



工商业储能解决方案

COMMERCIAL AND INDUSTRIAL ESS >>>

COMPANY INTRODUCTION

企业简介

Wuxi Hongsheng New Energy Co., Ltd. was officially established in 2021, a high-tech enterprise wholly owned by listed company Hongsheng Shares, which is committed to providing new energy system solutions for the world. The company has a large number of experienced R & D personnel, specializing in battery system software and hardware product development, focusing on industry-wide deployment of advanced energy storage systems and large-scale power battery systems to provide customers with more efficient and reliable customized solutions.

Main products:

- Integrated optical storage, charging and inspection
- Industrial and commercial energy storage
- Large-scale power storage
- Towing storage
- Intelligent home storage system
- Portable energy storage

PRODUCT OVERVIEW

产品总览



Hongsheng New Energy launched energy storage system integration products for different industries. This series of products integrates lithium iron phosphate battery system, energy management system, energy storage inverter system, liquid cooling control system and other equipment. According to different industries, enterprises of different sizes optimize the allocation of electricity to achieve renewable energy generation. At the same time, the system supports the parallel use of multiple machines, which is suitable for multi-scenario application of peak cutting and valley filling, AC capacity expansion, enterprise-class UPS, power guarantee and other AC equipment expansion (charging pile, generator, etc.).



G-series

G20

G20P



E-series

E200

E400



S-series

S10P

S20P

PRODUCT FEATURES

产品优势



● Boost power

Active and reactive power control can be realized to optimize power supply quality

● Emergency backup

When the network is disconnected, it can be used as a black start emergency backup power supply support and off-grid switching, continuous power supply for external loads

● Rapid operation

Flexible deployment, shorten the construction period Remote monitoring, convenient operation and maintenance

● Reduce cost

Cut peak and fill valley to achieve peak and valley arbitrage

● High security

Lithium iron phosphate battery, high safety, long life liquid cooling system equipped with perfluorohexanone electric box fire protection

● Flexible capacity expansion

Supports rapid expansion, provides a variety of access schemes, supports 380V, 690V and other power grid access

● Consume green electricity

Improve the ability to absorb green electricity on the spot and improve efficiency

● High fit

Suitable for all AC loads or AC power generation equipment

● Expandability

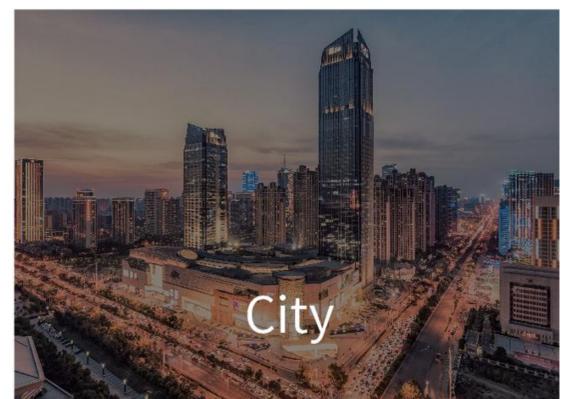
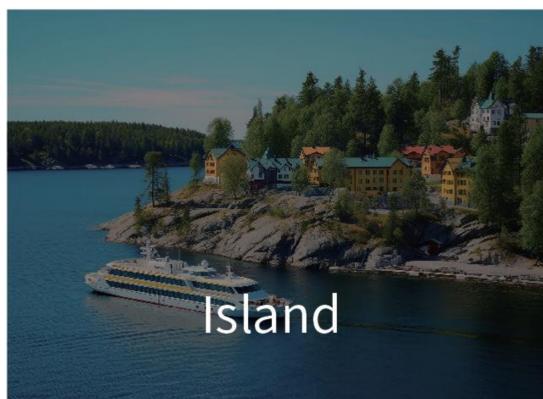
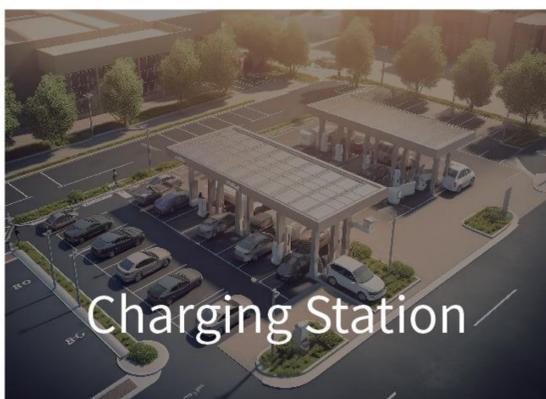
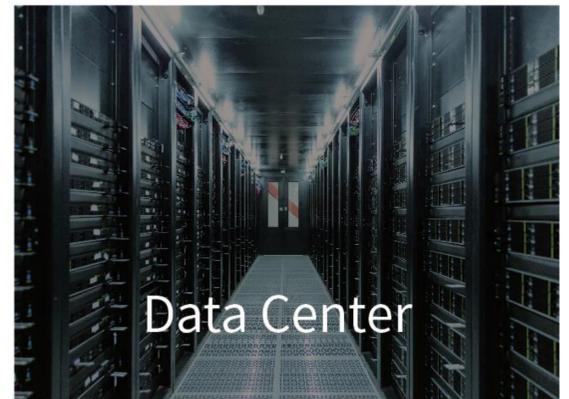
Can be connected to external equipment DC charging pile, DC photovoltaic DC load

