

WORLD-CLASS BATTERY MANUFACTURER

Energy Storage System Products and Solutions

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Guangzhou Great Power Energy & Technology Co., Ltd
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GREAT POWER

Stock Code (in China): 300438

Company Vision

To become a global leader in battery storage technology

Company Mission

Making clean energy safer, more stable and accessible

Over \$1.6 billion revenue in 2022

9 production facilities

Covering an area of 1,570,000 m²

Over 10,000 employees

Great Power is a world-class battery manufacturer established in 2001, publicly listed on the stock market in 2015. The company has nearly 25 years of experience specializing in battery manufacturing, energy storage solutions, research, and development.

The company's primary products are Li-ion batteries, which are utilized in various markets such as energy storage, consumer electronics, and power tools.

As a pioneer in manufacturing stationary energy storage system (ESS) batteries, Great Power introduced its first-generation ESS system in 2011. The company offers a comprehensive range of battery products including cells, packs, racks, cabinets, containers, and project integration that meet requirements of all markets, residential, C&I and utility-scale.

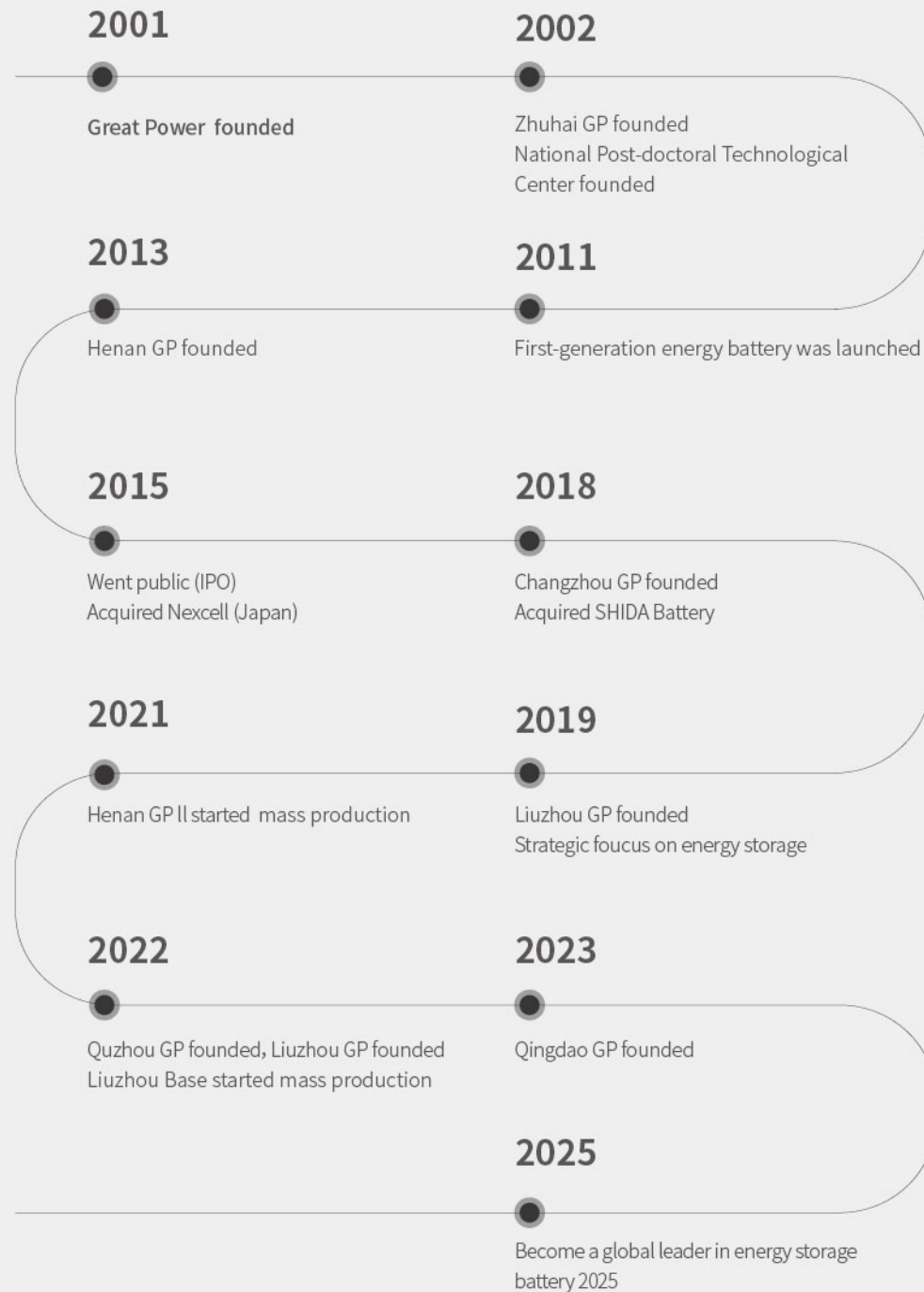
Great Power's products show excellent safety performance, long cycle life and high energy efficiency. According to GII and EESA, Great Power ranked #2 in the global residential ESS market and #5 in the global ESS battery market, respectively in 2022. The company provides energy storage solutions that deliver value to customers across more than 50 countries/areas.

