C
Maximum Charging Power	1003.1kW(0.5P)
Environmental Parameters	
Storage Temperature	-30°C~60°C
Operating Temperature	-30°C~55°C
Operating Humidity	≤95%
Altitude Rating	≤3000m
Structural Parameters	
Ingress Protection Rating (IP Rating)	IP55
Cooling Method	Liquid-Cooling
Communication Method	CAN, RS485, Ethernet
Communication Protocol	CAN,Modbus-TCP/IP,ModbuS RTU,IEC104
Fire Suppression System	• Pack-level immersion suppression • Total-flooding gas extinguishing • Water spray protection
China Compliance	GB/T 36276
US Compliance	UL 1973 , UL 9540, UL 9540A, NFPA 69, NFPA 855, NFPA 68*
EU Compliance	IEC 62619,IEC 60730, IEC 63056, IEC 62477-1, IEC 61000-6-2, IEC 61000-6-4, IEC 62933-5-2,IEC 62933-2-1, IEC 63056,IEC 60529,EN 1364-1
Dimensions (W×D×H)	5000×10000×4600mm
Weight	≈170t

* Certification in progress

GOTION GRID 7MWh



≥7MWh
Ultra-High Energy Density

588Ah
High-Capacity Cells

≤3°C
Intelligent Thermal Control

25% Smaller Footprint
Space Efficient

Product Strengths

Superb Safety Design
- Pack-level suppression, total-flooding gas extinguishing, and water spray protection
- Compartmentalized design with 2-hour fire-rated partitions

One Container, Massive Power
- 7.04 MWh per container, 25% less land use
- 40% higher in energy density

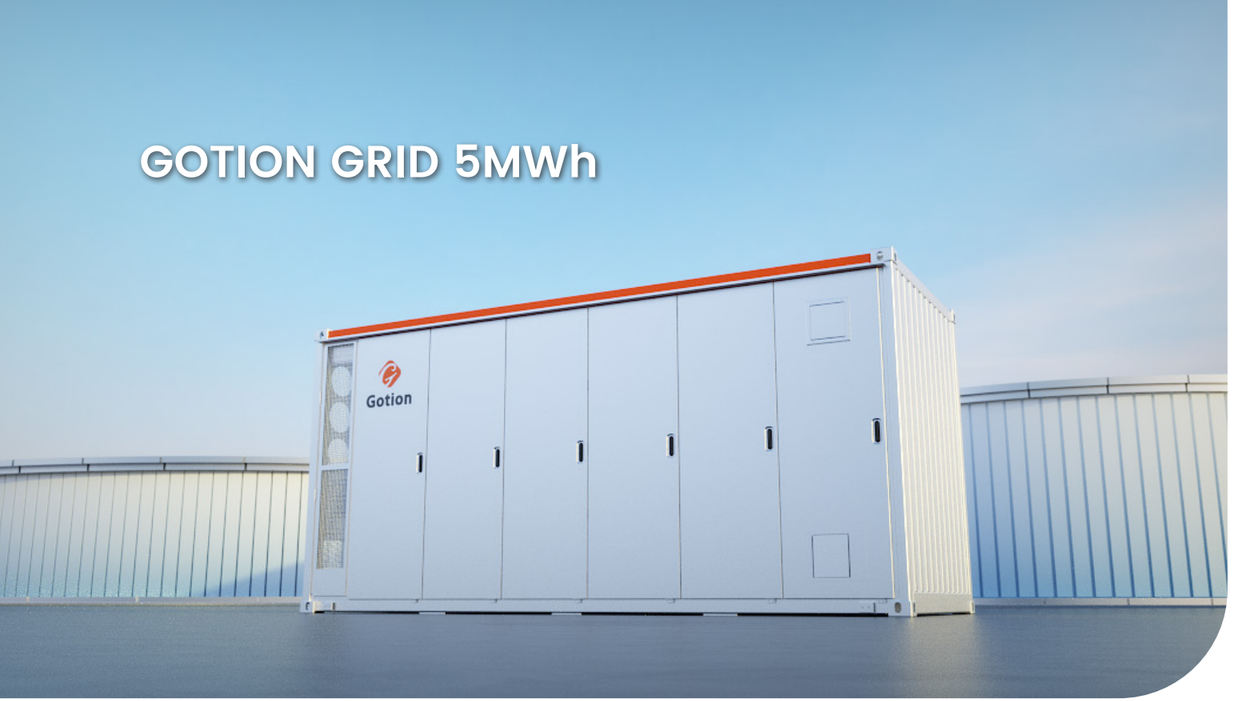
Engineered for Longevity
- Full-container IP55 protection, C5 anti-corrosion rating, and pack-level IP67 protection
- Smart liquid cooling with <3°C cell temperature variance

High Efficiency & Flexibility
- Modular platform fits flexible deployment in high-temp or sandstorm-prone environments
- Horizontal cooling with top exhaust boosts heat exchange by 20%

Model	ESD1331-025P7044	ESD1331-05P6261
Electrical Parameters		
Cell Capacity	LFP-588Ah	
Nominal Energy	7044.7kWh	6261.9kWh
Nominal Voltage	1331.2V	
Recommended Voltage Range	1164.8V-1497.6V	
Maximum Charge/Discharge Rate	≤0.25P@25°C	≤0.5P@25°C
Maximum Charging Power	1761.1kW(0.25P)	3130.9kW(0.5P)
Environmental Parameters		
Storage Temperature	-30°C~60°C	
Operating Temperature	-30°C~55°C	
Operating Humidity	≤95%	
Altitude	≤3000m	
Structural Parameters		
Ingress Protection Rating (IP Rating)	IP55	
Cooling Method	Liquid-Cooling	
Communication Method	CAN, RS485, Ethernet	
Communication Protocol	CAN, Modbus-TCP/IP, Modbus RTU, IEC104	
Fire Suppression System	• Pack-level immersion suppression • Total-flooding gas extinguishing • Water spray protection	
China Compliance	GB/T36276*	
US Compliance	UL 1973*, UL 9540*, UL 9540A*, NFPA 69*, NFPA 855*, NFPA 68*	
European Standard	IEC 62619*,IEC 62477-1*, IEC 61000-6-2*, IEC 61000-6-4*, IEC 62933-5-2*,IEC 60730*, IEC 63056*	
Shipping Compliance	UN 38.3*, UN 3536*	
Dimensions (W×D×H)	6058mm×2438mm×2896mm	
Weight	≤54t	≤50t

* Certification in progress

GOTION GRID 5MWh



≥5MWh
High Energy Density

Triple-Layer Protection
Robust Safety

20ft
Plug-and-Play Logistics

≤3°C
Smart Climate Control

Product Strengths

Built-In Safety from Cell to System

- Pack-level immersion suppression, total-flooding gas extinguishing, and water spray protection
- Cell-level temperature monitoring and thermal isolation for thermal event control

More Energy, Less Footprint

- 5.015 MWh per container with 45% higher energy density
- A/B single-door design optimizes space and enables modular deployment

Cooled for Longevity

- Optimized liquid cooling with variable-diameter piping for balanced heat dissipation
- Extends system lifespan through intelligent thermal control

Flexible Layout, Scalable Impact

- Flexible configuration of primary, secondary, and power systems
- Modular containers reduce land use by 35% in 100 MWh projects

