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

Go Innova**tion**

Cherish | Pragmatism | Integrity | Innovation

www.gotion.com

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Version 2.1 0911

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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.

Product Market Layout

- EV Market
- ESS Market
- Recycling Market

Main Business

EV Battery Systems and Services



Cell → Module → Pack

Energy Storage Solutions and Services



Cell → Module → Pack



Power Station ← Container ← Rack

We Provide

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

* All Services for Both EV and ESS



Global Achievements

Gotion High-tech is Recognized in Bloomberg's Energy Storage Manufacturer Tier 1 List in H1 2024

Gotion High-tech is Recognized in SMM's Energy Storage Manufacturer Tier 1 List in 2024

Top 3

the Global Installed Capacity of LFP Batteries in 2023

2024

Volkswagen Battery Category Best Supplier

2024

China Top 500 Enterprises

Energy Storage Product Achievements

Applied since **2018**

Project Cases **>200+**

Shipment Volume **>25GWh**

- Huaibei Wanneng Energy Storage Power Station Project I , the LFP Energy Storage Power Station on the Grid Side with the Largest Single Capacity in China.
- California Theater Energy Storage Project the First Case in the US.

Company Milestones

2006

- Gotion High-tech Founded

2008

- Engineering R&D Institute Founded

2010

- Gotion's Battery Powered the World's First Commercial Electric Bus Route
- Certified by ISO9001

2011

- First Batch of 585 JAC BEVs with Gotion Battery Debuted in Chinese Market
- Certified by IATF16949

2015

- Stock Code: SZ.002074 Listed on the Shenzhen Stock Exchange

2018

- Zhenjiang Energy Storage Power Station Project Delivery

2020

- Earned Strategic Investment from Volkswagen Group

2021

- Launched the Construction of Overseas Factories in EMEA, Americas, APAC.

2022

- Nominated as the First Global Supplier for VW's UC Project
- Issued GDRs and Went Public on the Swiss Stock Exchange
- Co-operation with VinES Cell Factory in Vietnam Started

2023

- Launched the First Locally Produced Battery Product in Germany
- the Illinois Battery Plant in the U.S. Officially Started
- the First Battery Product of NVGOTION in Thailand Officially Launched.

2024

- Awarded Volkswagen' s Best Supplier

Global Footprints

8 Global R&D Centers; **20** Global Production Hubs; **4** The Layout of Localized Supply of Materials



Germany

- Research Institute
- Battery Manufacturing Hub

Morocco

Under Construction

- Material Hub
- Battery Manufacturing Hub

Slovakia

Under Construction

- Battery Manufacturing Hub

India

- Research Institute
- Battery Manufacturing Hub

Thailand

- Battery Manufacturing Hub

Singapore

- Joint Laboratory

Headquarters R&D Plant Materials



China

- Headquarters
- Engineering Research General Institute
- Battery Manufacturing Hub
- Material Hub

America

- Silicon Valley Institute
- Cleveland Institute
- Material Hub
- Battery Manufacturing Hub

Japan

- Tsukuba Research Institute

Argentina

Under Construction

- Material Hub
- Battery Manufacturing Hub

Indonesia

- Material Hub
- Battery Manufacturing Hub

Vietnam

- Battery Manufacturing Hub

Technology Highlights



9295 Patents Applied

290 Research Papers Published

93 Industry Standards Formulated

≥1000 Material Field Patent Holdings

Data as of 30.06.2024



R&D Strength

Three Validation Platforms

Material Testing

Electrical Performance Testing

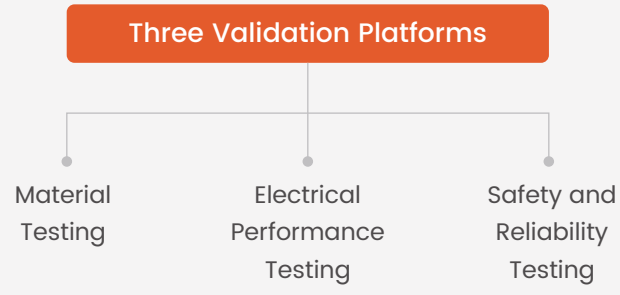
Safety and Reliability Testing

Team Size

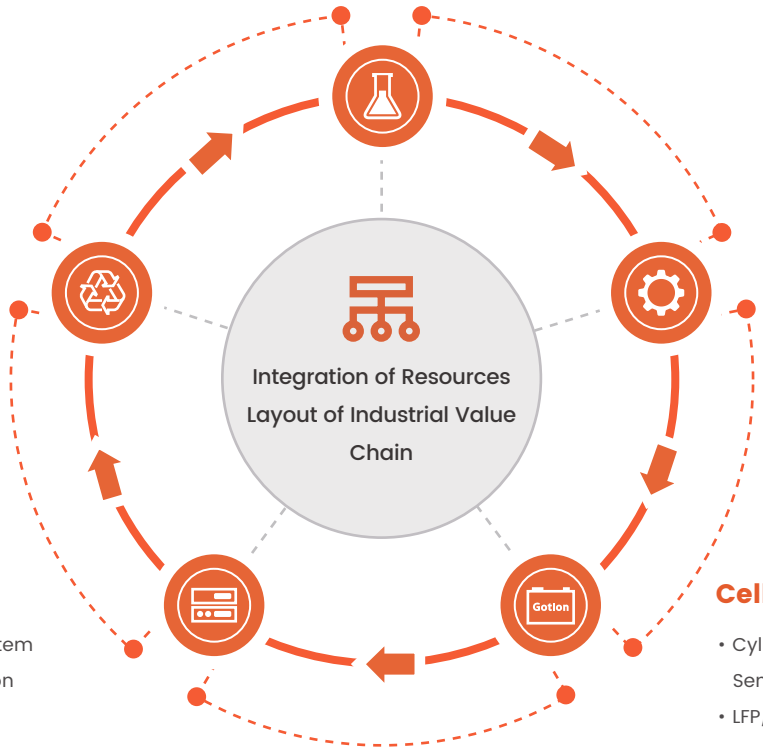
R&D Investment YOY Growth Rate (2023)	14.57%
Current R&D Team	7,000+
Materials R&D Team	1,000+
Overseas R&D Personnel	600+
Ph.D. Degree Holders	200+