GREAT POWER



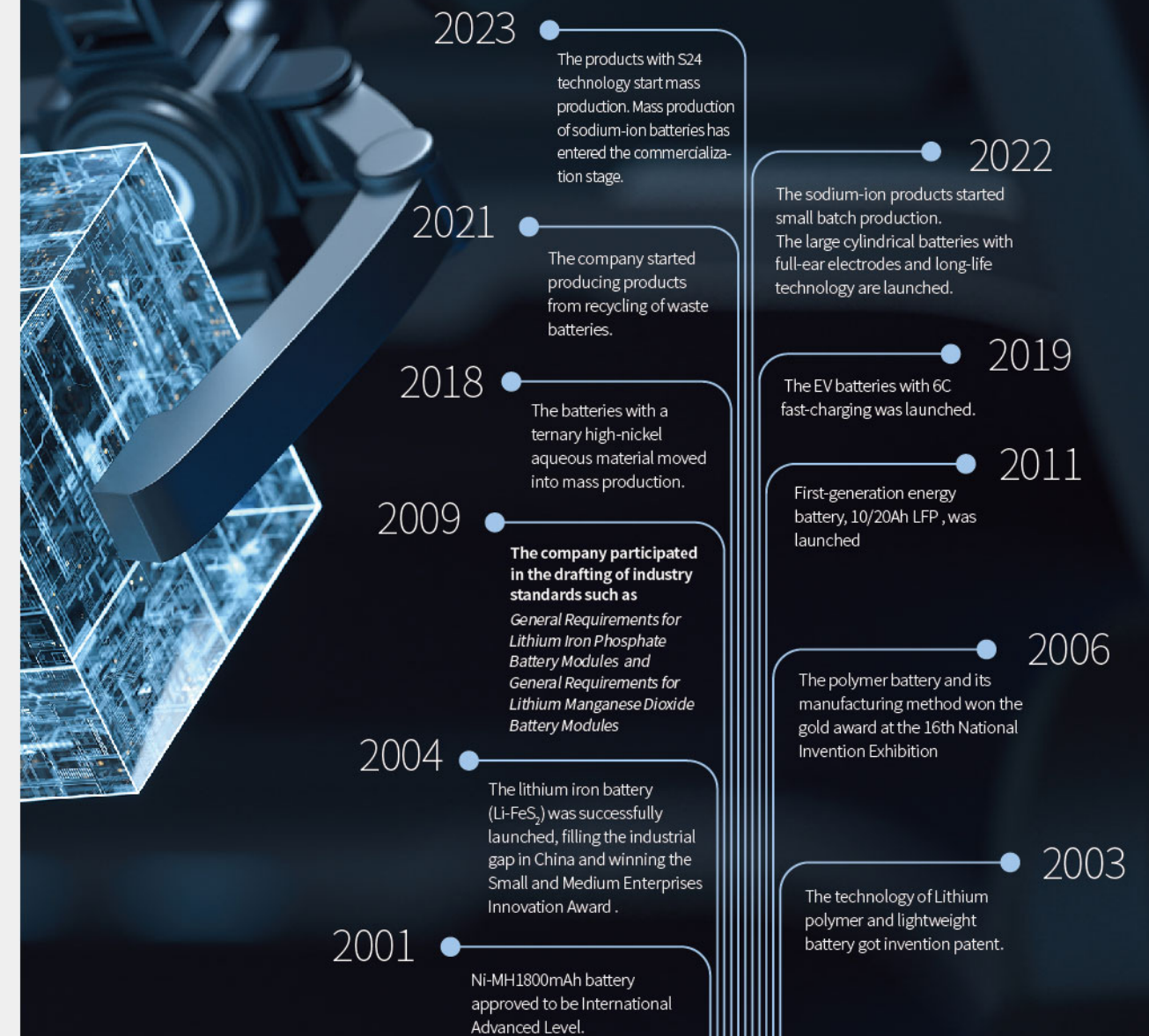
COMPANY MILESTONES

Great Power has been developing steadily for more than 20 years and as of the end of 2023, will have nine production facilities.



TECHNOLOGY MILESTONES

Great Power is born with the genes of technological innovation. We have participated in the drafting of a number of battery industry standards in China.



ACHIEVEMENTS

TOP2 Global residential ESS battery market
TOP5 Global ESS battery market

*The data comes from CNESA/EESA/GGII/ICC

22 years experience in lithium-ion battery technology & manufacturing	50+ countries/areas	0 accidents in installed projects	800K+ sets of energy storage products installed
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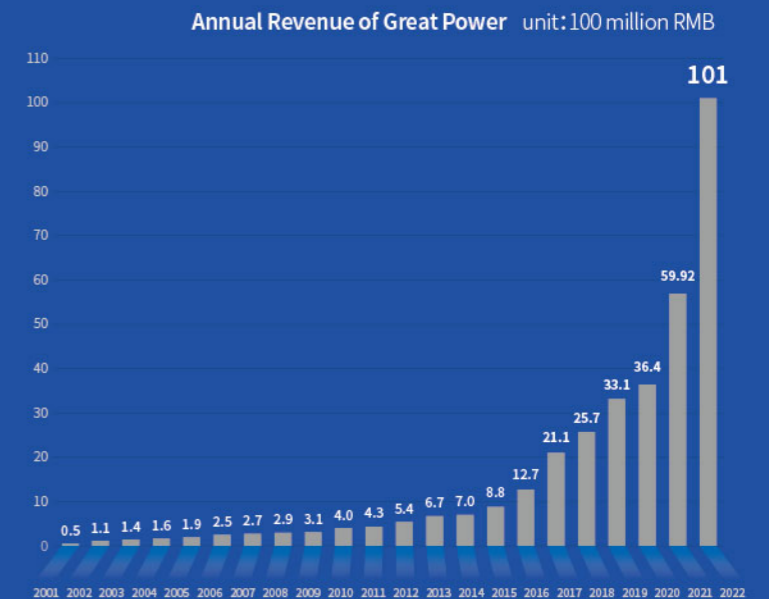
Worldwide Testing and Qualifications

IEC62619	UL1973	UL9540A	UL1642	TUV SUD PPP59044A	NFPA 855
Japan JET	MSDS	RoHS	UN38.3 UN38.3	GB/T36276	EMC, LVD

Great Power is Reliable

Since its founding in 2001, Great Power has generated steady annual growth and profit. We are a company driven by technology innovation.