Model	ESD1331-05P5015
Electrical Parameters	
Cell Capacity	LFP-314Ah
Nominal Energy	5015.9kWh
Nominal Voltage	1331.2V
Recommended Voltage Range	1164.8V-1497.6V
Maximum Charge/Discharge Rate	0.5P@25°C
Maximum Charging Power	2507.9kW(0.5P)
Environmental Parameters	
Storage Temperature	-30°C~60°C
Operating Temperature	-30°C~55°C
Operating Humidity	≤95%
Altitude	≤3000m
Structural Parameters	
Ingress Protection Rating (IP Rating)	IP55
Cooling Method	Liquid-Cooling
Communication Method	CAN, RS485, Ethernet
Communication Protocol	CAN, Modbus-TCP/IP, Modbus RTU, IEC104
Fire Suppression System	• Explosion-proof Exhaust and Ventilation System • Temperature/Smoke/Combustible Gas Detection System • PACK-level submerged Fire Extinguishing System • Aerosol Fire Extinguishing System • Prefabricated Water Sprinkler System (Optional)
China Compliance	GB/T 36276, GB/T 44240
US Compliance	UL1642, UL1973, UL9540, UL9540A, NFPA 69, NFPA 855, NFPA68*
European Standard	IEC 62619, IEC 62477-1, IEC 61000-6-2, IEC 61000-6-4, IEC 62933-5-2, IEC 60068-2, IEC 62620, IEC 61427-1, IEC 61427-2, IEC 60730, IEC 63056, EU 2023-1542, IEC 62933-2-1,IEC 62040-1
Australian/New Zealand Standards	AS/NZS 3000:2008+A1+A2, AS/NZS 5139:2019,AS/NZS 3008.1.1/2
Shipping Compliance	UN38.3, UN3536
Dimensions (W×D×H)	6058mm×2438mm×2896mm
Weight	≈ 44t

*option upon request

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Exceptional Safety

Protection Design

- Dry/wet separation design by an integrated die-casting structure of the liquid cooling plate and pipeline



1st Level Protection

- Continuous cell level temperature monitoring from BMS
- Abnormal Cell Temperature Rise Alarm
- PACK-level submerged fire extinguishing system for thermal runaway suppression, tested and proven with no reignition after 24 hours

2nd Level Protection

- Thermal, Smoke, Combustible Gas Detection and Alarm
- Liquid Leakage Detection
- Active Ventilation and Exhaust System
- Pressure Relief System
- FK 5-1-12 Automatic Dry Agent Fire Extinguishing System

3rd Level Protection

- Prefabricated Water Sprinkler System (optional)
- External Fire Hose Connection Port



Model	ESD1267-05P3421
Electrical Parameters	
Cell Type	LFP-300Ah
Rated Voltage of Single Cell	3.2Vdc
System Nominal Energy	3421kWh
System Rated Voltage	1267.2Vdc
System Voltage Range	990Vdc ~ 1445.4Vdc
System Rated Power	1710.5kW
Charge / Discharge Rate	≤ 0.5P @ 25°C
Components	
High Voltage Box	Integrated
Confluence Cabinet	Integrated
Monitoring System (HMI)	Integrated
Fire Suppression System	• Explosion-proof exhaust and ventilation system • Temperature/smoke/combustible gas detection system • **PACK-level submerged** fire extinguishing system • FK 5-1-12 automatic dry agent fire extinguishing system • Prefabricated water sprinkler system (optional)
Thermal Management System	• Integrated Liquid Cooler 40kW Cooling Capacity • Air-cooling for Container
EMS	Not Integrated
BMS	Integrated
Conditions	
Storage Temperature	-30°C ~ 60°C
Working Ambient Temperature	-30°C ~ 45°C(>45°C Derating)
Working Relative Humidity	0% ~ 95% (Non-condensing)
Working Altitude	≤3000m
Other Parameters	
Ingress Protection	IP54
Communication Interface	CAN, RS-485, Ethernet
Communication Protocol	CAN, Modbus-TCP/IP, Modbus RTU, IEC104
Dimensions (W×D×H)	6058×2438×2896mm/238.5×96×114in (20ft Container)
Weight	37t
Standards & Certification	UL 9540A, UL 9540, UL 1973, UN 38.3, UN 3536, NFPA 855, NFPA 69, IEC 62477-1, IEC 61000-6-2, IEC 61000-6-4, IEC 62933-5-2, IEC 63056, IEC 62619, IEC 60730-1, GB/T 36276

GOTION EDGE X: DC Energy Storage Solution



Density Increased by 2%, Footprint reduced by 5%

Parallel DC-side configuration supports off-grid operation above 5MWh

Standardized Design Compatible with 20ft and 40ft standard dimensions

Highly compatible with various PCS models

Product Strengths

Safe and Reliable

- Dual-cabinet design with independent fire zones
- Tier-3 fire protection: timely suppression, flame-retardant, and explosion-proof

Intelligent and Flexible

- Intelligent temperature control, reducing condensation risk
- Compatible cabinet layout to fit various customer needs

Smart and User-Friendly

- Supports centralized or string PCS connections
- For overseas projects: compatible with local PCS/grid, reducing PCS certification and grid-connection complexity

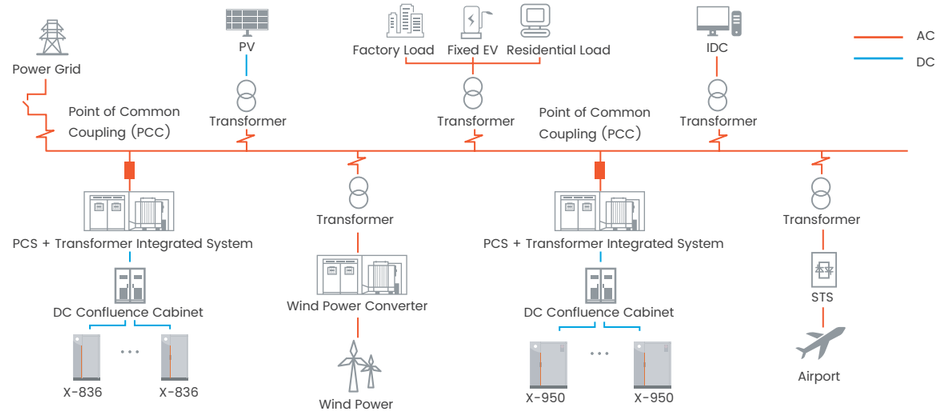
Flexible Deployment

- Supports side-by-side parallel connection of multiple units
- Pre-installed design reduces on-site construction and commissioning time

Commercial & Industrial Energy Consumption | Data Center | Microgrid | Power supply in remote areas | Zero-Carbon ParkCharging | PV–Storage–Charging Integration

Model	X-836	X-950
DC Side Parameters		
Cell Parameter	LFP 3.2V/314 Ah	LFP 3.2V/91.5 Ah
Battery Capacity	836kWh	948kWh
Nominal Voltage	1331.2V	1152V
Battery Voltage Range	1164.6 - 1497.6V	900 - 1368V
Rated Power	418kW(0.5P@25℃)	474kW(0.5P@25℃)
Rated Current	314A	137A*3
System Parameters		
Protection Level (IP Rating)	IP55	
Operating Temperature	-30℃ - +50℃	
Operating Humidity	≤95%	
Maximum Operating Altitude	3000m	
Thermal Management System	Liquid-Cooling	
Fire Suppression System	Container-Level Aerosol Explosion Venting	
Communication Interface	CAN,RS485,Ethernet (reserve)	
Standards & Certifications	UL9540*, UL1973*, UL9540A*, NFPA68*, IEC62477*, IEC61000*, IEC63056*, IEC62619*, IEC60730*, UN3480*	UL9540*, UL1973*, UL9540A*, NFPA68*, NFPA69*, UN3480*, IEC62477*, IEC61000*, IEC63056*, IEC62619*, IEC60730*, IEC62620*, IEC62933*, IEC60529*
Dimensions (W×D×H)	1400×2400×2420mm	2070×2320×2738mm
Weight	8t	9.5t