PRODUCT APPLICATIONS

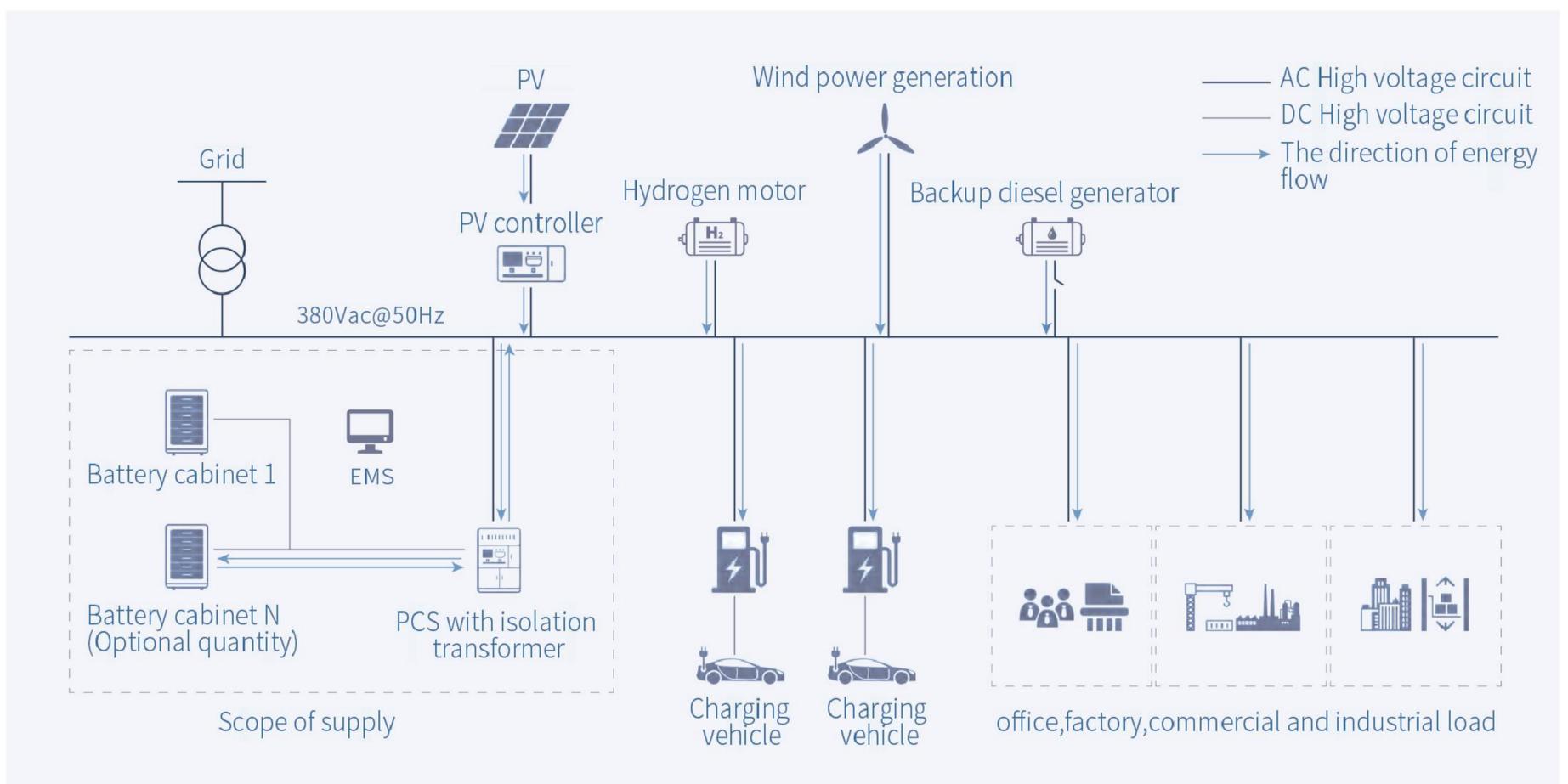
产品应用



> Applications



> Diagram



CELL STRENGTHS

电芯优势

● Lithium iron phosphate cell

Cycle times >8000(25°C, 0.5C charge and discharge)

With material safety, electrical safety, system safety as the core basis of product development and manufacturing, to ensure the safety and reliability of the whole life cycle. Excellent performance to meet the needs of long-term high-frequency use.

● Automated production

Good consistency

Maximize charge and discharge, extend service life, and protect electricity pool health.

● BMS Battery management system

Charge and discharge control protection

Grasp the battery status in real time to ensure the battery is safe and reliable.

● High standard battery technology

Stable and safe

Safe and long life LFP material, suitable for high frequencies, application scenarios with high security requirements.



● Advanced cell chemistry technology

long-life

Material handling | Optimizes positive and negative electrode and electrolyte formulations

Structural treatment | Graphite with special structure

Process treatment | surface special process optimization, improve the coating effect

● Comprehensive test

Experimental proof



Squeeze verification / Fire verification / Impact verification / Withstand voltage verification

SYSTEM STRENGTHS

系统优势

● The whole system is equipped with products

Explosion-proof fire fighting equipment
