

HUAXING

华兴新能源

# Shenzhen Huaxing New Energy Technology Co., Ltd.







HUAXING



**Shenzhen Huaxing New Energy Technology Co., Ltd.**

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## HUAXING Product Series

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## Company Introduction

Based in China, Shenzhen Huaxing New Energy Technology Co., Ltd. (hereinafter referred to as Shenzhen Huaxing) is a wholly-owned subsidiary of Hunan Pengbo New Raw Materials Co., Ltd., a leading provider of cathode materials. Shenzhen Huaxing specializes in the development, manufacturing, and sale of lithium system.

Shenzhen Huaxing integrated its sister company's cells and its partner's solar panel & inverter. This integration allows us to offer superior battery solutions, which have earned us a top position in the new energy field.

The company's brands, Huaxing and Battlink, continuously provide innovative solutions for various applications, including solar lighting, mobility, golf carts, residential, and commercial energy storage systems (ESS).



Global Staff  
**200+**

Annual  
Production Capacity  
**1GWh+**

Factory Area  
**10000m<sup>2</sup>+**

Product Range  
**12V-1500V**

## Application

Solar street light, low speed vehicle, telecommunication station, wind/solar energy storage, residential/commercial/industrial energy storage, peak shaving, frequency regulation, back up power etc.



## Quality Assurance

The company's products have a number of intellectual property certificates;  
the products have passed various certifications such as UL, IEC, CE, UN38.3, and MSDS.



## Quality Assurance

The company has a professional quality supervision team, perfect quality process and scientific management methods. From R&D design, materials purchasing, inspection and testing, process control to finished product shipment, it strictly follows the requirements of the quality management system, to ensure stability, safety and reliability.

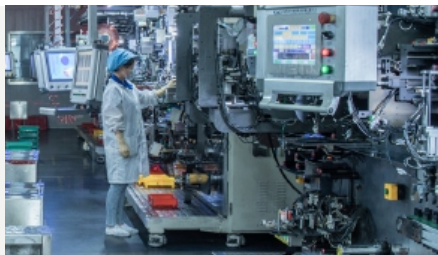




## R&D Team

Full scene  
laboratory

6+



Annual R&D investment

Focus on technological innovation, R&D investment accounts for the company core costs and strategic position

>5%

Advanced analytical instruments

Full range of detection and analysis capabilities; Meet national and international standards

40+

R & D Team

40+

It is composed of a team of engineers with senior experience in the fields of electrochemistry, structure, electronics electrical, and system integration, and has a number of patents and core technologies

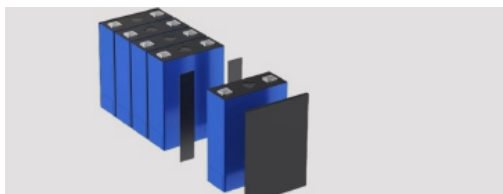


## Key Technology



### Self-developed Cells

The LiFePO<sub>4</sub> cells independently developed and produced by the brother company, has the characteristics of high safety and long cycle



### Self-developed BMS

Independent research and development of battery system control logic, greatly improve the safety of the battery system and battery life



### Customized Product Design

With more than 10 years of R&D team and a complete supply chain system, we can customize products according to customer needs