Scientific and Technological Innovation

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



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 Solutions

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

America	Europe & Africa	China	
Cathode Material	Cathode Material	Hefei, Anhui	NCM, LFP Cathode Material, Separator
Anode Material	Separator	Yichun, Jiangxi	Lithium Carbonate
Separator	Aluminum Foil	Caofeidian, Hebei	NCM Precursors
Argentina	**Indonesia**	Wuhai, Inner Mongolia	Anode Material
Lithium Carbonate	Nickel-Cobalt	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 Fault FCST Active are Customized Service.

Quality Assurance

Certificate for Online Auditing



ISO9001



IATF16949



GB/T 24001-2016
ISO 14001:2015



GB/T 45001-2020
ISO45001:2018

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5

ESS Product

Utility-Scale BESS

Commercial & Industrial BESS

Residential BESS

Mobile EV Chargers

Portable Power for Gendome Residential

Gotion GRID 5068/5015

Liquid Cooling Energy Storage System III



5068/5015 kWh High Energy	**12000 Cycles** Long Life Span	**3-Layer Protection** High Safety
20ft Standard Container	**3 ° C** Intelligent Temperature Control	**33%** Occupied Area Saved

- High-Energy-Density System
- Optional Battery Container
- Optimal Space Utilization
- Integrated BMS Development
- Low Cost with Minimal Footprint

ESS Product Solution

- Thermal Energy Storage
- Wind and Solar Energy Storage
- Shared Energy Storage
- Peak-valley Arbitrage



*The image illustrates two electrical racks physically mounted together to fit into the container, and one electrical rack comprises four battery packs connected in series.

Model	ESD1280-05P5068	ESD1331-05P5015
Electrical Parameters		
Cell Type	LFP-330Ah	LFP-314Ah
Cell Cycle Life	> 12000	
Rated Voltage (Vdc) of Single Cell	3.2	
Pack Configuration	1P100S	1P104S
Rack Configuration	1P400S	1P416S
System Configuration	12P400S	12P416S
System Nominal Energy (kWh)	5068	5015
System Rated Voltage (Vdc)	1280	1331.2
System Voltage Range (Vdc)	1000~1460	1040~1497.6
System Rated Power (kW)	2534	2507.5
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+Temperature/Smoke/ Combustible gas detection+PACK-level submerged fire extinguishing+ Aerosol/ FK-5-1-12 +Water sprinkler system	
Thermal Management System	Integrated Liquid Cooler 60kW cooling capacity + Air-cooling for Container	
Conditions		
Storage Temperature (° C)	-30~60	
Working Ambient Temperature (° C)	-30~45(>45 Derating)	
Working Relative Humidity (%)	0~95(Non-condensing)	
Working Altitude (m)	≤ 3000(>3000 Derating)	
Other Parameters		
Ingress Protection	IP55(except liquid cooler)	
Communication Interface	CAN, RS-485, Ethernet	
Communication Protocol	CAN, Modbus-TCP/IP, Modbus RTU, IEC104	
Dimensions (L×W×H) mm	6058×2438×2896 (20ft Container)	
Weight (t)	≈ 44	≈ 43
Standards & Certification		
UL	UL9540A	UL1973, UL9540A UL9540, RoHS, Reach, (EU) 2023/1542
IEC	IEC 62477-1, IEC 60529, IEC 61000-6-2, IEC 61000-6-4, IEC 62933-5-2 IEC 63056, IEC 62619	
Transportation	UN38.3, UN3536, UN3480	

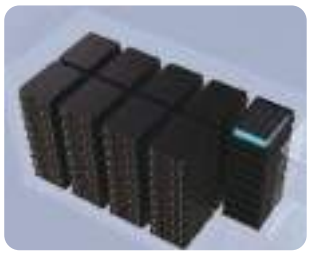
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Gotion GRID 3421

Liquid Cooling Energy Storage System II

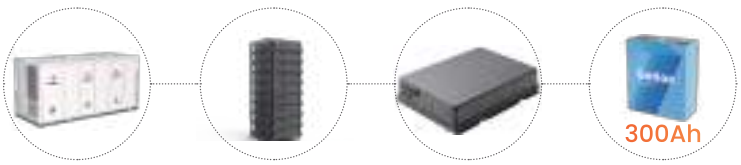


Excellent Safety

Protection Design	1st Level Protection	2nd Level Protection	3rd Level Protection
• Dry wet separation design by an integrated die-cast structure of the liquid cooling plate and pipeline	• Continuous BMU Cell level temperature monitoring • Cell Temperature Rise Alarm	• Thermal + Smoke + Combustible Gas Detection and Alarm • Liquid Leakage Detection	• *Water sprinkler system • External Fire Hose Connection Port
	• Cell thermal runaway suppression by pack-level immersion system with no reignition after 24 hours	• Active ventilation and pressure relief system • FK 5-1-12 automatic dry agent fire extinguishing system	