Explosion-proof ventilation pressure relief valve, explosion-proof CO detector explosion-proof temperature detector and explosion-proof smoke detector; Containerized products are specially equipped with an explosion-proof H₂ detector to monitor the system environment 24/7

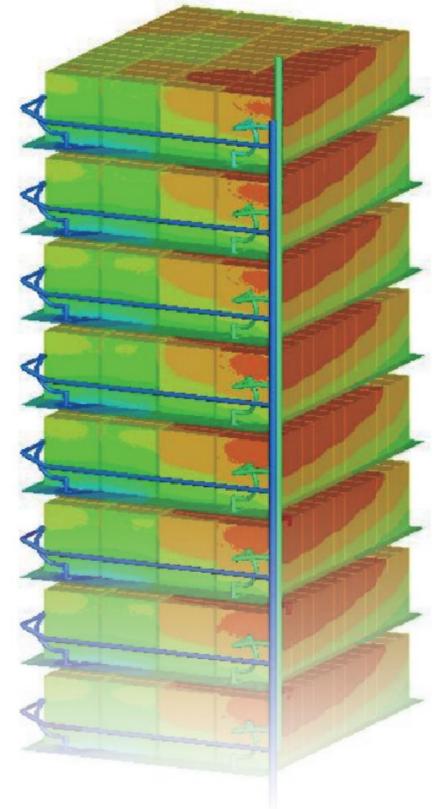
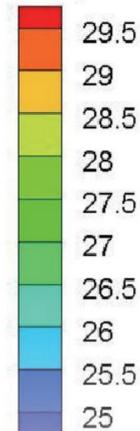
● Electrical box module level fire protection

High security
The liquid cooling system is equipped with modular fire protection and equipped with American standard special perfluorhexanone fire extinguishing agent to fully meet the fire protection requirements of GB/T 42288-2022 electrochemical energy storage power station safety regulations

● Microgrid control

Intelligent allocation of AC Intranet energy flow
The intelligent algorithm EMS system can control the energy storage output and output according to the actual situation of the AC Intranet to achieve the effect of anti-reverse flow and power following

Temperature(C)



● Liquid cooling system

Improve battery efficiency
The liquid cooling system improves the heat dissipation efficiency, reduces the power loss, and reduces the temperature difference of the battery cell. The temperature difference of the system is less than 4°C at 0.5C, which increases the battery life of the whole life cycle

● Modular design

Flexible configuration
It is easy to apply and maintain, and can flexibly configure the capacity of savings units as needed