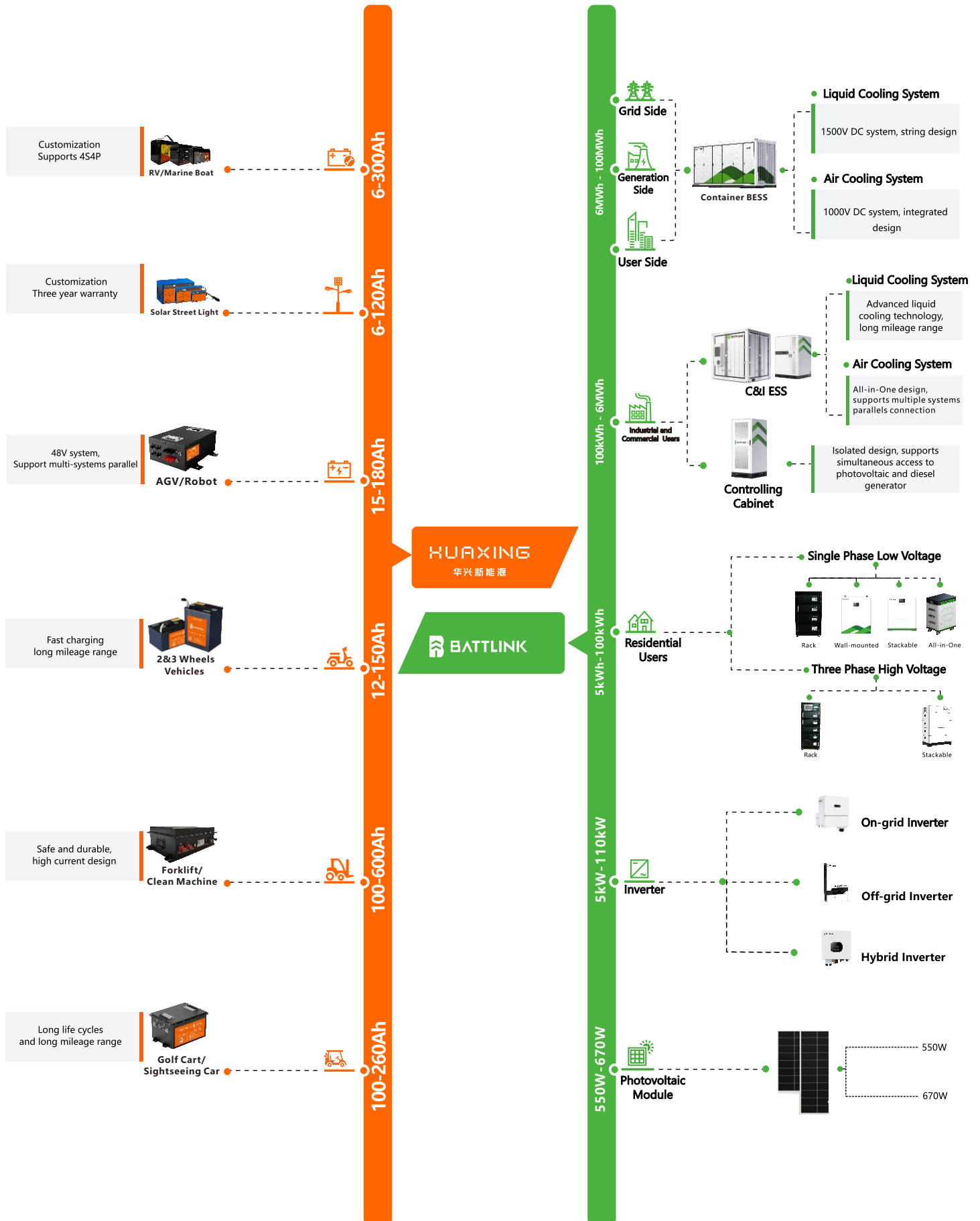
### Modular Design of Energy Storage

Residential energy storage, industrial and commercial energy storage and other energy storage systems adopt modular design, system collocation, expansion is convenient, quick installation





# Products and Solutions





## Container ESS



String-connected  
Liquid Cooling



DC Side

## C&I ESS



Smart C&I Energy  
Storage System



C&I Photovoltaic  
Energy Storage System



Controlling  
Cabinet

## Residential ESS



Rack



Wall-mounted



All-in-One



Stackable

## Photovoltaic System



On-grid Inverter



Off-grid Inverter



Hybrid Inverter



Photovoltaic Module

## Applications



### Liquid Cooling System in Large Power Stations

Cycle Lifetime: >6000 times

Installation: Pre-built container

Safety System: Efficient thermal management +  
active fire protection



### Household Hybrid Application

Solution: Solar Panel+ESS

Assembly System: Pre-wiring and modular design

IP Rating: IP55





### Photovoltaic System Application

Topological Structure: Three-level

Maximum Efficiency: 98.95%

Functions: Active and reactive power regulation + zero voltage ride through



### Industrial On and Off Grid Energy Storage System

Capacity: 200kW / 430kWh

Applications: Demand management/peak shaving/valley filling/dynamic capacity increase/backup power supply

Operating Mode: Spontaneous self-use



### Industrial Off-grid Energy Storage System

Capacity: 100kW / 215kWh

Applications: Independent grid

Operating Mode: Self-generate + back-up



### Industrial On-grid Energy Storage System

Capacity: 300kW / 645kWh

Applications: Peak shaving/valley filling/demand management/dynamic capacity increase

Operating mode: Photovoltaic grid-connected





# BATTLINK

Energy Storage System DC Side

BATTLINK DC-side energy storage systems consist of battery modules, thermal management systems, fire protection systems and convergence cabinets; supporting customers in the overall design.