* Dry pipe optional

System-3421 | Rack×9 | Pack×81 | Cell×3564



Model	ESD1267-05P3421
Electrical Parameters	
Cell Type	LFP-300Ah
Cell Cycle Life	>12000
Rated Voltage (Vdc) of Single Cell	3.2
Pack Configuration	1P44S
Rack Configuration	1P396S
System Configuration	9P396S
System Nominal Energy (kWh)	3421
System Rated Voltage (Vdc)	1267.2
System Voltage Range (Vdc)	990~1445.4
System Rated Power (kW)	1710.5
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+Temperature/Smoke/Combustible gas detection +PACK-level submerged fire extinguishing+ Aerosol/FK-5-1-12 +Water sprinkler system
Thermal Management System	Integrated Liquid Cooler(40kW cooling capacity)+ Air-cooling for Container
Conditions	
Storage Temperature (° C)	-30~60
Working Ambient Temperature (°C)	-30~45(>45 Derating)
Working Relative Humidity (%)	0~95(Non-condensing)
Working Altitude (m)	≤ 3000(>3000 Derating)
Other Parameters	
Ingress Protection	IP54
Communication Interface	CAN, RS-485, Ethernet
Communication Protocol	CAN, Modbus-TCP/IP, Modbus RTU, IEC104
Dimensions (L×W×H) mm	6058×2438×2896 (20ft Container)
Weight (t)	≈ 37
Standards & Certification	
UL	UL1973, UL9540A, UL9540
IEC	IEC 62477-1, IEC 61000-6-2, IEC 61000-6-4, IEC 62933-5-2, IEC 63056, IEC 62619, IEC 60730-1,
Transportation	UN38.3, UN3536, UN3480

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Gotion EDGE 760

Lithium-ion Battery Outdoor Cabinet for C&I



Advantages

High Safety

- Cabinet-to-cabinet fire resistance
- Cabinet body: fire resistance rating of 1.5 hours
- Temp and smoke sensors+aerosol and water fire protection system

Flexible Integration

- Prefabricated cabinets, easy for on-site installation
- Adapt to size of 20ft and 40ft standard container
- Supporting parallel connection and system expansion
- Supporting reduced pack configurations

Multiple Scenarios

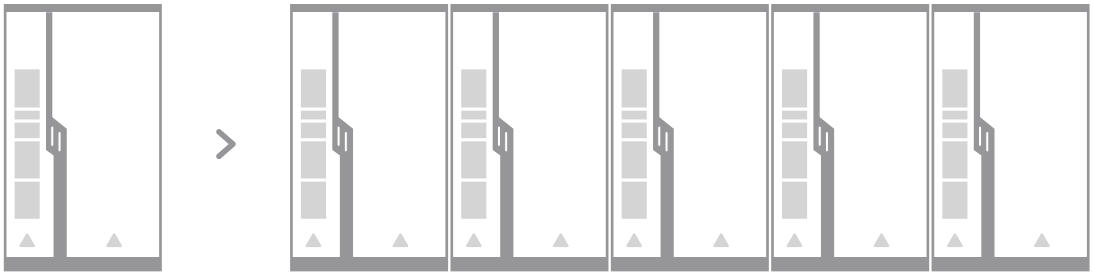
- Urban buildings, communities
- Low-voltage area network
- Highly integrated liquid-cooled C&I ESS

Smart and User-Friendly

- Supporting parallel and offline mode
- Early fault warning and location
- Real-time monitoring and fault logging

Application Scenario

Maximum capacity of 3.8MWh (5 cabinets)



The above schematic diagram illustrates that the EDGE 760 cabinet supports parallel connections of up to five (expanding total system capacity up to 3.8MWh) to provide enhanced scalability and flexibility while ensuring robust performance and improved energy storage.

Model	ESD1267-05P760-G
Electrical Parameters	
Cell Type	LFP-300Ah
Cell Cycle Life	>8000
Rated Voltage (Vdc) of Single Cell	3.2
Pack Configuration	1P44S
Rack Configuration	1P396S
System Configuration	2P396S
System Nominal Energy (kWh)	760
System Rated Voltage (Vdc)	1267.2
System Voltage Range (Vdc)	990~1445.4
System Rated Power (kW)	380
Charge / Discharge Rate	0.5P@25° C
Components	
High Voltage Box	Integrated
Confluence Cabinet	Integrated
Monitoring System (HMI)	Integrated
Fire Suppression System	Temperature/Smoke detection +explosion relief panel + PACK-level submerged fire extinguishing+Aerosol +Water sprinkler system
Thermal Management System	Integrated Liquid Cooler, 12kW cooling capacity
Conditions	
Storage Temperature (° C)	-30~60
Working Ambient Temperature (°C)	-20~45(>45 Derating)
Working Relative Humidity (%)	0~95(Non-condensing)
Working Altitude (m)	≤ 2000(>2000 Derating)
Other Parameters	
Max. Parallel Sets	5
Ingress Protection	IP55
Communication Interface	CAN, RS-485, Ethernet
Communication Protocol	CAN, Modbus-TCP/IP, Modbus RTU, IEC104
Dimensions (L×W×H) mm	2400×1400×2500
Weight (t)	≈ 8
Standards & Certification	
UL	UL1973, UL9540A, UL9540
IEC	IEC 62477-1, IEC 61000-6-2, IEC 61000-6-4, IEC 63056, IEC 62619, IEC 60730-1
Transportation	UN38.3, UN3480