ENERGY MANAGEMENT SYSTEM

EMS能量管理系统



BIG DATA PLATFORM

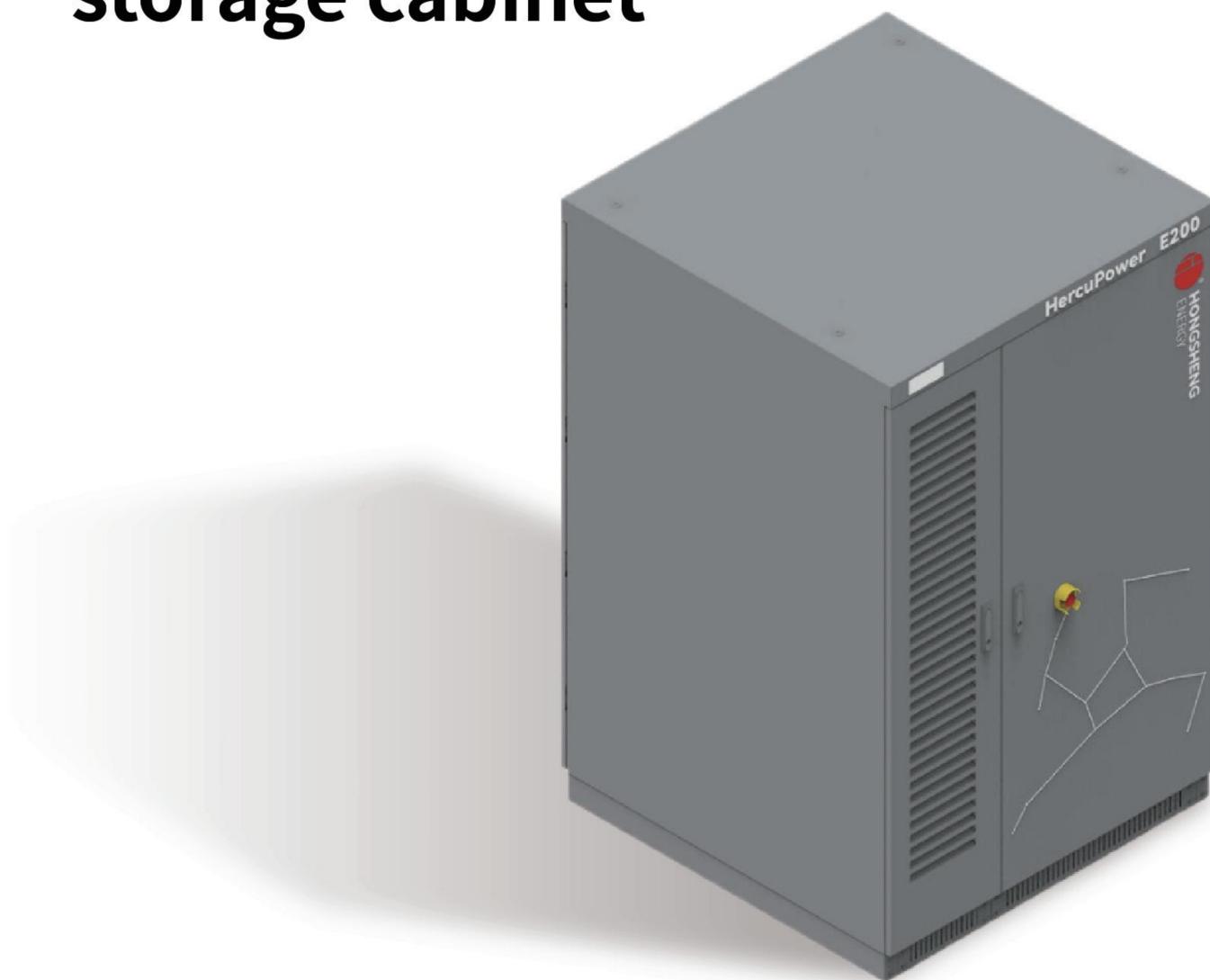
大数据云平台



E200-HSN-ESS



Hercu Power Liquid cooled energy storage cabinet



Full scenario application

Applicable to charging stations, commercial centers, residential areas, 4S stores and other scenarios

High integration

Single cabinet integrated battery, EMS, PCS, fire..... Plug and play, power can be run