To achieve continuous quality improvement, we apply best practices and lessons learned from thousands of operating projects.



R&D STRENGTH

- 1 National-level Postdoctoral Research Center

- 2 Provincial-level Research Centers

- 4 Research Institutes

- 1 Testing Center

- 2200+ Engineers

- 10+ Prestigious partner of universities/institutions in the field of electrochemistry



Technology Roadmap

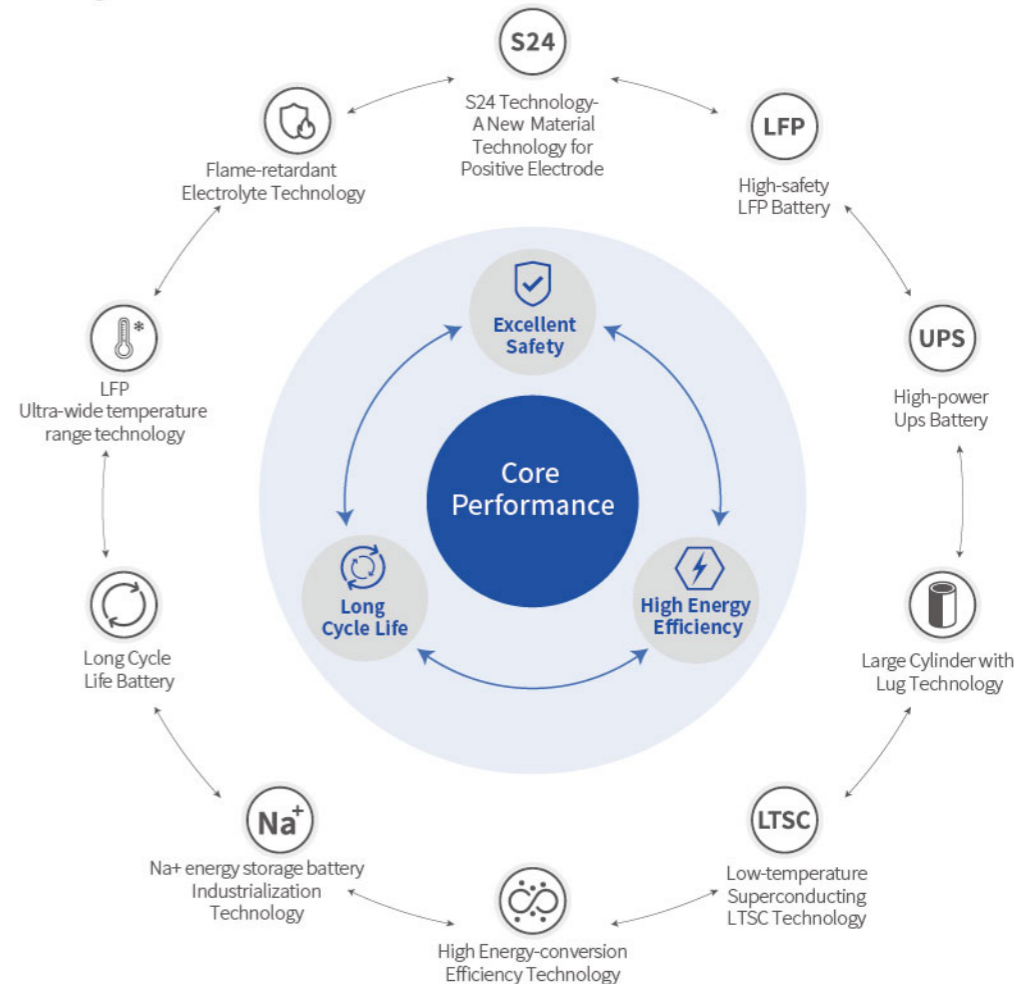
Cells for utility-scale	280Ah in mass production life ≥ 6000@80% 314Ah / 320Ah in mass production life ≥ 8000@70%	280Ah-1P in mass production life ≥ 6000@70%@1P 314Ah / 320Ah with longer cycle life life ≥ 10000@70%	≥ 320Ah in mass production life ≥ 12000@70%
Cells for resident /portable energy storage	50Ah / 72Ah / 100Ah in mass production life ≥ 6000@80% 20Ah cylindrical cells in mass production life ≥ 4000@80%	72Ah in mass production life ≥ 8000@70% 50Ah cylindrical cells in mass production life ≥ 6000@80%	The cells with lower cost, higher capacity and higher charging/discharging rate
Na ⁺ cells	75Ah in mass production life ≥ 3000@80%	91Ah in mass production life ≥ 5000@80%	The cells with higher capacity and longer cycle life
	2023 Year	2024 Year	2025 Year