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Gotion GRID 2703

Air Cooling Energy Storage System I



Advantages of Products

Standardization

- 20ft standard container
- Modular design and optimal layout

Space Optimization

- High volumetric energy density
- Double containers connection

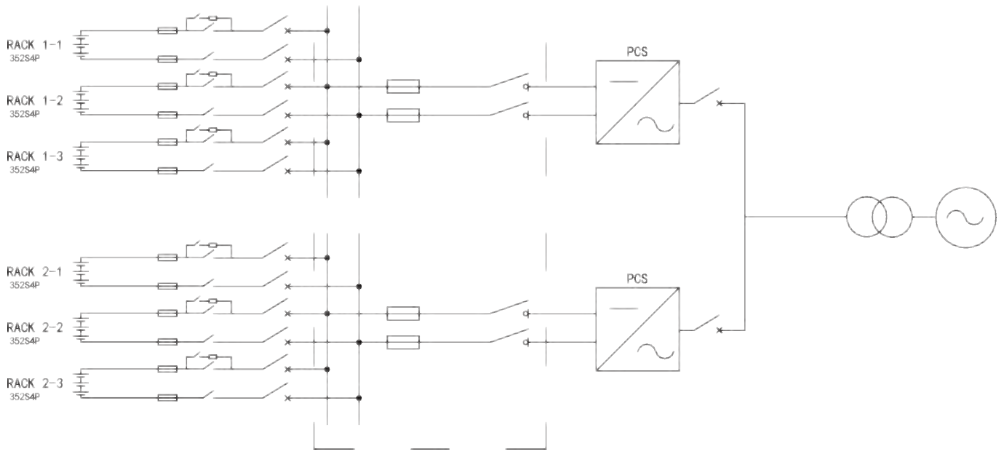
Superior Performance

- Super long cycle life
- High conversion efficiency

Intelligent Temperature Control

- Modular management for temp uniformity
- Automatic security system+full immersion +fast response

Architecture Diagram



Model	ESD1126-05P2703
Electrical Parameters	
Cell Type	LFP-100Ah
Cell Cycle Life	>8000
Rated Voltage (Vdc) of Single Cell	3.2
Pack Configuration	4P16S
Rack Configuration	4P352S
System Configuration	24P352S
System Nominal Energy (kWh)	2703
System Rated Voltage (Vdc)	1126.4
System Voltage Range (Vdc)	880~1284.8
System Output Voltage (Vac)	/
System Rated Power (kW)	1351
Charge / Discharge Rate	0.5P@25° C
Conditions	
High Voltage Box	Integrated
Confluence Cabinet	Integrated
Monitoring System (HMI)	Integrated
Fire Suppression System	Explosion-proof exhaust and ventilation+Temperature/Smoke/Combustible gas detection +Multi-stage fire suppression system
Thermal Management System	Air-Cooling for Container(6 units)
Components	
Storage Temperature (° C)	-30~60
Working Ambient Temperature (° C)	-30~45 (>45° C Derating)
Working Relative Humidity (%)	0~95 (Non-condensing)
Working Altitude (m)	<3000 (≥ 3000 Derating)
Other Parameters	
Max. parallel number	/
Ingress Protection	IP54
Communication Interface	CAN, RS485, Ethernet
Communication Protocol	CAN, Modbus-TCP/IP, Modbus RTU, IEC104
Dimensions (L*W*H)mm	6058×2438×2896 (20ft Container)
Weight (t)	≈ 32
Standards & Certification	
UL	UL1973, UL9540A, UL9540
IEC	IEC 62477-1, IEC 61000-6-2, IEC 61000-6-4, IEC 62933-5-2, IEC 63056, IEC 62619, IEC 60730-1
Transportation	UN38.3, UN3536

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Gotion EDGE

ESC-R100-211-CE



Advantages of Products

Comprehensive Protection Real-time Monitoring

- EMS real-time monitoring and fault logging
- BMS real-time detection to protect the safe operation of the battery system

Modular Design

- Scalable design, customized design
- High space utilization

Unattended, Intelligent Operation and Maintenance(O&M)

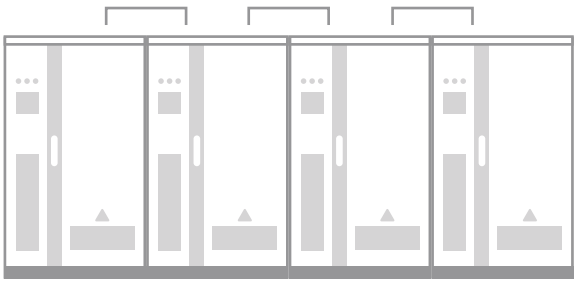
- Access to energy storage intelligent O&M system
- Intelligent statistical analysis
- Cloud-side collaboration
- reporting and remote control

Safe, Environmentally Friendly and Highly Adaptable

- Suitable for PV & Diesel microgrids
- Automatic switching between on-grid and off-grid operation

On-grid Max. parallel number: 20

Off-gried Max. parallel number: 4



* Support 4 Sets for Parallel Connection

The industrial and commercial storage products feature a modular system design, available in economic and standard models. The economic models are compact with high energy density, while the standard models offer excellent energy and power adaptability with flexible configuration options. These products facilitate peak shifting, staggered power consumption, and help alleviate grid pressure.