High conversion efficiency

Full electric cabinet liquid cooling energy conversion efficiency of up to 90%

High security

Iron phosphate energy storage battery is safe and stable, long life

High flexibility

It occupies less than 1.6m² and supports multiple cabinets in parallel for easy installation and expansion

High level of protection

The protection grade of perfluoroacetone electric box is IP67

E200-HSN-ESS



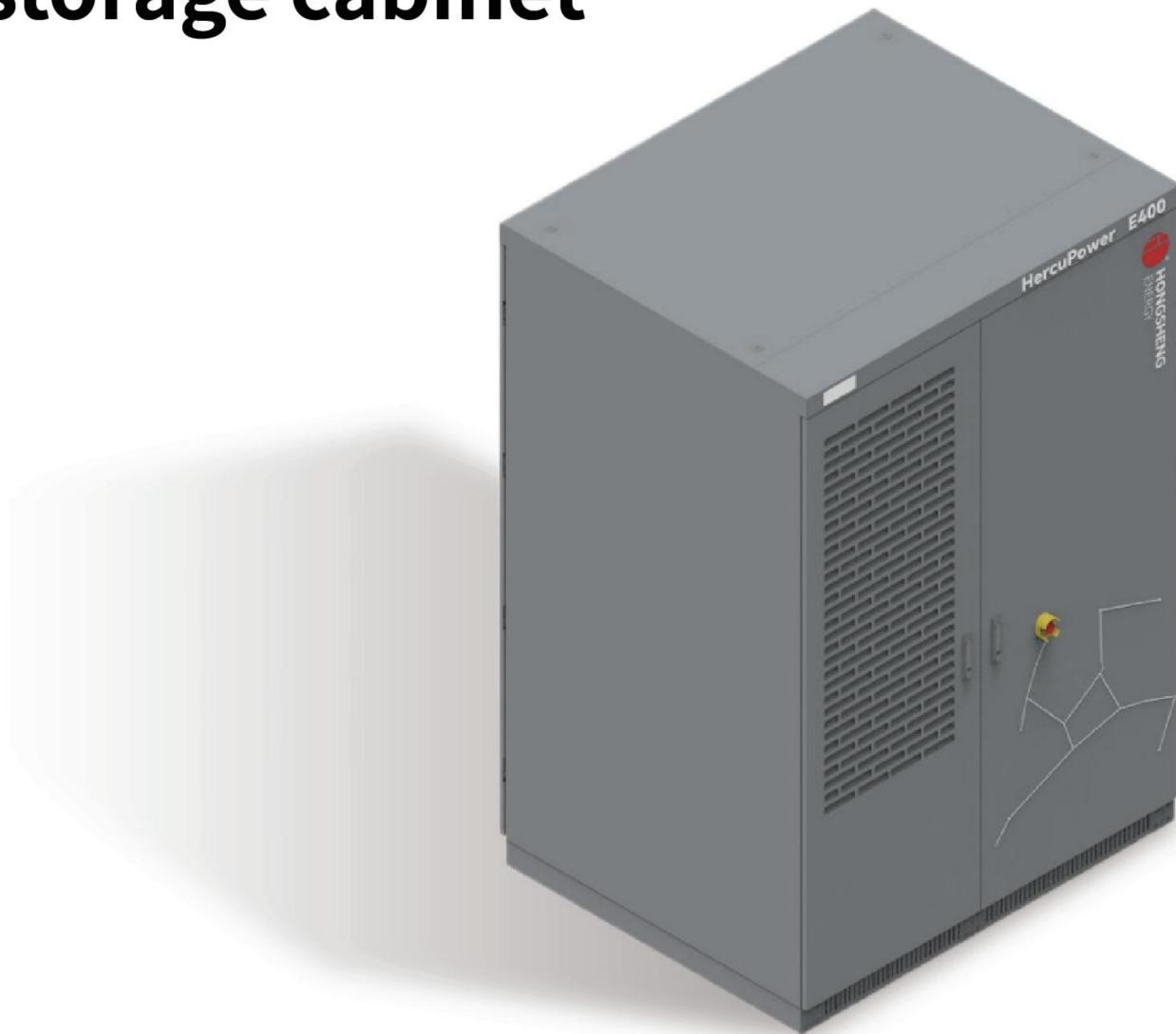
Hercu Power Liquid cooled energy storage cabinet