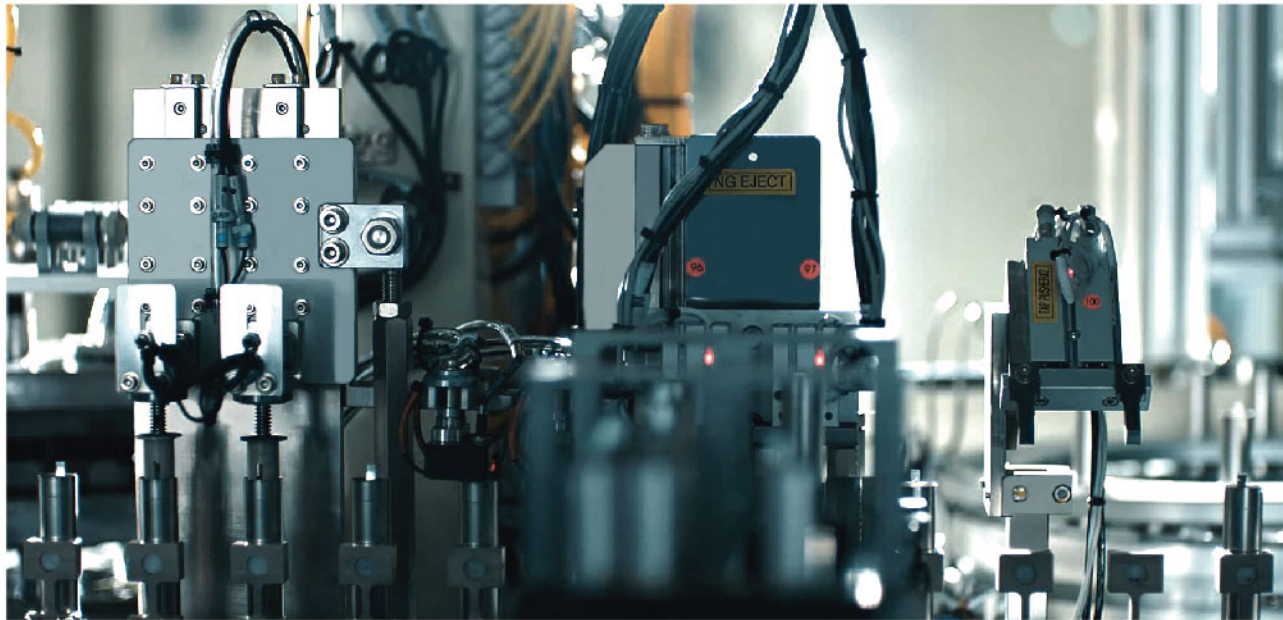
TECHNOLOGICAL ACCUMULATION

Great Power's unwavering pursuit of innovation drives us to prioritize safety and elevate battery performance, setting new standards in energy density, cycle life, and efficiency. Driven by excellence through exhaustive material research, refined structural design, and process enhancements results in superior cell and system construction. Our relentless dedication to progress is evident with 410+ registered and applied patents, including 170+ groundbreaking inventions.

2023 New Technology

- Na⁺ Na+ energy storage battery Industrialization Technology**
 - In layered oxide systems, the energy density has surpassed 150Wh/kg with a cycle life of over 3000 weeks.
 - In polyanion systems, a cycle life of over 6000 weeks has been achieved.
 - Currently, our sodium-ion batteries have entered the commercialization stage.
- Flame-retardant Electrolyte Technology**
 - Patented
 - It makes batteries much safer through enhancing the thermal stability and high-temperature resistance effectively.
- S24 S24 Technology- A New Material Technology for Positive Electrode**
 - The solid content of slurry has broken through 71.5%
 - The battery cycle life has increased by 20%
 - The raw materials used in this technology are environmentally friendly





State of the Art Factories

- Imported globally advanced production lines
- Full coverage of FFU manufacturing environment
- Class 6 manufacturing environment
- Industry leading quality driven by continuous process improvement
- 24-hour monitoring and control of key production processes

Key Processes

Stacking: adopting the industry-leading Z-shaped femtosecond stacking technology, it perfectly solves the efficiency of disc stacking and overhang control.

Winding: using the globally leading winding equipment, multi-stage tension variation and real-time correction technology, it perfectly solves the deformation and alignment of winding batteries.

QUALITY ASSURANCE

At the heart of Great Power lies High-Quality Manufacturing

Quality Management System: ISO9001, ISO14001, IATF16949

Success comes from strict quality management and unwavering attention to detail. All manufacturing facilities have certification of ISO9001, ISO14001, IATF16949, GJB9001B and ISO45001:2018, guaranteeing a strict quality management system that adds customer value. All ESS batteries are certified by UL, RoHS, CE, and QCT-743-2006.



Professional Team

Experts with over 20 years battery production experience to ensure the high quality of products.

Full-process Inspection

- Test and verify the material performance
- Test the final product in all aspects
- Sampling inspection in laboratory
- Average cell testing items exceed 100



GLOBAL LOCATIONS

10 production facilities 3 overseas offices



1 Great Power Headquarters

Guangzhou Manufacturing Base
 Research Institute
 Great Power Energy Storage Technology
 Company Research Institute
 Covering an area of 20,000 m²

2 Zhuhai GP

Covering an area of 166,500+ m²

3 Henan GP

Total investment of 1.5 billion RMB
 Fully-automatic production line
 imported from Korea
 Covering an area of 333,000 m²

4 NEXCELL, Japan

5 Changzhou GP

Total fixed assets investment
 of 5.8 billion RMB
 Covering an area of 432,900 m²

6 Shida Battery Co., Ltd

Providing automotive emergency
 high-rate battery worldwide
 Covering an area of 57000+ m²

7 Liuzhou GP

Automatic battery pack assembly
 line Phase I covering an area of
 166,500+ m²

8 Quzhou GP

Covering an area of 186,500 m²

9 Qingdao GP

The total planned capacity is 36GWh
 The first phase covers 200000 m²

**10 Support Center in
 Germany**

**11 Support Center in
 USA**

12 Vietnamese GP



SERVICE AND SUPPORT

Service Team: 15 professional teams distributed in nine regions.