* Certification in progress



GOTION EDGE X: AC Integrated Energy Storage Solution



All-in-one
Easier for on-site installation

Internal Bus Configuration
Lowers LCOS by 2%

Modular design
O&M efficiency up

High efficiency
Liquid cooling, 30% lower losses

Product Strengths

High Efficiency and Flexibility

- High-efficiency conversion, maximum system RTE ≥ 91%
- Liquid cooling, 30% lower losses
- Rapid response, supports black start

Flexible Deployment

- Side-by-side parallel connection of multiple units
- Reduces footprint by 27.9%
- All-in-one design for easy pre-installation, commissioning, and maintenance

Safe and Reliable

- Three-level overcurrent protection for precise, staged shutdown to minimize damage
- Tier-3 fire protection: timely suppression, flame-retardant, and explosion-proof
- Wide operating temperature range: −30°C to 60°C

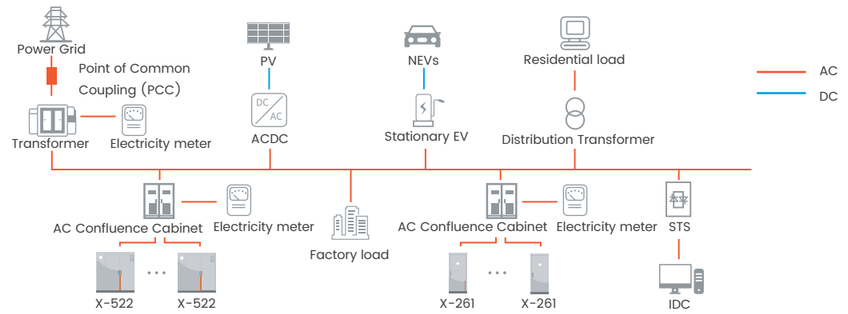
Smart and User-Friendly

- Integrated hardware and software design for BMS/PCS/EMS, enabling efficient collaborative operation
- Liquid cooling ensures uniform heat dissipation, extending system lifespan by 20%
- Remote intelligent wireless operation, supporting remote upgrades

Commercial & Industrial Energy Consumption | Data Center | Microgrid | Power supply in remote areas | Distribution-Level BESS | Solar Storage Charging

Model	X-261		X-522	
Battery				
Cell Type	LFP 3.2V/314 Ah			
Battery Capacity	261kWh	261kWh	522kWh	522kWh
Nominal Voltage	832V			
Nominal Voltage	728V - 936V			
AC Side Parameters				
Rated Power	125kW			
Maximum Power	137.5kW			
Current Harmonics	<3% (Rated power)			
DC Component of Current	<0.5%			
Rated Grid Voltage	480V (-12% - +10%)	400V (-15% - +15%)	480V (-12% - +10%)	400V (-15% - +10%)
Rated Current	150A	180A	150A	180A
Power Factor	>0.99 (Rated power)			
Rated Grid Frequency	60Hz	50Hz/60Hz	60Hz	50Hz
Grid Frequency Range	55Hz - 65Hz	50Hz/60Hz±2.5Hz	55Hz - 65Hz	45Hz - 55Hz
System Parameters				
Protection Level (IP Rating)	IP55			
Operating Temperature	-30°C - +50°C	-25°C - +50°C	-30°C - +50°C	
Operating Humidity	≤95%			
Maximum Operating Altitude	4000m			
Thermal Management System	Liquid-Cooling	Liquid-Cooling +Air-Cooling	Liquid-Cooling	
Fire Suppression System	PACK-Level Aerosol Container-Level Aerosol Explosion Venting			
Communication Interface	4G,RS485,Ethernet(reserve)			
Standards & Certifications	UL9540*, UL1973*, UL1741*,UL9540A*, NFPA68*,UN3480*	IEC62477,IEC61000, IEC63056,IEC62619, IEC60730,UN3480	UL9540*,UL1973*, UL1741*,UL9540A*, NFPA68*,NFPA69*, UN3480*	IEC62477*,IEC61000*, IEC63056*,IEC62619*, IEC60730*,UN3480*
Dimensions (W×D×H)	1120×1350×2420mm		1900×1400×2420mm	
Weight	3.5t	2.6t	8t	

* Certification in progress



GOTION EDGE : Grid-connected/off-grid Seamless Switching ESS



Standardized design
Easier for on-site installation

AC/DC confluence
Low 2% LCOS

Flexible access
On/of-grid and Multi-source fusion

High efficiency
Liquid cooling, 30% lower losses

Product Strengths

High Efficiency and Flexibility

- High-efficiency conversion, maximum system RTE ≥ 91%
- Quickly disconnect from the power grid (<20ms)
- Active/passive on-grid and off-grid switching

Flexible Deployment

- Side-by-side parallel connection of multiple units
- 27.9% reduction for land use
- Integrated design with pre-installation and commissioning for convenient O&M

Safe and Reliable

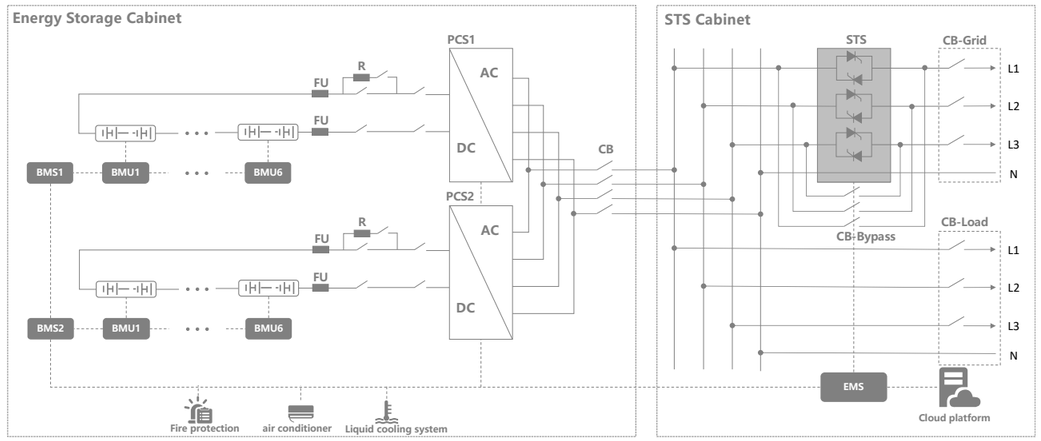
- Three-level overcurrent protection, with graded precise shutdown to reduce losses
- Three-level fire safety , prompt firefighting, eliminating fire and explosion hazards
- Ultra-wide temperature range operation (-30~60℃)

Smart and User-Friendly

- Integrated hardware and software design for BMS/PCS/EMS, enabling efficient collaborative operation
- Liquid-cooled thermal dissipation, 20% longer lifespan perform
- Remote intelligent wireless operation, supporting remote upgrades

Microgrid · Date Center · Industry and commerce · Power supply in remote areas · Distribution transformer area BESS · Solar Storage Charging