Model	ESC-R100-211-CE	ESD832-05P522-G
Electrical Parameters		
Cell Type	LFP-300Ah	LFP-314Ah
Cell Cycle Life	>8000	>12000
Rated Voltage (Vdc) of Single Cell	3.2	3.2
Pack Configuration	1P44S	1P52S
Rack Configuration	1P220S	1P260S
System Configuration	1P220S	2P260S
System Nominal Energy (kWh)	211	522
System Rated Voltage (Vdc)	704	832
System Voltage Range (Vdc)	600-803	728-936
System Output Voltage (Vac)	400@50Hz/60Hz	480@60Hz
System Rated Power (kW)	100	250
Charge / Discharge Rate	0.5P@25° C	0.5P@25° C
Components		
High Voltage Box	Integrated in Control Box	Integrated
Confluence Cabinet	Integrated in Control Box	/
Monitoring System (HMI)	Integrated	
Fire Suppression System	Temperature/Smoke detection +gas concentration detection +explosion relief panel +Aerosol	Temperature/Smoke detection +explosion relief panel +Aerosol +Water sprinkler system
Thermal Management System	Integrated Liquid Cooler(5kW cooling capacity) + Air-cooling for PCS	Integrated Liquid Cooler + Liquid Cooler for PCS
Conditions		
Storage Temperature (° C)	-30~60	
Working Ambient Temperature (° C)	-20~45 (>45 Derating)	
Working Relative Humidity (%)	0~95 (Non-condensing)	
Working Altitude (m)	≤ 2000 (>2000 Derating)	<3000 (≥ 3000 Derating)
Other Parameters		
Max. Parallel Sets	20(grid-connected), 4(off-grid)	5(grid-connected), 2(off-grid)
Ingress Protection	IP55	
Communication Interface	4G*, RS-485, Ethernet(reserve)	CAN, RS485, Ethernet
Communication Protocol	Modbus RTU/MQTT	
Dimensions (L×W×H) mm	1340×1300×2260	2370×1500×2250
Weight (t)	≈ 2.6	≈ 5
Standards & Certification		
UL	/	UL1973, UL9540A, UL9540
IEC	IEC 62477-1, IEC 61000-6-2, IEC 61000-6-4, IEC 63056 IEC 62619, IEC 60730-1	TBD
Transportation	UN38.3, UN3480	TBD

* Support for Extended Integration; 05P522 product is on-going

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NAVY CUBE

Green Alternative to Diesel Gensets



Advantages of Products

Comprehensive Protection Real-time Monitoring

- EMS real-time monitoring and fault logging
- BMS real-time detection to protect the safe operation of the battery system

Compact Design

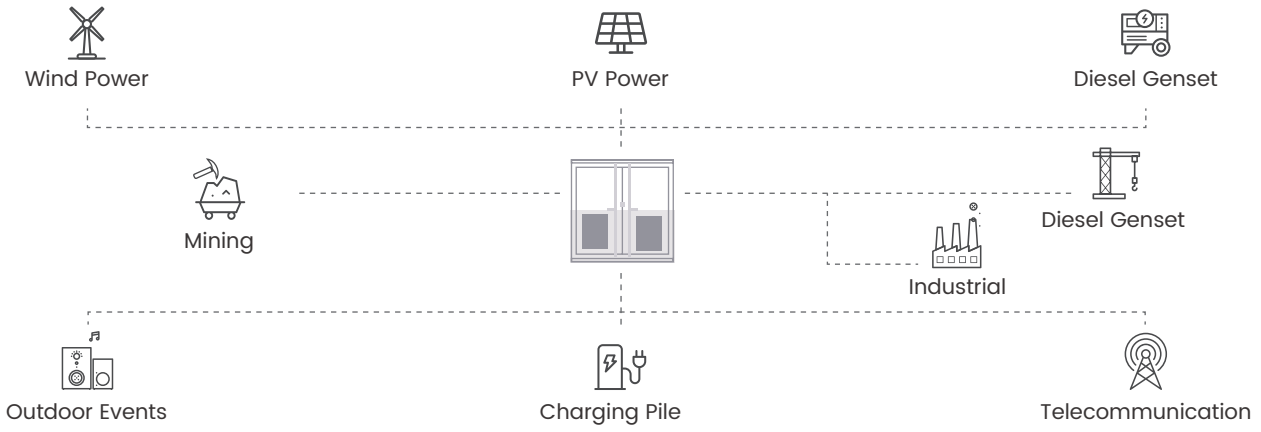
- All-in-one solution within a 10ft container
- Space utilization rate of 93%
- Modular design featuring plug-and-play functionality

Safe, Environmentally Friendly and Highly Adaptable

- Four-layer fire protection system
- Zero CO_2 and NOx emissions
- Quiet operation with a noise level below 75dB
- Integrating diverse energy sources with flexibility

Smart and Visualized Energy Management System

- Cloud-based EMS platform
- Remote monitoring through mobile APP or weblink
- User-centric interface and robust data analysis capabilities



Model	NAVY 606
Electrical Parameters	
Cell Type	LFP-300Ah
Cell Cycle Life	>8000
Rated Voltage (Vdc) of Single Cell	3.2
Pack Configuration	1P44S
Rack Configuration	1P220S
System Configuration	3P220S
System Nominal Energy (kWh)	633
System Rated Voltage (Vdc)	704
System Voltage Range (Vdc)	616~792
System Output Voltage (Vac)	400@50Hz/60Hz
System Rated Power (kW)	400
Charge / Discharge Rate	charge 0.5P/discharge 0.67P@25° C
Components	
High Voltage Box	Integrated in Control Box
Confluence Cabinet	
Monitoring System (HMI)	Integrated
Fire Suppression System	Temperature/Smoke detection + PACK-level submerged fire extinguishing+Aerosol +Water sprinkler system
Thermal Management System	Integrated Liquid Cooler, 12kW cooling capacity
Conditions	
Storage Temperature (° C)	-30~60
Working Ambient Temperature (° C)	-20~45 (>45 Derating)
Working Relative Humidity (%)	0~95 (Non-condensing)
Working Altitude (m)	≤ 2000 (>2000 Derating)
Other Parameters	
Max. Parallel Sets	4
Ingress Protection	IP55
Communication Interface	CAN, RS-485, Ethernet
Communication Protocol	CAN, Modbus-TCP/IP, Modbus RTU, MQTT
Dimensions (L×W×H) mm	2991×2438×2896
Weight (t)	≈ 12
Standards & Certification	
UL	/
IEC	/
Transportation	UN38.3, UN3536