Complaint Feedback: Feedback within 24 hours, temporary solutions provided within 48 hours, overall solutions provided within 5 working days.

VIP Service: On-site support at the factory.

System Service: Free regular inspections during the warranty period with various service methods.

professional
training materials

self-repair
empowerment

on-site repairs

tool support



Global Customers

SUNGROW

Trinasolar

TBEA

SAJI



freedom
WON

GROWATT

ecactus

LONGi



INDRIVETEC
Innovative Drive Technologies AG

Discover
Innovative Battery Solutions

ecoflow

ENERGY STORAGE PRODUCTS

APPLICATIONS OF ENERGY STORAGE BATTERIES

Great Power energy storage products are widely applied in energy storage fields of power generation, grid, commercial and industrial, UPS communication base station, residential & portable energy storage.

Utility Scale

Peak shaving: charge when the load is low and discharge when the load is high.

Renewable Integration: renewable energy generation is characterized by its randomness, intermittency and fluctuation. Energy storage regulates the output to meet grid connection requirements.

Energy arbitrage: store the electrical energy from the wind and photovoltaic energy generation plants at high peaks and deliver the energy to the grid at other periods to improve the energy utilization efficiency.

System frequency control: responsive within milli seconds and able to reduce the impact of change in load on the grid, thus improve the stability of the grid.

Alleviate Congestion: alleviate the conflicts of power consumption at high peaks and enhance the utilization of circuit for power transmission to relieve the necessity of grid system upgrade.

Backup power supply: ensure safe and stable power supply when there is a power failure.

Energy Storage for Commerce & Industry(C&I)

Energy arbitrage: charge when the electricity price is low and discharge when the price is high to achieve price difference arbitrage, thus reduce the cost of electricity usage.

Dynamic capacity expansion: reduce the overall load of grid with increased capacity and decreased cost if industrial users can store energy during the periods of low load and discharge the energy during the periods of high load.

Backup power supply: act as an emergency energy source and ensure uninterrupted power supply for key instruments.

Residential Energy Storage

Energy arbitrage: charge when the electricity price is low/and discharge when the price is high to achieve price difference arbitrage, thus reduce the electricity cost.

Off-grid operation: ensure the power supply in remote regions by integrating the system with photovoltaic generation systems.

Portable energy source: suitable for indoor and outdoor activities as well as emergency situations where there is no access to the grid electricity.



GREAT POWER BATTERY

Great Power has specialized in lithium-ion battery cells for more than 20 years and has technical advantages in the core performances of cells.



Positive-tolerance Capacity



High Energy Efficiency



Long Cycle Life



Excellent Safety



High Consistency



280Ah
Cell GSP71173204F

Product model	GSP71173204F
Capacity	280 Ah
Charging/discharging rate	0.5 P
Cycle life	≥6000@80%
Chemistry	LFP
Charging Temperature	0~60°C
Discharging Temperature	-30~60°C
Applications	UTILITY, C&I

Testing & Certification GB/T36276 UL1973 UL9540A UL1642 IEC62619 MSDS RoHS UN38.3



280Ah
Cell GSP71173204F

Product model	GSP71173204F
Capacity	280 Ah
Charging/discharging rate	1.0 C
Cycle life	≥6000@80%
Chemistry	LFP
Charging Temperature	0~60°C
Discharging Temperature	-30~60°C
Applications	UTILITY, C&I

Testing & Certification GB/T36276 UL1973 UL9540A UL1642 IEC62619 MSDS RoHS UN38.3



NEW

320Ah
Cell GSP71173204F

Product model	GSP71173204F
Capacity	320 Ah
Charging/discharging rate	0.5 P
Cycle life	≥8000@70%
Chemistry	LFP
Charging Temperature	0~60°C
Discharging Temperature	-30~60°C
Applications	UTILITY, C&I



314Ah
Cell GSP71173204F

Product model	GSP71173204F
Capacity	314 Ah
Charging/discharging rate	0.5 P
Cycle life	≥8000@70%
Chemistry	LFP
Charging Temperature	0~60°C
Discharging Temperature	-30~60°C
Applications	UTILITY, C&I



220Ah
Cell GSP54174206F

Product model	GSP54174206F
Capacity	220 Ah
Charging/discharging rate	0.5 C
Cycle life	≥6000@70%
Chemistry	LFP
Charging Temperature	0~60°C
Discharging Temperature	-30~60°C
Applications	UTILITY, C&I

Testing & Certification GB/T36276 MSDS RoHS UN38.3



150Ah
Cell GSP42173205F

Product model	GSP42173205F
Capacity	150 Ah
Charging/discharging rate	1 C
Cycle life	≥4000@80%
Chemistry	LFP
Charging Temperature	0~60°C
Discharging Temperature	-30~60°C
Applications	UTILITY, C&I

Testing & Certification IEC62619 GB/T36276 UL1973 BIS UN38.3



100Ah
Cell GSP50160119F

Product model	GSP50160119F
Capacity	100 Ah
Charging/discharging rate	1 C
Cycle life	≥4000@80%
Chemistry	LFP
Charging Temperature	0~60°C
Discharging Temperature	-30~60°C
Applications	residential, portable

Testing & Certification IEC62619 UL1973 UL9540A MSDS UN38.3



72Ah
Cell GSP39148107F

Product model	GSP39148107F
Capacity	72 Ah
Charging/discharging rate	1 C
Cycle life	≥6000@70%
Chemistry	LFP
Charging Temperature	0~60°C
Discharging Temperature	-30~60°C
Applications	residential, portable