Model	X-250	
AC Side Parameters		
Rated Grid Voltage	480V	
Rated Power	250kW	
Maximum Power	275kW	
Rated Current	300A	
Maximum Current	330A(1.1 multiples)/360A(1.2 multiples/1min)	
Connection	3P+N+PE	
Power Factor/Adjustable Range	>0.99(Rated Power)/-1~+1	
Voltage Range	-12% ~ +10%	
Rated Frequency	60Hz	
Allowable Frequency Deviation	±3Hz	
Charge And Discharge Conversion Time	<20ms	
Voltage Range(PCS)	700~1000Vdc	
Number of Separate DC Inputs	2	
DC Side Parameters		
Cell Type	LFP 3.2V/314Ah	
Rated Energy	314Ah	
Rated Capacity	522kWh(1P260S*2)	
Running Voltage Range	728~936V	
Charge and discharge rate	≤0.5P	
System Parameters		
	STS Cabinet	BESS Cabinet
Cooling Method	Liquid	Liquid
Protection Level	IP54	IP55
Dimensions(W×D×H)	950mm x 1100mm x 2200mm	2350mm × 1400mm × 2380mm
Weight	≈700kg	≈8t
Working Humidity	0%~95%	0%~95%
Working Temperature	-30℃ ~60℃ (> 50℃ Power Decline)	-30℃ ~50℃
Maximum Operating Altitude	4000m(> 2000 Power Decline)	4000m(> 2000 Power Decline)
Communication Interface	RS485； Ethernet； CAN	RS485； Ethernet； CAN
Standards & Certifications	UL9540, UL1973, UL1741, UL9540A, NFPA68, NFPA69, UN3480	



GOTION EDGE All-In-One Mobile ESS



High-Power Charging Hub

Megawatt-level power for mining trucks, electric excavators, and charging stations

Distribution Grid Upgrade

Integrated fix for network capacity, power quality, and voltage issues

Emergency Power Supply

Rapid, temporary electricity for remote sites or disaster response

Wind-Solar-Storage Integration

Smooths renewable output and stabilizes plant power

Product Strengths

Environmental Intelligence Meets Safety

- Smart sensing ensures optimal cell temperatures
- Pack and system-level fire suppression for reliable protection

Portable & Ready Anytime

- Lightweight, compact design for fast, flexible deployment
- Ideal for mobile and emergency power needs

Data-Powered Analytics

- Analyzes voltage, temperature, and resistance in real time
- Monitors system health through key indicator tracking

One Interface, Every Connection.

- Standardized industrial ports for AC/DC input and output
- Plug-and-play design simplifies operation—no manual wiring needed

Model	ESD704-05P1267	ESD704-05P850	ESD844-05P1267
DC-Side Parameters			
Cell Capacity	LFP-300Ah		
Nominal Energy	1267.2kWh	844.8kWh	1267.2kWh
Nominal Voltage	704Vdc		844.8Vdc
Recommended Voltage Range	616V-792Vdc		739.2V-950.4V
Maximum Charge/Discharge Rate	0.5P@25°C		
AC-Side Parameters			
AC-Side Voltage	400V (-15% ~ 15%)		
Rated Grid Frequency	50Hz/60Hz		
Rated Power	500kW	100kW	
Charge/Discharge Parameters			
Charging Method / Power	AC Charging Port: 500 kW DC Charging Ports: 180 kW*2	AC Charging Port: 100kW DC Charging Ports: 180kW*2	AC Charging Port: 100kW DC Charging Ports: 180kW*4
Discharging Method / Power	AC Discharging Port: 500kW	AC Discharging Port: 100kW DC Discharging Ports: 160kW*2	AC Discharging Port: 100kW DC Discharging Ports: 500kW
Environmental Parameters			
Storage Temperature	-30°C ~ 60°C		
Operating Temperature	-25 ~ 45°C		
Operating Humidity	≤ 95%		
Altitude Rating	<3000m		
Structural Parameters			
Ingress Protection Rating (IP Rating)	IP54		
Cooling Method	Liquid-Cooling		
Communication Method	CAN, RS485, Ethernet, 4G		
Fire Suppression System	PACK-Level Submerged Fire Suppression +Aerosol Fire Extinguishing System		
China Compliance	GB/T36276, GB/T34120		
Dimensions (W×D×H)	4000×2438×2896mm		
Weight	18t	14t	18t

Gotion Navy Cube



Power Booster
Doubles output when grid input is limited, meeting high-current loads

Diesel Genset Companion
Hybrid operation works in tandem with diesel generators

Emergency Power Supply
Rapid, temporary electricity for remote or outage scenarios

Wind-Solar-Storage Hybrid
Smooths renewable output and stabilizes plant power

Product Strengths

5,000 Cycles, Zero Worries
- In-house high-capacity cells deliver 5,000+ cycle life for long-term reliability

Protection at Every Level
- Tiered fuse design isolates faults precisely, minimizing system loss

Seamless Generator Backup
- Integrates with diesel generators and auto-switches during low storage conditions

Cool Under Pressure
- Smart BMS+EMS and modular piping ensure uniform system-wide temperature control

Plug It In. Power It Up
- Modular, compact design with plug-and-play setup and multi-unit scalability

Efficient Power, Remote Reliability
- Three-level topology with cloud-edge coordination for remote monitoring and fault prediction

Model	ESD704-067P422	ESD704-067P633
Battery		
Cell Parameter	300Ah LFP(LiFePO4)	
Capacity	422 kWh	633 kWh
voltage Range	616-792V	
Rated Volioge	704V	
Cycling Life	≥5000	
AC Ouput		
Vollage Range	380/400 Vac(±15%)	
Max.Continuous Power	250 kW	424 kW
Max. Discharge Current	378A	642A
Overload Capabilities	110% for 10minutes, 120% for 10 seconds	
Frequency	50/60 Hz	
Power Factor	-1 to 1	
Output Harmonics	<3%	
AC Input		
Voltage Range	380/400Vac(±15%)	
Frequency	50/60 Hz	
Max.Charge Current	Fast: 378A	Fast: 642A
	Float: 181A	
Software Functions		
Peak Load Shifting	✓	
Off-Grid/On-Grid Applications	✓	
Simultaneous Charge /Discharge Function	✓	
PV Integration	Optional	
System Parameters		
Isolation Mode	Includes built-in isolation transformer	
System Connection	3phase 4wire+E	
Communicafion Interfaces	CAN, Ethernet, RS-485	
Operating Temperature	Charging: 0°C~50°C(32°F~122°F)	
	Discharging: -20°C~50°C(-4°F~122°F)	
Operating Modes	Stand-alone, Genset-BESS hybrid	
Response Time	<20ms	
Cooling Method	Liquid Cooling	
Fire Protection	Pack-level immersion fire protection with ethylene glycol, cabin-level submersion fire extinguishing system with FK-5-1-12 and water	
Ingress Protedion (P)Grade	P54(cabinet), IP67(pack)	
Anti-Corrosion Grade	C4/C5	
Parallel Capabilies	2 units	
Dimensions(W×H×D)	2.99×2.59×2.44m	2.99m×2.90m×2.44m
Weight	9500kg(-20944 Lbs)	12000kg(-26455 Lbs)
Compliance	CE, IEC 62619, UN 38.3, UN 3536, GB/T 36276-2018, GB/T 34120	



Product Strengths

Trusted Safety

- LFP batteries with triple-layer protection at cell, module, and system levels for lasting reliability