Model number	E200-HSN-ESS
Energy storage capacity	215kWh/233kWh/249kWh
Rated power	105KW/120KW
Grid access parameters	380Vac@50Hz
Auxiliary power supply	~7.5kW
Battery management system	integration
Battery type	Iron phosphate substrate battery
Maximum charge and discharge ratio	0.5C/0.5C (sustainable)
Cooling mode	Liquid cooling
Protection level of electric box	IP65
Operating temperature	-25~55°C
Relative humidity	0~95%, no condensation
Fire protection system	Precision fire protection (up to electrical box level)
Operating temperature difference	≤4°C (national standard condition, 0.5C charge and discharge)
Battery compartment protection level	IP54
Communication mode	Ethernet (optional 4G)
Main configuration	280Ah battery core, PCS system, liquid cooling system, fire fighting system
Size (L*W*H) (mm)	1250*1280*2200
Weight	~2.5T
Cell type	3.2V280Ah
Cell cycle life	≥8000次 (25°C, 0.5C charge and discharge)

E400-HSN-ESS



Hercu Power Liquid cooled energy storage cabinet



Full scenario application

Applicable to charging stations, commercial centers, residential areas, 4S stores and other scenarios

High integration

Single cabinet integrated battery, EMS, PCS, fire..... Plug and play, power can be run

High conversion efficiency

Full electric cabinet liquid cooling energy conversion efficiency of up to 90%

High security

Iron phosphate energy storage battery is safe and stable, long life

High flexibility

It occupies less than 2m² and supports multiple cabinets in parallel for easy installation and expansion

High level of protection

The protection grade of perfluoroacetone electric box is IP67

E400-HSN-ESS



Hercu Power Liquid cooled energy storage cabinet

Model number	E400-HSN-ESS
Energy storage capacity	372kWh/400kWh
Rated power	200KWh
Grid access parameters	380V/690Vac @50Hz
Auxiliary power supply	~7.5kW
Battery management system	integration
Battery type	Lithium iron phosphate Battery
Maximum charge and discharge ratio	0.5C/0.5C (sustainable)
Cooling mode	Liquid cooling
Protection level of electric box	IP65
Operating temperature	-25~55°C
Relative humidity	0~95%, no condensation
Fire protection system	Precision fire protection (up to electrical box level)
Operating temperature difference	≤4°C (national standard condition, 0.5C charge and discharge)
Battery compartment protection level	IP54
Communication mode	Ethernet (optional 4G)
Main configuration	280Ah battery core, PCS system, liquid cooling system, fire fighting system
Size (L*W*H) (mm)	1250*1580*2400
Weight	~3.5T
Cell type	3.2V280Ah
Cell cycle life	≥8000次 (25°C, 0.5C charge and discharge)

G20-HSN-ESS

Liquid cooled energy storage system



Full scenario application

It is suitable for high-energy-consuming enterprises charging stations, centralized power supply and other scenarios

High integration

20ft cabinet integrated battery, EMS, PCS, fire..... Plug and play, power can be run

High conversion efficiency

Full electric cabinet liquid cooling energy conversion efficiency of up to 90%

High security

Iron phosphate energy storage battery is safe and stable, long life

High flexibility

With an area of less than 20m², multiple cabinets can be connected in parallel for easy installation and expansion

High level of protection

The protection grade of perfluoroacetone electric box is IP67

G20-HSN-ESS



Liquid cooled energy storage system

Model number	G20-HSN-ESS
Energy storage capacity	3350kWh
Rated power	\
Grid access parameters	\
Auxiliary power supply	~20kW
Battery management system	Integration
Battery type	Lithium iron phosphate Battery
Maximum charge and discharge ratio	0.5C/0.5C (sustainable)
Cooling mode	Liquid cooling
Protection level of electric box	IP65
Operating temperature	-25~55°C
Relative humidity	0~95%, no condensation
Fire protection system	Precision fire protection (up to electrical box level)
Operating temperature difference	≤4°C (national standard condition, 0.5C charge and discharge)
Battery compartment protection level	IP54
Communication mode	Ethernet (optional 4G)
Main configuration	280Ah battery core, liquid cooling system, fire fighting system, PCS system, isolation transformer, energy storage prefabrication compartment
Size (L*W*H) (mm)	6058*2438*2896
Weight	~25T
Cell type	3.2V280Ah
Cell cycle life	≥10000次 (25°C, 0.5C charge and discharge)