30Ah
Cell GSP11133202

Product model	GSP11133202
Capacity	30 Ah
Charging/discharging rate	1 C
Cycle life	≥6000@80%
Chemistry	LFP
Charging Temperature	0~55°C
Discharging Temperature	-15~55°C
Applications	residential, portable

Testing & Certification IEC62619 BIS UN38.3



25Ah
Cell GSP82141238

Product model	GSP82141238
Capacity	25 Ah
Charging/discharging rate	1 C
Cycle life	≥6000@80%
Chemistry	LFP
Charging Temperature	0~55°C
Discharging Temperature	-15~55°C
Applications	residential, portable

Testing & Certification IEC62619 UL1973 UL9540A MSDS UN38.3



50Ah
Cell GSP3914895F

Product model	GSP3914895F
Capacity	50 Ah
Charging/discharging rate	1 C
Cycle life	≥4000@80%
Chemistry	LFP
Charging Temperature	0~60°C
Discharging Temperature	-30~55°C
Applications	residential, portable

Testing & Certification IEC62619 UL1973 UL9540A MSDS UN38.3



37Ah
Cell GSP11141238

Product model	GSP11141238
Capacity	37 Ah
Charging/discharging rate	1 C
Cycle life	≥6000@80%
Chemistry	LFP
Charging Temperature	0~55°C
Discharging Temperature	-15~55°C
Applications	residential, portable

Testing & Certification CQC RoHS MSDS



50Ah
Cell IFR46250

Product model	IFR46250
Capacity	50 Ah
Charging/discharging rate	1 C
Cycle life	≥4000
Chemistry	LFP
Charging Temperature	0~55°C
Discharging Temperature	-20~60°C
Applications	residential solution, EV battery



20Ah
Cell IFR40135

Product model	IFR40135
Capacity	20 Ah
Charging/discharging rate	1 C
Cycle life	≥4000
Chemistry	LFP
Charging Temperature	0~55°C
Discharging Temperature	-20~60°C
Applications	residential storage, EV battery, portable station battery

Testing & Certification IEC62133 IEC62619 UL1642 UL1973 UL9540A CQC UN38.3 BIS MSDS RoHS PSE REACH WPC BSCI



SODIUM-ION BATTERY

Great Power Energy has carried out research on sodium-ion battery technology since 2019, and obtained major research results in layered oxide and polyanion systems in 2021. In 2022, the product will be put into small batch trial production, and the power vehicle assembly test will be carried out. In 2023, Great Power sodium-ion battery entered the commercialization stage, and in July of the same year, Great Power Energy Qingdao North Shore Holding big data center signed a contract, marking the scale application of sodium-ion battery energy storage power station entered the practical stage.

Currently, Great Power has officially released two types of hyphen sodium-ion cells: square 150Ah and small cylinder 3050mAh. Great Power sodium-ion cell passed the battery evaluation of China Electronic Technology Standardization Institute, and became the first sodium-ion battery evaluation unit in China. In the layered oxide system, high voltage system is developed to achieve energy density up to 150Wh/kg and cycle life of more than 3000 weeks; In the polyanion system, through material innovation to build a highly stable system, cycle life of more than 6000 weeks, revolutionary crack the core pain points of low sodium energy density and cycle life.

Sodium-ion battery



150Ah

Product model	54173206
Capacity	150 Ah
Charging/discharging rate	0.5 C
Cycle life	3000@80%
Charging Temperature	0~45°C
Discharging Temperature	-40~60°C
Applications	residential storage, EV battery



3.05Ah

Product model	26650
Capacity	3.05 Ah
Charging/discharging rate	0.5 C
Cycle life	3000@80%
Charging Temperature	0~45°C
Discharging Temperature	-40~60°C
Applications	residential storage, EV battery

Pack

LiqPack-1P52S 280Ah
LiqPack-1P48S 280Ah



- Liquid-cooled pack
- Suitable for container and cabinet energy storage systems
- Thermal insulation between cells, eliminating heat diffusion
- Uniform temperature difference within 2 °C, ensuring stability and reliability
- Metal casing with thermal insulation, preventing heat diffusion at temperatures up to 1000°C
- Great flow channel design optimized through thermal simulation technology
- High safety standard: UL 9540A
- High protection level: IP 67
- Worldwide certifications: UL9540A, UL1973, IEC62619, IEC61000 and UN38.3

Product Type	LiqPack-1P52S	LiqPack-1P48S
Cell Capacity	280 Ah	280 Ah
Configuration	1P 52S	1P 48S
Charging/Discharging Rate	0.5 C	0.5 C
Cooling Method	Liquid cooling	Liquid cooling
Rated Capacity	280Ah@0.5C	280Ah@0.5C
Battery System Voltage	1000/1500 Vd.c.	1000/1500 Vd.c.
Rated Energy	46.592 KWh	43.008 KWh
Protection Level	IP67	IP67
Dimensions	W786*D1141*H251.5 mm	W786*D1068*H251.5 mm
Product Weight	≈ 360 Kg	≈ 330 Kg
Maritime Standard	UN38.3	UN38.3
Applications	Container or Cabinet	Container or Cabinet

Testing&Certification



Pack

AirPack-2P12S 300Ah
AirPack-1P16S 280Ah
AirPack-1P24S 150Ah



- Air-cooled pack
- Suitable for container and cabinet energy storage systems
- Mature technology
- Affordable cost
- Protection level: IP2X
- Transportation standard: UN383.3