* Support for Extended Integration

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Gotion HOME 5/10/15/20kWh

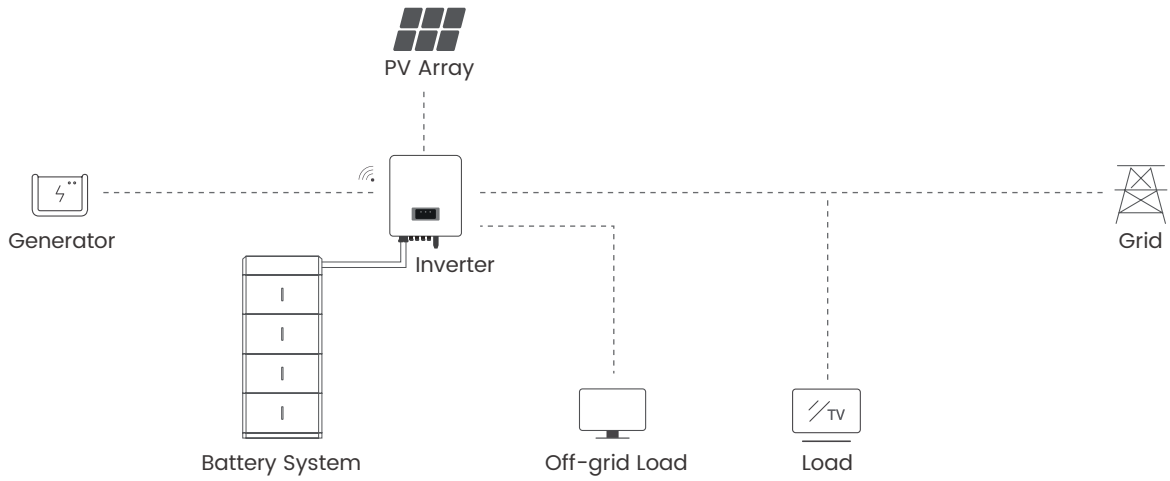
Lithium-ion Battery Residential ESS



Products Superiority

- Stable and Secure LFP Battery
- Cell/Module/System Triple Protections
- Modular Design
- Extendable Application
- Easy to Handle, 30mins Quick Install
- Ground Stand or Wall Mounted
- IP65, Household Friendly
- Covers an Area of 0.16m^2

Application Scenario Diagram



Model	HSD51.2-02C05L	HSD51.2-02C10L	HSD51.2-02C15L	HSD51.2-02C20L
Electrical Parameters				
Quantity of Packs	1	2	3	4
Rated Voltage (Vdc)	51.2			
Voltage Range (Vdc)	43.2~56.8			
Nominal Energy (kWh)	5	10	15	20
Usable Energy (kWh)	4.8	9.8	14.7	19.6
Max. Output Power (kW)	2.5	5	5	5
Conditions				
Working Environment Temp (°C)	-20~45			
Working Temp (°C)	Charge:0~53 Discharge: -20~58			
Working Humidity Range (%)	5~95 (non-condensing)			
Altitude (m)	<3000 (≥3000 derating)			
Installation Environment	Indoor/Outdoor			
Other Parameters				
Max. Parallel Sets	16	8	5	4
Communication Interface	CAN, RS-485			
Certification	IEC62619, IEC60730, IEC63056, UL9540, UL9540A, UL1973, UL60730, UN38.3, IEC 61000-6-3			
Ingress Protection	IP65			
Dimensions (W×D×H) mm	705×239×528	705×239×846	705×239×1164	705×239×1482
Weight (kg)	67	120	170	220

* Test conditions (usable energy): 100% depth of discharge (DoD), 0.2P rate charge & discharge at 25°C
* Charge/discharge derating occurs when the operating temperature below 5°C or over 45°C

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Battery Cells

LFP Energy Storage Cell



• IFP20100140A-30Ah



• IFP27175200A-100Ah



• IFP50160116A-102Ah

Model	IFP20100140A-30Ah	IFP27175200A-100Ah	IFP50160116A-102Ah
Electrical Parameters			
Cell Type	LFP-30Ah	LFP-100Ah	LFP-102Ah
Rated Voltage (V)		3.2	
Working Voltage (V)		2.0~3.65(T > 0° C)	
Cycle Life	>3000	>8000	>6000
Charge/Discharge Rate	1P@25° C	0.5P@25° C	0.5P@25° C
DCR (mΩ)	≤ 3	≤ 1.5	≤ 1.5
ACR (mΩ)	0.6~1.2	0.4~0.6	0.27~0.4
Weight Energy Density (Wh/kg)	≥ 166	≥ 155	≥ 168
Conditions			
Storage Temp (° C)		-30~60	
Optimum Working Temp (° C)		10~35	
Charge Temp Range (° C)		0~55	
Discharge Temp Range (° C)		-30~60	
Other Parameters			
Certification	UL1973, UL9540A, UN38.3	UL1973, UL9540A, UN38.3, GB/T 36276	UL1973, UL9540A, UL1642, UN38.3, IEC62619, RoHS2.0, MSDS
Dimensions (T×W×H) mm	21.2×100×144	27.2×175.4×206.1	49.9×160×118.5
Weight (g)	615±18	2022±60	1970±30