Modular Capacity

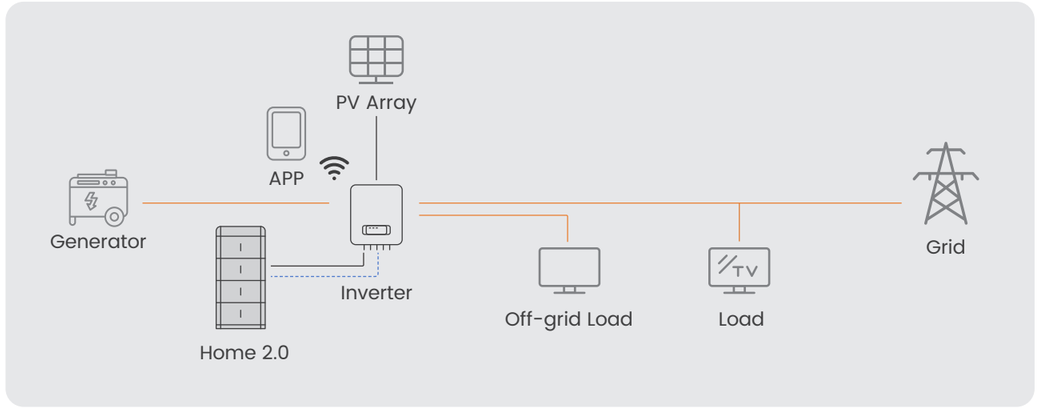
- Flexible 5–20 kWh range to meet evolving home energy needs, with expansion-ready design

Stackable & User-Friendly

- Compact form factor for easy transport, fast setup, and plug-and-play installation

Outdoor-Ready Protection

- IP65-rated enclosure supports durable, all-weather operation



Model	HSD51.2-02C5L	HSD51.2-02C10L	HSD51.2-02C15L	HSD51.2-02C20L
Product Picture				
Electrical Parameters				
Cell Capacity	LFP-100Ah			
Nominal Energy	5.1kWh	10.2kWh	15.3kWh	20.4kWh
Nominal Voltage	51.2V			
Recommended Voltage Range	43.2V~56.8V			
Maximum Charge/ Discharge Rate	2.5kW	5kW	5kW	5kW
Environmental Parameters				
Operating Temperature	-20°C ~45°C			
Operating Humidity	5%-95%			
Altitude Rating	≤3000m			
Structural Parameters				
Ingress Protection Rating (IP Rating)	IP65			
Cooling Method	Natural Cooling			
Communication Method	CAN, RS485			
US Compliance	UL 9540A, UL 1973			
EU Compliance	IEC 62619			
Shipping Compliance	UN 38.3			
Dimensions (W×D×H)	705×239×528mm	705×239×846mm	705×239×1164mm	705×239×1482mm
Weight	≈ 67kg	≈ 120kg	≈ 170kg	≈ 220kg
PCS compatibility	Solis, Growatt, Megarevo, Ligoo, SAJ			

1. Test conditions (usable energy): 95% depth of discharge (DoD), 0.5P rate charge & discharge at 25°C
2. Charge/discharge derating occurs when the operating temperature below 5°C or over 45°C
3. The weight of the battery module is based on the real object, and there may be a tolerance of 2%.
4. Output power may be affected by altitude.



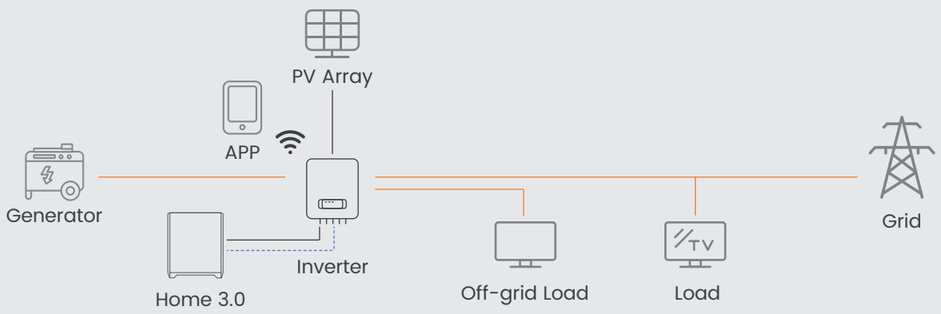
Product Strengths

Long-Lasting Performance
- Over 10,000 charge cycles with high-capacity cells under standard conditions

High Power Output
- 8kW max charging/discharging power

Safe & Reliable
- Rated IP65 protection, ideal for outdoor installation

Broad Compatibility
- Seamlessly integrates with mainstream PCS communication protocols



Model	HSD51.2-05P16L
Product Picture	
Electrical Parameters	
Cell Capacity	LFP-314Ah
Nominal Energy	16kWh
Nominal Voltage	51.2V
Recommended Voltage Range	43.2V~57.6V
Maximum Charge/Discharge Rate	8kW
Environmental Parameters	
Operating Temperature	-20°C~45°C
Operating Humidity	5%-95%
Altitude Rating	<3000m
Weight	≈ 125kg
Structural Parameters	
Ingress Protection Rating (IP Rating)	IP65
Cooling Method	Natural Cooling
Communication Method	CAN, RS 485
EU Compliance	IEC 62619*, IEC 63056*, EMC*
Shipping Compliance	UN 38.3
Dimensions (W×D×H)	667×223×728mm
PCS compatibility	Deye, Solis, Growatt, Goodwe, Luxpower, Pylontech, Sofar, SRNE, Soroups

1. Test conditions (usable energy): 95% depth of discharge (DoD), 0.5P rate charge & discharge at 25°C
2. Charge/discharge derating occurs when the operating temperature below 5°C or over 45°C
3. The weight of the battery module is based on the real object, and there may be a tolerance of 2%.
4. Output power may be affected by altitude.

* Certification in progress

Gendome Power



24kW | 30kWh All-in-One Energy Storage Solution

Durability: Long-Lasting Performance

- 6,000-cycle LiFePO4 cells deliver 10+ years of service

Flexibility: Modular Configuration

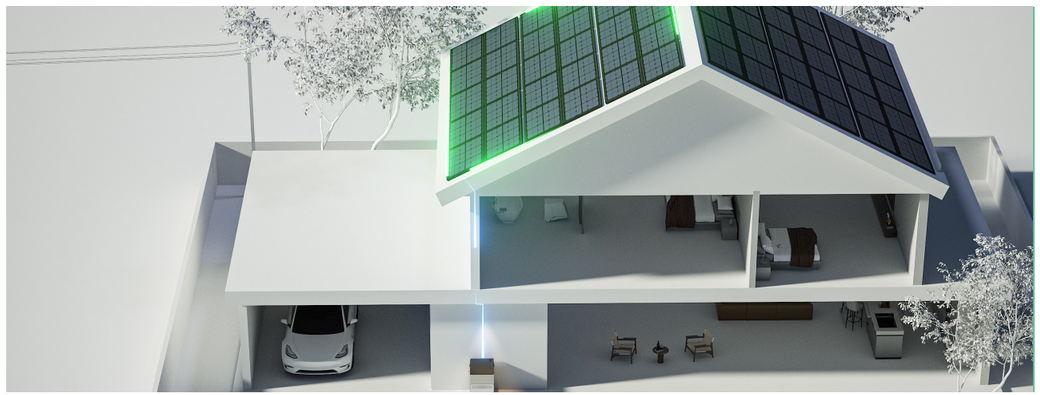
- Smart BMS + EMS with modular cooling loops keeps system temperatures uniform

Convenience: All-in-One Integration

- IP65 low-profile, fully integrated enclosure—self-contained and space-saving

Independence: Grid-Independent Energy

- PV-plus-storage design provides reliable off-grid power, even in remote areas



Model	Gendome Power
Product Picture	
Electrical Parameters	
Product Name	Gendome Power
Cell Chemistry	LFP-100Ah
Energy Capacity	30.72kWh
Rated Output Voltage	120V/240V
Nominal Voltage	307.2Vdc
Recommended Voltage Range	259.2V-345.6Vdc
Nominal Charging Current	50A
Max Charging Current	95A
Max Discharging Current	95A
Nominal Power	24kW
Environmental Parameters	
Charging Temperature Range	0°C~53°C
Operating Temperature Range	-20°C~58°C
Relative Humidity	5%~95%
System Parameter	
Water-Resistant	IP65
Cooling Type	Fan Convection
Altitude	<3000m
Dimensions (W×D×H)	665×820×1050mm
Weight	390±2kg
Communication Port	CAN, RS485
Power Systems Certificate	UL1973, UL9540, UL9540A, UN 38.3

Charging and discharging derating occurs when the operating temperature is below 5°C or above 45°C.