Product Type	AirPack-2P12S	AirPack-1P16S	AirPack-1P24S
Cell Capacity	300 Ah	280 Ah	150 Ah
Configuration	2P 12S	1P 16S	1P 24S
Charging/Discharging Rate	0.5 C	0.5 C	1.0 C
Cooling Method	Air cooling	Air cooling	Air cooling
Rated Capacity	300Ah@0.5C	280Ah@0.5C	150Ah@1.0C
Battery System Voltage	1000 Vd.c.	1000/1500 Vd.c.	1000/1500Vd.c.
Rated Energy	11.52 KWh	14.336 KWh	11.52 KWh
Protection Level	IP2X	IP2X	IP2X
Dimensions	W450.5*D693*H242 mm	W470*D833*H225 mm	W470*D785*H225 mm
Product Weight	≈ 99 Kg	≈ 113 Kg	≈ 96.5 Kg
Maritime Standard	UN38.3	N/A	UN38.3
Applications	Container or Cabinet	Container or Cabinet	Container or Cabinet

Testing&Certification





Rack

**LiqRack-1P416S
LiqRack-1P384S**

- Liquid-cooled pack in parallel
- Suitable for container energy storage systems
- Modular design, easy application combination
- Thermal insulation between cells, eliminating heat diffusion
- Uniform temperature difference within 2 °C, ensuring stability and reliability
- Great flow channel design optimized through thermal simulation technology
- 20% longer cycle life compared to air cooled
- Wide operating temperature range, from -40 °C to 60°C
- High protection level: IP 67



Rack

**AirRack-1P416S
AirRack-1P360S**

- Air-cooled pack in parallel
- Suitable for container energy storage systems
- High safety, mature technology, reliability, and low cost
- Modular design, easy to application combination, install, and maintain.
- High-rate capability, supports up to 1C.

Product Type	LiqRack-1P416S	LiqRack-1P384S
Charge/Discharge Rate of The Pack	0.5C	0.5 C
Configuration	1P416S	1P 384S
Nominal Voltage	1331.2 V	1228.8 V
Working Voltage Range	900-1500Vd.c.	900-1500 Vd.c.
Rated Capacity	280 Ah	280 Ah
Rated Energy	372.7 KWh	344 KWh
Dimensions	W860*D1153*H2333 mm	W860*D1080*H2333 mm
Product Weight	≈3200 Kg	≈3000 Kg
Pack Type	LiqPack-1P52S	LiqPack-1P48S
Functional Safety	Class B	Class B
Applications	Container	Container

Testing&Certification



Product Type	AirRack-1P416S	AirRack-1P360S
Charge/Discharge Rate of The Pack	0.5 C	1 C
Configuration	1P 416S	1P 360S
Nominal Voltage	1331.2 V	1152 V
Working Voltage Range	900-1500 Vd.c.	900-1500 Vd.c.
Rated Capacity	280 Ah	150 Ah
Rated Energy	372.7 KWh	172.8 KWh
Dimensions	W1442*D835*H2418 mm	W960*D788* H2341 mm
Product Weight	≈3200 Kg	≈1700 Kg
Pack Type	AirPack-1P16S	AirPack-1P24S
Functional Safety	Class B	Class B
Applications	Container	Container

Testing&Certification





Magna-UTL-373DC

- DC outdoor liquid-cooling battery system
- Suitable for both of UTILITY and C&I applications
- High safety: one pack with one control, no circulating current, capable of preventing DC short circuit current
- Long cycle life: inhomogeneity<1.6°, allowing cells cycle life increase by 30%
- non-uniformity95% Standardized
- Modular design for easy combination, installation and maintenance
- Easy to AC parallel connection and flexible site layout

Magna-C&I-233AC Magna-C&I-215AC

- AC outdoor liquid-cooling battery system
- Suitable for C&I applications
- High safety: one pack with one control, no circulating current, capable of preventing DC short circuit current
- Long cycle life: inhomogeneity<1.6°, allowing cells cycle life increase by 30%
- non-uniformity95% Standardized
- Modular design for easy combination, installation and maintenance

Outside Battery System



Max-C20-3440 Max-C20-3096 Max-C20-2750

- 20GP DC liquid-cooling container energy storage solution
- Liquid cooling, high safety and long service life
- Centralized or distributed topology for overseas transportation
- Low cost of LCOS
- Standardized module design easily utilized
- Availability>95%
- Available for multiple applications

Max-C45-5200

- 45GP DC air-cooling container energy storage solution
- Reliable
- Low initial investment
- Easy maintenance

Containerized Energy Storage Solution

Product Type	Magna-UTL-373	Magna-C&I-233	Magna-C&I-215
Product Category	DC Outdoor Liquid-cooling Battery System	AC Industrial Liquid-cooling Battery System	AC Industrial Liquid-cooling Battery System
Rated Energy	372.7KWh@0.5C	233KWh@0.5C	215KWh@0.5C
Rated Power	180 KW	100 KW	100 KW
Rated Output Voltage	900-1500 Vd.c.	380 Va.c.	380 Va.c.
Cell Capacity	280 Ah	280 Ah	280 Ah
Cell Type	LFP	LFP	LFP
Configuration	1P 416S	1P 260S	1P 240S
Maximum Discharge Current	173 A	173 A	173 A
Maximum Charging Current	173 A	173 A	173 A
Charging Temperature	0~45°C	0~45°C	0~45°C
Discharging Temperature	-20~50°C	-20~50°C	-20~50°C
Communication Port	CAN, 485	CAN, 485	CAN, 485
Cooling Method	Liquid Cooling	Liquid Cooling	Liquid Cooling
Protection Level	IP55	IP55	IP55
Functional Safety	Class B	Class B	Class B
Product Weight	≈4000 Kg	≈2800 Kg	≈2800 Kg
Dimensions	W1300*D1300*H2355 mm	W1300*D1300*H2265 mm	W1300*D1300*H2265 mm
Applications	UTILITY, C&I	C&I	C&I