G20P-HSN-ESS



Liquid cooled energy storage system

Model number	G20P-HSN-ESS
Energy storage capacity	2600kWh
Rated power	1000kW/1260kW
Grid access parameters	380Vac@50Hz
Auxiliary power supply	~20kW
Battery management system	Integration
Battery type	Lithium iron phosphate Battery
Maximum charge and discharge ratio	0.5C/0.5C (sustainable)
Cooling mode	Liquid cooling
Protection level of electric box	IP67
Operating temperature	-25~55°C
Relative humidity	0~95%, no condensation
Fire protection system	Precision fire protection (up to electrical box level)
Operating temperature difference	≤4°C (national standard condition, 0.5C charge and discharge)
Battery compartment protection level	IP54
Communication mode	Ethernet (optional 4G)
Main configuration	280Ah battery core, liquid cooling system, fire fighting system, PCS system, isolation transformer, energy storage prefabrication compartment
Size (L*W*H) (mm)	6058*2438*2896
Weight	~25T
Cell type	3.2V280Ah
Cell cycle life	≥10000次 (25°C, 0.5C charge and discharge)

S10P-HSN-ESS

Air-cooled energy storage system



Full scenario application

Applicable to charging stations, small businesses, commercial expansion and other scenarios

High integration

10 feet container battery, EMS, PCS, fire..... Plug and play, power can be run

High conversion efficiency

Full electric cabinet liquid cooling energy conversion efficiency of up to 90%

High security

Lithium iron phosphate energy storage battery is safe and stable, long life

High flexibility

It occupies less than 10m² space and supports multiple cabinets in parallel for easy installation and expansion

High level of protection

The protection grade of perfluoroacetone electric box is IP67

S10P-HSN-ESS



Air-cooled energy storage system

Model number	S10P-HSN-ESS
Energy storage capacity	645kWh
Rated power	300kW
Grid access parameters	380Vac@50Hz
Auxiliary power supply	~20kW
Battery management system	Integration
Battery type	Lithium iron phosphate Battery
Maximum charge and discharge ratio	0.5C/0.5C (sustainable)
Cooling mode	Air cooling
Protection level of electric box	IP20
Operating temperature	-25~55°C
Relative humidity	0~95%, no condensation
Fire protection system	Precision fire protection (electrical cabinet class)
Operating temperature difference	≤8°C (national standard condition, 0.5C charge and discharge)
Battery compartment protection level	IP54
Communication mode	Ethernet (optional 4G)
Main configuration	280Ah battery core, air cooling system, fire fighting system, PCS system, isolation transformer, energy storage prefabrication compartment
Size (L*W*H) (mm)	3500*2438*2896
Weight	~6T
Cell type	3.2V280Ah
Cell cycle life	≥8000次 (25°C, 0.5C charge and discharge)

S20P-HSN-ESS



Air-cooled energy storage system

Model number	S20P-HSN-ESS
Energy storage capacity	1075kWh
Rated power	500kW/630kW
Grid access parameters	380Vac@50Hz
Auxiliary power supply	~20kW
Battery management system	Integration
Battery type	Lithium iron phosphate Battery
Maximum charge and discharge ratio	0.5C/0.5C (sustainable)
Cooling mode	Air cooling
Protection level of electric box	IP20
Operating temperature	-25~55°C
Relative humidity	0~95%, no condensation
Fire protection system	Precision fire protection (electrical cabinet class)
Operating temperature difference	≤8°C (national standard condition, 0.5C charge and discharge)
Battery compartment protection level	IP54
Communication mode	Ethernet (optional 4G)
Main configuration	280Ah battery core, air cooling system, fire fighting system, PCS system, isolation transformer, energy storage prefabrication compartment
Size (L*W*H) (mm)	6058*2438*2896
Weight	~10T
Cell type	3.2V280Ah
Cell cycle life	≥8000次 (25°C, 0.5C charge and discharge)

EXAMPLE CASES

示范案例



Hongsheng Group industrial and commercial energy storage project
System specification: 1MW/1.5MWh



Wenzhou micro enterprise industrial and commercial energy storage project
System specifications: 300kW/645kWh



Government industrial and commercial energy storage project
system specifications: 500kW/1075kWh



Hunan big data center industrial and commercial energy storage project
System specifications: 13.5MWh



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