Charge at a constant current of 0.5C in a 25°C ±2°C environment until the voltage of any single cell reaches 3.6V, then stop charging and let it stand for 30 minutes. Subsequently, discharge at a constant current of 0.5C until the voltage of any single cell reaches 2.7V, then stop discharging.

Gotion Marine Energy Storage Products



- Supplying power to new-energy vessels

- Port battery-swap stations achieve peak-shaving and valley-filling to boost revenue

Product Strengths

High Safety & Long Lifespan

- 10,000+ cycle life (0.5P/0.5P, 90% DOD, 70% EOL)
- A60 fire rating with dual battery system (primary + backup)
- Multi-layer alarms and protection ensure reliable operation

High Power, High Impact

- 0.5P charge/discharge rate, 628A×2 output current
- Max output power up to 482.3 kW×2

Smart Visualized Management

- Onboard interface for real-time status
- Cloud platform integration with remote
- APP/web monitoring

Fast Energy Replenishment

- 10-minute battery swap, 2-hour full recharge
- Standard 20-ft container, compatible with major swap stations

Model	ESD768-05P1929
Electrical Parameters	
Cell Capacity	LFP-314Ah
Nominal Energy	1929.2kWh
Nominal Voltage	768V
Recommended Voltage Range	672V-864V
Maximum Charge/Discharge Rate	0.5P
Maximum Charging Power	964.6kW(0.5p)
Environmental Parameters	
Storage Temperature	-30°C~60°C
Operating Temperature	-30°C~55°C
Operating Humidity	‹95%
Altitude Rating	‹3000m
Structural Parameters	
Ingress Protection Rating (IP Rating)	Wind and Rain Resistant
Cooling Method	Liquid-Cooling
Communication Method	CAN, RS 485, TCP
Communication Protocol	CAN, Modbus-TCP/IP, Modbus RTU, IEC 104
Fire Suppression System	A60 fire-rated bulkhead, heptafluoropropane
China Classification Society Certification	CSS
Dimensions (W×D×H)	6058×2438×2896mm
Weight	≈26t

Mobile Deployable Battery Power System





Uses a standard forklift with a custom rig to exchange battery packs in 5 minutes; the onboard PCS converts wind, solar, and stored green power to recharge packs, cutting build and operating costs while giving electric heavy-duty trucks a fast, efficient energy supply.

Product Strengths

Deploys Anywhere

- No infrastructure or construction required—quickly deployable across diverse environments

Lightning-Fast Swapping

- 5-minute battery swap cycles enable rapid energy replenishment

Power That Pays Off

- Mobile rack-based stations cost just 1/4 of traditional swap station setups

Smart Energy Scheduling

- Cloud platform enables real-time optimization, touchless payments, and near-instant scheduling

Built for All Weather

- IP68-rated for safe, reliable operation in any climate or condition

Model	DLL452kWh
Electrical Parameters	
Cell Capacity	LFP-340Ah
Nominal Energy	452.6kWh
Nominal Voltage	665.6Vdc
Recommended Voltage Range	520-748.8Vdc
Maximum Charge/Discharge Rate	0.88C@25°C
Continuous Charge/Discharge Rate	0.73C@25°C
Peak Discharge Current	750A
Peak Discharge Power	550kW
Rated Charging Port	600A
Rated Swapping Port	600A
Cycle Life	4000 @80%SOH
Calendar Life	15 years
Environmental Parameters	
Storage Temperature	-30°C~60°C
Operating Temperature	-30°C~45°C
Operating Humidity	≤ 95 %
Cooling Method	Liquid-Cooling/Natural Cooling
Altitude Rating	≤ 3000m
Ingress Protection Rating (IP Rating)	IP68
Communication	
Communication Method	CAN
Communication Protocol	27930-2023
Structural Parameters	
Dimensions (W×D×H)	2376×834×1880mm
Weight	≈3.8t

Eplvs Smart Mobile Charger



The self-driving Eplvs Smart Mobile Energy-Storage Charging Pile integrates storage and fast charging in one unit, delivering on-the-spot power for EVs anywhere. Its intelligent management system streamlines operations, lowers costs, and offers customizable solutions for diverse customer needs.

Airport

Railway Station

Expressway Service Area

Business Park

Paid Parking

Logistics Park

Residential District

Public Parking

Product Strengths

Smarter Safety, Longer Life

- Advanced charge/discharge control improves efficiency
- Thermal management extends lifespan, with layered protection for full-system safety

Charge in Minutes, Perform for Hours

- High-power fast charging with SiC tech reduces energy loss and boosts output

Autonomous Driving

- Supports optional autonomous modules for unmanned operation
- Reduces maintenance and boosts system utilization

Real-Time Visibility & Updates

- Live system data with early fault alerts OTA (over-the-air) remote updates enable seamless connectivity and control

Model (Mobile Charger)	MEC-R60-184 MEC-R60-184-CE MEC-R60-184-UL	MEC-R120-209 MEC-R150-209-CE MEC-R150-209-UL
Electrical Parameters		
Nominal Energy	184kWh	209kWh
Nominal Voltage	614.4V	665.6V
Charging Voltage Range	200V-1000V(CE/UL) 200V-750V(GB)	200V-1000V
Rated Output Voltage	500V	
Maximum Charge/Discharge Power	60kW	150kW(CE/UL) 120kW(GB)
Maximum Charging Current	150A	250A
Connector Type	CCS1 (native), NACS via adapter (optional)	CCS1 (native), NACS via adapter (optional)
Environmental Parameters		
Operating Temperature	-20°C~45°C	
Operating Humidity	0-95%	
Ingress Protection Rating (IP Rating)	IP54	
Cooling Method	Natural Cooling	
Altitude Rating	<3000m	
Drive Parameters		
Maximum Speed	5km/h	
Maximum Gradeability	8%	
Maximum Obstacle Clearance Height	70mm	
Standards & Certifications		
Communication Protocol	CAN, 4G	
US Compliance	UL 1973, UL 9540A, UL 2202	UL 1973*, UL 9540A*, UL 2202*
EU Compliance	IEC 62619, IEC 61851	
Shipping Compliance	UN38.3	
Dimensions (W×D×H)	1054×2100×1515mm	990×2270×1380mm
Weight	≈2.1t	≈2.3t