Product Type	Max-C20-3440 Max-C20-3096 Max-C20-2750	Max-C45-5200
Product Category	20HC DC liquid-cooling container energy storage solution	45HC DC air-cooling container energy storage solution
Rated Energy	3.44MWh@0.5C	5.2MWh@0.5C
Rated Power	180KW*10/1.7MW	2.5MW
Rated Output Voltage	900-1500 Vd.c.	900-1500 Vd.c.
Cell Capacity	280 Ah	280 Ah
Cell Type	LFP	LFP
Configuration	1P384S*(10 or 9 or 8)	14P 416S
Maximum Discharge Current	173 A*(10 or 9 or 8)	173 A*(10 or 9 or 8)
Maximum Charging Current	173A*(10 or 9 or 8)	173 A*(10 or 9 or 8)
Charging Temperature	0~45°C	0~45°C
Discharging Temperature	-20~50°C	-20~50°C
Communication Port	CAN, 485, TCP/IP	CAN, 485, TCP/IP
Cooling Method	Liquid Cooling	Air Cooling
Protection Level	IP54	IP54
Functional Safety	Class B	Class B
Product Weight	<36t	≈60t
Dimensions	W6058*D2438*H2896 mm (20HC)	W13716*D2438*H2896 mm (45HC)
Applications	UTILITY, C&I	UTILITY, C&I

Testing&Certification



Testing&Certification



Reference Projects



Reference Projects



Location: Croatia

- Functions: smoothing photovoltaic power generation and peak shaving Installed for a water pump factory
- Certificated TUV SUD PPP59044A
- Scale: 500KW/1MWh



Location: Croatia

- Functions: smoothing photovoltaic power generation, peak shaving
- Certificated TUV SUD PPP59044A
- Scale: 3MW/17MWh



Location: India

- Functions: energy storage for off-grid power generation, shaving, dynamic capacity expansion and backup power supply
- Scale: 75KW/300kWh



Location: Germany

- Functions: peak shaving, smoothing photovoltaic power generation, dynamic capacity expansion and backup power supply
- Scale: 16.77MWh

Reference Projects



Location: The Netherlands

- Functions: peak load shifting, smoothing photovoltaic power generation, dynamic capacity expansion and backup power supply
- Scale: Photovoltaic 12.5MWp
Energy storage 3.6MW/3.6MWh



Location: Swiss Confederation

- Functions: peak-to-valley price arbitrage, peak load shifting
- Scale: Photovoltaic 12.5MWp
Energy storage 3.6MW/3.6MWh



Location: Jiangsu province, China

- Functions: peak-to-valley price arbitrage, load shifting, load monitoring, dynamic capacity expansion and backup power supply
- Installed for a manufacturer
- Scale: 20MW/80MWh



Location: Jiangsu province, China

- Functions: ppeak-to-valley price arbitrage
- Scale: 33MW/100MWh

Reference Projects



Location: Zhuhai, China

- Functions: peak-to-valley price arbitrage, dynamic capacity expansion and backup power supply
- Scale: 5MW/15.9MWh, 5 sets of subsystems installed



Location: Liuzhou, China

- Function: cost saving through utilization of repurposed power battery
- Scale: 500KW/1MWh, 5 sets of subsystems installed



Location: Hunan province, China

- Functions: Hunan Province's first batch of grid-side independent energy storage power stations, participate in electricity market transactions.
- Scale: 15MW/33.17MWh



Location: Guixi, Jiangxi, China

- Functions: peak load shifting and ancillary service
- Scale: 5MW/5.16MWh

Reference Projects



Location: Nanning, China

- Functions: energy storage for grid, load shifting, load monitoring and backup power supply
- Scale: 50MW/100MWh



Location: China

- Functions: energy storage for power generation, smoothing photovoltaic power generation, peak load shifting and reduce solar energy curtailment, improve energy efficiency
- Scale: 22.5MW/90MWh



Location: China

- Functions: energy storage for power generation, smoothing photovoltaic power generation, peak load shifting and reduce solar energy curtailment, improve energy efficiency
- Scale: 37.5MW/150MWh



Location: Ji an, Jiangxi, China

- Functions: peak load shifting and ancillary service
- Scale: 15MW/15MWh

Reference Projects



Location: Guangzhou, Guangdong, China

Scale: 2MW



Location: A cold chain park in Guangzhou, Guangdong, China

Scale: 0.6MW/1.29MWh



Location: A industry park in Zhuhai, Guangdong, China

Scale: 0.25MW/0.516MWh



Location: A industry in Guangzhou, Guangdong, China

Scale: 0.25MW/0.516MWh

Reference Projects



Location: A industry park in Guangzhou, Guangdong, China

Scale: 0.4MW/0.86MWh



Location: A industry park in Quzhou, Zhejiang, China

Scale: 0.2MW/0.466kWh



A supermarket in Guangzhou, Guangdong, China

Scale: 0.3MW/0.645MWh



A supercharging station in Guangzhou, Guangdong, China

Function: 0.1MW/0.215MWh

Reference Projects



Custom integration solution for an industrial park in Zhuhai, Guangdong, China

Energy storage totally: 25.889MWh
Capacity 1 : 5MW/15.889MWh (2019 Year)
Capacity 2 : 5MW/10MWh (2023 Year)



Custom integration solution for an industrial park in Zhuhai, Guangdong, China

Energy storage: 7.5MW/15MWh
Photovoltaic: 4.5kWp

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