Battery Cells

LFP Energy Storage Cell



• IFP81175200-300Ah



• IFP72175207-314Ah



• IFP81175200-330Ah

Model	IFP81175200-300Ah	IFP72175207-314Ah	IFP81175200-330Ah
Electrical Parameters			
Cell Type	LFP-300Ah	LFP-314Ah	LFP-330Ah
Rated Voltage (V)		3.2	
Working Voltage (V)		2.5~3.65(T > 0° C)	
Cycle Life	>8000	>12000	>12000
Charge/Discharge Rate	0.5P@25° C	0.5P@25° C	0.5P@25° C
DCR (mΩ)	≤ 0.5	0.3~0.5	0.3~0.5
ACR (mΩ)	0.1~0.3	0.15~0.3	0.1~0.3
Weight Energy Density (Wh/kg)	≥ 160	≥ 178	≥ 170
Conditions			
Storage Temp (° C)		-30~60	
Optimum Working Temp (° C)		15~35	
Charge Temp Range (° C)		0~55	
Discharge Temp Range (° C)		-30~60	
Other Parameters			
Certification		UL1973, UL9540A, UN38.3, GB/T 36276, IEC62619	
Dimensions (T×W×H) mm	81.0×175.4×202.5	71.95×174.8×207.1	81.0×175.4×202.5
Weight (g)	5998±300	5630±200	6140±300

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Standard Pack

LFP Battery Storage Module



• EPD51-05P20 • EPD140-05P42 • EPD332-05P104 • EPD320-05P105

Model	EPD51-05P20	EPD140-05P42	EPD332-05P104	EPD320-05P105
Electrical Parameters				
Cell Type	LFP-100Ah	LFP-300Ah	LFP-314Ah	LFP-330Ah
Configuration	4P16S	1P44S	1P104S	1P100S
Rated Voltage (Vdc)	51.2	140.8	332.8	320
Voltage Range (Vdc)	40.0~58.4	110.0~160.6	260.0~379.6	250.0~365.0
Nominal Energy (kWh)	20.48	42.24	104.49	105.60
Charge/Discharge Rate	≤0.5P@25℃			
Conditions				
Charge Working Temp Range (℃)	0-55			
Discharge Working Temp Range (℃)	-30~60			
Optimum Working Temp (℃)	15-35			
Operating Humidity Range (%)	≤95			
Installation Environment	Indoor			
Other Parameters				
Communication Interface	CAN			
Certification	UL1973, UL9540A, UN38.3, GB/T 36276			
Ingress Protection	/	IP67		
Dimensions (W×D×H) mm	390×975×245	787×1085×235	2170×785×243	2350×785×240
Weight (kg)	160±5	313±5	720±5	705±5

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GRID-R

LFP Battery Rack



• ERD1267-05P380
(Liquid Cooling)



• ERD1331-05P418
(Liquid Cooling)

Advantages of Products

- **High Reliability and Safety**
- **Multi-level BMS Structure**
- **Soft Start Function**
- **1500V DC System**
- **Easy Installation and Maintenance**
- **Smart Insulation Monitoring**

*The image illustrates two electrical racks physically mounted together to fit into the container, and one electrical rack comprises four battery packs connected in series.

Model	ERD1267-05P380	ERD1331-05P418
Electrical Parameters		
Cell Type	LFP-300Ah	LFP-314Ah
Pack Configuration	1P44S	1P104S
Rack Configuration	1P396S	1P416S
System Nominal Energy (kWh)	380.1	417.99
System Rated Voltage (Vdc)	1267.2	1331.2
System Voltage Range (Vdc)	990.0-1445.4	1040~1497.6
Maximum Charge / Discharge Rate	0.5P@25° C	
Conditions		
Optimum working Temperature (° C)	15~35	
Working Relative Humidity (%)	0~95(Non-condensing)	
Other Parameters		
Cooling Mode	Liquid-cooling	
Communication Interface	CAN	
Dimensions (L×W×H)mm	896×1065×2385	978×1050×2188
Weight (kg)	3110±80	3000±100
Standards &Certification		
Chinese Standards&Certification	GB/T 36276	
UL	UL1973 UL9540A	
IEC	IEC 62477-1, IEC 61000-6-2, IEC 61000-6-4, IEC 63056, IEC 62619, IEC 60730-1	IEC 62619, IEC 63056

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Smart Mobile Charger



Product Advantages

Innovation and Revolution

- From "car-to-charger" to "charger-to-car"
- Unrestricted by time, space and specific sites

Flexibility and Intelligence

- Flexible deployment
- Remote operation and management

Safety and Fast Charging

- Stable operation and proactive protection
- One-click ordering, seamless charging
- High-rate & high-power charging

Energy Storage and Cost-Effectiveness

- Peak-shaving and valley-filling with small-scale "energy storage stations"
- Free from grid and site reconstruction