* Certification in progress

Gendome

Smart Portable Power Station



Model	Home 3000	Home 3000 Pro
Product Picture		
Product Name	Home 3000 Portable Power Station	Home 3000 Pro Portable Power Station
Capacity	3072Wh	3072Wh
AC Output	3000W Total, 6000W surge	3600W Total, 7200W surge
Cell Chemistry	EV-Proven LiFePO4	EV-Proven LiFePO4
AC Charge	1800W Max, 120V,15A (US)	1800W Max, 120V,15A (US)
Solar Charge	1500W Max, 12-75V/45A	2400W Max, 12V~150V/25A
Ports	Type-Cx2 USB-Ax4 | RV | DC5521 | Wireless Charging	Type-Cx2 (100W/PD3.0) USB-Ax2 | DC7909x1
Dimensions (W×D×H)	560×230×543mm/22.0×9.1×21.4in	574×355×330mm/22.6×14.0×13.0in

Model	Go 300	Go 800
Product Picture		
Product Name	Go 300 Portable Power Station	Go 800 Portable Power Station
Capacity	288Wh	768Wh
AC Output	300W Total, 600W surge	800W Total, 1600W surge
Cell Chemistry	EV-Proven LiFePo4	EV-Proven LiFePO4
AC Charge	Type C Charging 140W	700W Max, 120V (US)
Solar Charge	200W Max, 12-30V/10A	240W Max, 12-60V/12A
Ports	Type-Cx2 (140W/PD3.1)USB-Ax2, 7909 Portx160W Max,Wireless Charging	Type-Cx2(100W/PD3.0)USB-Ax2, Wireless Charging,Cigarette
Dimensions (WxDxH)	210×200×158mm/8.27×7.87×6.22in	248×248×253mm/9.76×9.76×9.96in

Our Awards iF reddot

Sales Network BEST BUY Alibaba.com Walmart amazon

Model	Micro 30	IceVoyager
Product Picture		
Product Name	Portable Power Bank	Portable IceVoyager
Capacity	15000mAh	246Wh
Output	22.5W Max	100W Max
Cell Chemistry	EV-Proven LiFePO4	EV-Proven LiFePO4
Connector Type	USB-C/ USB-A	USB-C/XT60
Included Components	1x15000mAh Power Bank, Type-C Cable	1x246Wh Portable IceVoyager, XT60 Cable
Special Features	Magnetic Charging	80 Ice Cubes in 10 Mins
Ports	2C1A USB-C IN/OUT PD3.0	1C1A USB-C IN/OUT PD3.0 100W
Dimensions (W*D*H)	47*50*156mm/ 1.8*1.96*6.1in	239*315*406mm/9.41*12.40*15.98in
Net Weight	1.03lbs/0.467kg	26.46lbs/12kg

Model	Solar 200	Solar 36
Product Picture		
Product Name	Solar 200 Solar Panel	Solar 36 Solar Panel
Connector Type	DC2050 to MC4	USB-C/ USB-A
Included Components	1x 200W Solar Panel, MC4 Solar Charging Cable	1x36W Solar Charger, 1x USB-A to USB-C Cable, 2x Carabiner
Cell	High Eficiency silicon (sunpower)	High Eficiency silicon (sunpower)
Transformation Efficiency	> 23%	>23%
Max Power	200W Max	36W Max
Water-Resistant	IP68	IP68
Dimensions (unfolded)	1249×1516×25mm /49.2×59.685×0.984in	895×280×12.5mm/33.3×11×0.49in
Dimensions (folded)	330×430×50mm/13.0×16.9×2.0in	198*280×30.5mm/7.8×1×1.2in
Net Weight	9.55lbs/4.33kg	1.8lbs/0.82kg

Control Comes Easy

Now with Gendome App, you can monitor and adjust your electricity in real-time, set scheduled recharging to help you save energy bills, or even make Gendome part of your smart home setup, wherever you like.



Download APP

works with the Google Assistant

amazon alexa

Battery Cells

LFP Energy Storage Cell



IFP20100140A-27Ah



IFP50160116-102Ah



IFP27175200A-100Ah



IFP81175200-300Ah

Model	IFP20100140A-27Ah	IFP50160116-102Ah	IFP27175200A-100Ah	IFP81175200-300Ah
Electrical Parameters				
Cell Type	LFP-30Ah	LFP-102Ah	LFP-100Ah	LFP-300Ah
Rated Voltage	3.2V			
Voltage Range	2.0V~3.65V	2.5V~3.65V	2.0V~3.65V	2.5V~3.65V
Charge/Discharge Rate	1C@25°C	0.2C@25°C	0.5C@25°C	
Cycle life (25°C)	≥3000	≥6000	≥8000	≥8000
Conditions				
Storage Temperature	-30°C~60°C			
Charge Temp Range	0°C~55°C			
Discharge Temp Range	-30°C~60°C			
Structural Parameters				
Dimensions (T×W×H)	21.3×100.4×144.9mm	49.8×160.8×118.5mm	27.2×175.4×206.1mm	81.0×175.4×202.5mm
Weight	≈615g	≈2005g	≈2022g	≈5998g
Standards & Certifications				
China Compliance	GB 38031	/	GB/T 36276	GB/T 36276
US Compliance	UL 9540A, UL 1642	UL 1973, UL 9540A, UL 1642	UL 1973, UL 9540A	UL 1973, UL 9540A
EU Compliance	IEC 62619			
Shipping Compliance	UN 38.3			

Battery Cells

LFP Energy Storage Cell



IFP72175207-314Ah



IFP81175200-330Ah



IFP72288216-588Ah

Model	IFP72175207-314Ah	IFP81175200-330Ah	IFP72288216-588Ah
Electrical Parameters			
Cell Type	LFP-314Ah	LFP-330Ah	LFP-588Ah
Rated Voltage	3.2V		
Voltage Range	2.5V~3.65V		
Charge/Discharge Rate	0.5P@25°C		0.25P@25°C
Cycle life (25°C)	≥12000	≥12000	≥12000
Conditions			
Storage Temperature	-30°C~60°C		
Charge Temp Range	0°C~55°C		
Discharge Temp Range	-30°C~60°C		
Structural Parameters			
Dimensions (T×W×H)	71.65×174.8×207.1mm	81.0×175.4×202.5mm	72.5×288×216.3mm
Weight	≈5630g	≈6160g	≈10450g
Standards & Certifications			
China Compliance	GB/T 36276	GB/T 36276	GB/T 36276*
US Compliance	UL 1973, UL 9540A, UL 1642	UL 1973, UL 9540A	UL 1973*, UL 9540A*
EU Compliance	IEC 62619, IEC 62620	IEC 62619	IEC 62619*
Shipping Compliance	UN 38.3	UN 38.3	UN 38.3*

* Certification in progress

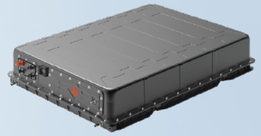
Standard Pack



EPD51-05P16



EPD51-05P20

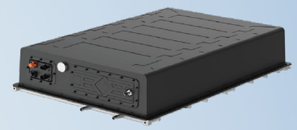


EPD140-05P42

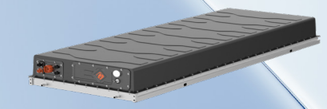
Model	EPD51-05P16	EPD51-05P20	EPD140-05P42
Electrical Parameters			
Cell Capacity	LFP-314Ah	LFP-100Ah	LFP-300Ah
Nominal Energy	16.0kWh	20.48kWh	42.2kWh
Nominal Voltage	51.2V	51.2V	140.8V
Voltage Range	44.8V~57.6V	40.0~58.4	110V~158.4V
Maximum Charge/Discharge Rate		0.5P@25°C	
Maximum Charging Power	8.0kW(0.5P)	10.2kW(0.5P)	21.1kW(0.5P)
Environmental Parameters			
Charging Temperature		0°C~55°C	
Discharging Temperature		-30°C~60°C	
Operating Humidity		≤ 95 %	
Cooling Method		Liquid-Cooling	
Installation Type		Indoor	
Communication Method		CAN	
Ingress Protection Rating (IP Rating)		IP67	
Structural Parameters			
Dimensions (W×D×H)	846×448×240mm	390×975×245mm	787mm×1085mm×235mm
Weight	≈120kg	≈160kg	≈ 313kg
Standards & Certifications			
China Compliance	/	GB/T 36276	GB/T 36276
US Compliance	/	UL 1973, UL 9540A	UL 1973, UL 9540A
Shipping Compliance	/	UN 38.3	UN 38.3
China Classification Society Certification	CCS	/	/

* Certification in progress

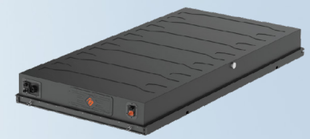
Standard Pack



EPD166-05P52



EPD332-05P104



EPD332-05P195

Model	EPD166-05P52	EPD332-05P104	EPD332-05P195
Electrical Parameters			
Cell Capacity	LFP-314Ah	LFP-314Ah	LFP-588Ah
Nominal Energy	52.2kWh	104.4kWh	195.6kWh
Nominal Voltage	166.4V	332.8V	332.8V
Voltage Range	130V~187.2V	260V~374.4V	291.2V~374.4V
Maximum Charge/Discharge Rate		0.5P@25°C	
Maximum Charging Power	26.1kW(0.5P)	52.2kW(0.5P)	97.8kW(0.5P)
Environmental Parameters			
Charging Temperature		0°C~55°C	
Discharging Temperature		-30°C~60°C	
Operating Humidity		≤ 95 %	
Cooling Method		Liquid-Cooling	
Installation Type		Indoor	
Communication Method		CAN	
Ingress Protection Rating (IP Rating)		IP67	
Structural Parameters			
Dimensions (W×D×H)	800×1152×237mm	785×2192×240mm	1170×2215×245mm
Weight	≈340kg	≈660kg	≈ 12000kg
Standards & Certifications			
China Compliance	GB/T 36276	GB/T 36276	GB/T 36276*
US Compliance	UL 1973*, UL 9540A*	UL 1973, UL 9540A	UL 1973*, UL 9540A*
Shipping Compliance	UN 38.3	UN 38.3	UN 38.3*

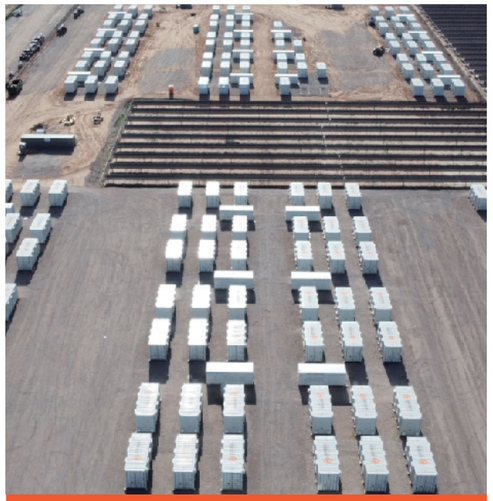
* Certification in progress

Project Cases

Renewable-integrated Storage



◉Florida, USA 250MWh Project



◉Arizona, USA 491MWh Project



◉Chicago, USA 54MWh Project



◉Zhangjiakou, Hebei 60MWh Project



◉Wuhai, Neimenggu 492MWh Project



◉Zhaoyuan, Shandong 191MWh Project



◉Huainan, Anhui 100MWh Project



◉Gaomi, Shandong 51MWh Project



◉Netherlands 21.6MWh Project

Grid-Side/Standalone Storage



◉Huaibei, Anhui 206MWh Project



◉Huanggang, Hubei 205MWh Project



◉Binzhou, Shandong 400MWh Project



◉Chicago, USA 200MWh Project



◉Chongqing, 180MWh Project



◉Weihai, Shandong 350MWh Project



◉Nanjing, Jiansu 200MWh Project



◉Youyu, Shanxi 400MWh Project



◉Enshi, Hubei 152MWh Project



◉Sanmenxia, Henan 200MWh Project



◉Pingdingshan, Henan 200MWh Project

Behind-the-meter (customer-side) Storage



◉Hefei, Anhui 200MWh Project



◉Hefei, Anhui 200MWh Project



◉Huma, Heilongjiang 20MWh Project



◉Chiba, Japan Project



◉Comoros, 10MWh Project



◉Yichun, Jiangxi 198MWh Project



◉Liuzhou, Guangxi 100MWh Project

C&I BESS



◉Hefei Anhui 27Mwh C&I BESS Project



◉Netherlands 2.11MWh C&I BESS Project



◉Japan 5.32MWh C&I BESS Project



◉Zhenjiang Jiangsu 0.78MWh C&I BESS Project



◉HongKong Diesel-Lithium Hybrid Project



◉Mining Sites Mobile BESS Scenarios

Green and Low-Carbon

Green Performance

50.743 million KWh
PV Power Generation in 2024

29.5 KWh
Overall Energy Consumption per Unit Product in 2024

256,310 tons
Greenhouse gas emissions reduction
(256,310 tons of carbon dioxide equivalent) in 2023

16%
Year-on-year decrease of overall energy consumption per unit product in 2024

Zero-Carbon Factory

Achieve zero-carbon operations at all existing and new plants within five years

- Boost line-level energy efficiency, expand renewable-electricity use, and retire outdated production lines
- Hefei's Xinzhan UC plant has pioneered the program, earning CATARC's "Carbon-Neutral Plant Demonstration Project" award in the lithium-battery sector
- Hefei Xinzhan and the Slovakia facility will be first to reach zero-carbon status as planned
- By 2027, every new plant will have full rooftop-PV coverage
- After 2027, carbon-emission intensity will drop sharply, with 100 % of new and upgraded plants powered by green electricity

Supply Chain ESG Strategy

Create safe and risk-free supply chains

Supply chains that uphold human rights

Compliant Supply Chain

Transparent and Traceable Supply Chain

Zero-Carbon Materials Base Plan

Build the world's first zero-cardon anode material factory in Wuhai

2 GW
Planned power generation capacity of the PV energy storage project

40 million KWh
Estimated annual energy output of 4 billion KWh

12.3 tce
Anticipated Standard Coal Equivalent Savings Over 25-Year Operation Life

ESG Strategic Objectives

Planned to
2027
Achieve operational carbon peaking by 2027

Planned to
2040
Achieve operational carbon neutrality by 2040



After-sales Services ★★★★★

Five-star Aftersales Certification(CQC)

Service Mission

- Customer-Oriented
- Professional & Efficient
- Considerate & Responsible

Fast Service

- Respond within 2-6 Hours after the Fault
- Deliver Solutions within 4-8 Hours after the Fault
- Arrive On-site and Solve the Problems within 48-72 Hours after the Fault

Global Service Center

600+ Service Stations

81+ Domestic Self-operated Service Centers

Global Accessory System

100+ Spare Parts Wehouses

22 Overseas Sub-warehoues (Coming Soon in 2025 H2)

Go Innova**tion**

Cherish | Pragmatism | Integrity | Innovation

Disclaimer:
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