Application Scenarios

Airport

Railway Station

Expressway Service Area

Business Park

Paid Parking

Logistics Park

Residential District

Public Parking

Parameters		
Maximum Power (kWh)	184.32	
Battery Capacity (Ah)	300	
AC Input	Input Voltage Range (Vac)	260~530
	Maximum Input Current (A)	43
	Input Connection Method	3P+N+PE
DC Output	Output Voltage Range (Vdc)	300~1000
	Maximum Output Current (A)	150
	Maximum Output Power (kW)	60
	Efficiency	92%
DC Input	Input Voltage Range (Vdc)	260~900
	Maximum Input Current (A)	150
	Maximum Input Power (kW)	60
Ambient Temperature Range (°C)	-30~50	
Ingress Protection	IP54	
Communication Interface	Wireless Communication	
Communication Agreements with Vehicles	DIN SPEC 70122:2008	
Software Configuration	The charging protocol is self-applicable and expandable	
Charging Method	Swipe card/Touch screen/Scan the QR code	
Charging Connector	CCS1, CCS2	
Maximum Speed (Km/h)	5	
Maximum Gradient	8% with full load	
Maximum Obstacle-crossing Height	70mm speed bump	
Dimensions (L×W×H)(mm)	2100×1054×1400	
Weight (kg)	2150	

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Model	Home 3000	Go 300	Micro 30
Product Name	Home 3000 Portable Power Station	Go 300 Portable Power Station	Micro 30 Power Bank
Capacity	3072Wh (51.2V, 30Ah)	288Wh (19.2V, 15Ah)	15000mAh (3.2V, 15Ah)
AC Output	3000W Total, 6000W Surge	300W Total, 600W Surge	22.5W Max
Cell Chemistry	EV-Proven LiFePO4	EV-Proven LiFePO4	EV-Proven LiFePO4
AC Charge	Max 1800W, 120V, 15A (US)	Type C Charging 140W	/
Solar Charge	Max 1500W, 12-75V	Max 200W, 12-30V/10A	/
DC Port	Type-C(PD3.1), USB-A, RV, DC5521	Type-C×2 (PD3.1), USB-A×2(18W)	Type-C Input: 5V/3A 9V/2A Type-C Output: 5V/3A 9V/2A 12V/1.67A USB-A Output: 5V/3A 5V/4.5A 12V/1.5A
Dimensions (L×W×H)	560×230×543mm/22.0×9.1×21.4in	210×200×158mm/8.26×7.87×6.22in	47×50×156mm/1.8×1.96×6.1in
Net Weight	83.8lbs/38kg	7.7lbs/3.5kg	1.05lbs/0.48kg
Wireless Charging	2×15W	1×15W	Magnetic Charging
Amazon Alexa/ Google Nest	Support	Support	NO



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Gendome Solar 200

Power Everything Connect Everywhere

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

amazon alexa





Model	Solar 200	Solar 36
Product Name	Solar 200 Solar Panel	Solar 36 Solar Panel
Connector Type	DC2050 to MC4	Type C / USB-A
Included Components	1x 200W Solar Panel, MC4 Solar Charging Cable	1x 36W Solar Charger, 1x USB-A to USB-C Cable, 2x Carabiner
Color	Grey	Grey
Mounting Type	Portable and Folding	Portable and Folding
Solar Cell	High Efficiency Silicon (Sunpower)	High Efficiency Silicon (Sunpower)
Transformation Efficiency (EFF)	≥ 23%	≥ 23%
Max Power	200W	36W
Water-Resistant	IP68	IP68
Ports	DC2050 to MC4	PD3.0 5V 3A/9V 3A/12V 3A(MAX)
Certification	FCC/CE/RoHS/IP68	FCC/CE/RoHS/IP68
Dimensions (unfolded)	1249×450×50mm/49.2×59.7×1.0in	846×280×12.5mm/33.3×11×0.49in
Dimensions (folded)	330×430×50mm/13.0×16.9×2.0in	198×280×30.5mm /7.8×11×1.2in
Net Weight	9.55lbs/4.33kg	1.8lbs/0.67kg

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Project Cases



U.S. Storage Project



Netherlands EPC Company Project



PJM FM Project in the U.S.



Europe Storage Project



Shandong Weihai Project



Datang Longgan Lake Energy Storage Power Station Project



Anhui Jinzhai Independent Energy Storage Power Station Project



Shangneng Zhangjiakou Solar Energy Storage Project



Tibet Light Storage Comprehensive Energy Project



Hefei Lujiang ESS Plant



Huaneng Wind Energy Storage Frequency Modulation Project



State Grid Zhenjiang Changwang Energy Storage Project



Shenzhen Nanshan Power Plant
Frequency Modulation Project



Huaibei Wanneng Energy Storage
Power Station Project



Kunshan Industrial Park Energy
Storage Project



Zhangjiagang Yonglian Steel Plant
Energy Storage Power Station Project

Responsibility 2023 Performance

Gotion High-tech Won the "2023 Five-Star Gold Award " for Social Responsibility of Listed Companies in China's Manufacturing Industry

9,658
hours of various types of training were organized

Number of Training Participants
82,100

"Five-star" Service Certificate
by the China Quality Certification Center (CQC)
with a Score of 98.5

The World's
First
Zero-carbon Cathode Material Base

Occupational Health and Safety System Certificate
ISO14001
ISO45001

Greenhouse Gas Verification Statement Customer Satisfaction
ISO14064

PV power generation
49,650,000 kWh

Greenhouse gas emission reduction
35976.67 Tons of carbon dioxide equivalent

Energy-saving and Consumption-reducing Projects
123

Saving
95,620,000 Tons of Carbon Emissions

Number of training sessions YoY growth rate
44.7%

Training hours YoY growth rate
107%

Total instances YoY growth rate
74.8%

Data as of Dec. 2023.



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

80+ Regional Specialists

300+ Regional Professional Service Providers

600+ Professional Service Stations

Global Accessory System

Timely Delivery

80+ Spare Parts Wehouses

6 Overseas Sub-warehoues (coming soon in 2024 H2)