## Product Characteristics

### Better Costs

- Large module, non-walk-in design, improve system integration
- High integration, convenient and efficient transportation, installation and operation and maintenance

### Flexible and friendly

- Modular design, easy to install and maintain, good compatibility
- Can be expanded as needed

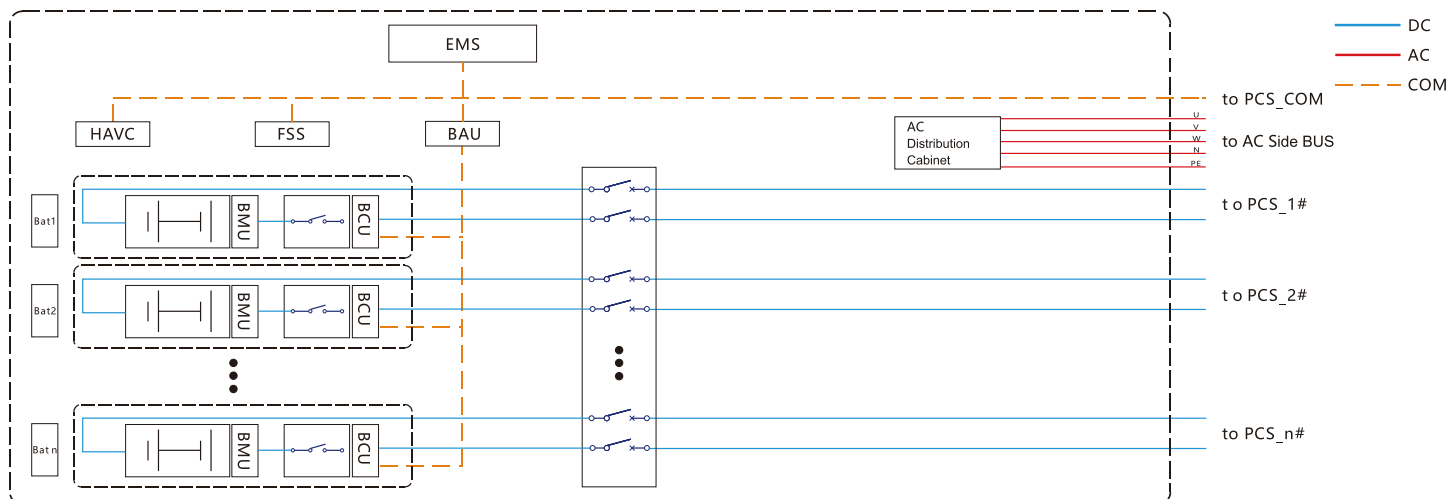
### Smart and efficient

- Dedicated BMS system for energy storage
- Intelligent temperature control for higher operating efficiency

### Safe and Reliable

- Using lithium iron phosphate battery, the cycle life is more than 6000 times
- Integrated intelligent fire protection system, real-time monitoring and early warning, safe and reliable

## Product Topology







Technical Parameter

Model	BATTLINK-2.58MWh	BATTLINK-3.44MWh	BATTLINK-4.3MWh	BATTLINK-5.16MWh	BATTLINK-6MWh
Battery Parameter					
Qty. of Batteries	12PCS	16PCS	20PCS	24PCS	28PCS
Configuration	240S12P	240S16P	240S20P	240S24P	240S28P
System Type	768V3360Ah	768V4480Ah	768V5600Ah	768V6720Ah	768V7840Ah
Energy(kWh)	2580	3440	4300	5160	6021
Nominal Voltage( V )	768				
Voltage Range	696.0-852.0V (Cell:2.9-3.55Vdc)				
Charge and Discharge Rate	≤0.5C				
Depth of Discharge(DOD)	95%				
Cycle Life	6000				
BMS Communication Interface	CAN,R5485,Ethernet				
Cooling Method	Air Conditioner				
Fire Fighting System	Five-in-one detector + fire host + heptafluoropropane/perfluorohexanone fire suppressor				
System Parameter					
Dimension (mm)	6096*2896*2438	7618*2896*2438	12192*2896*2438	12192*2896*2438	13716*2896*2438
Weight(T)	24.5	32.5	41.7	48	54.3
IP Rating	IP55				
Operation Temperature Range (°C)	-30 ~ +50°C				
Operation Humidity	0 ~ 95%(non-condensing)				
Working Altitude	5000m(power rerating when more than 3000 meters )				
Cooling Method	Air conditioner cooling				
System Communication Interface	Modbus RTU, Modbus TCP, IEC104				
Certificate	GB/T 34120,IEC62477,EN61000,EN62116				



## 3.35MW-6.7MWH

### String-connected Liquid Cooling ESS

This system focuses on safety. The battery compartment and the electrical compartment are effectively separated through container design. At the same time, the system adopts a string connection method to improve the safety of the overall system. On the power generation side, it can be used in important fields such as energy time shifting, system frequency regulation, and renewable energy grid integration. On the user side, it can provide demand management and improve power quality, bringing users a more stable and efficient energy usage experience.

## Product Characteristics

### Scientific Management

- Efficient thermal management design and active fire protection system ensure system safety
- High integration, convenient and efficient transportation, installation and operation and maintenance

### High Integration

- Non-walk-in/modular highly integrated design, 1500V system electrical and battery separation design, easy maintenance
- Prefabricated cabin installation solution reduces on-site installation costs and debugging time

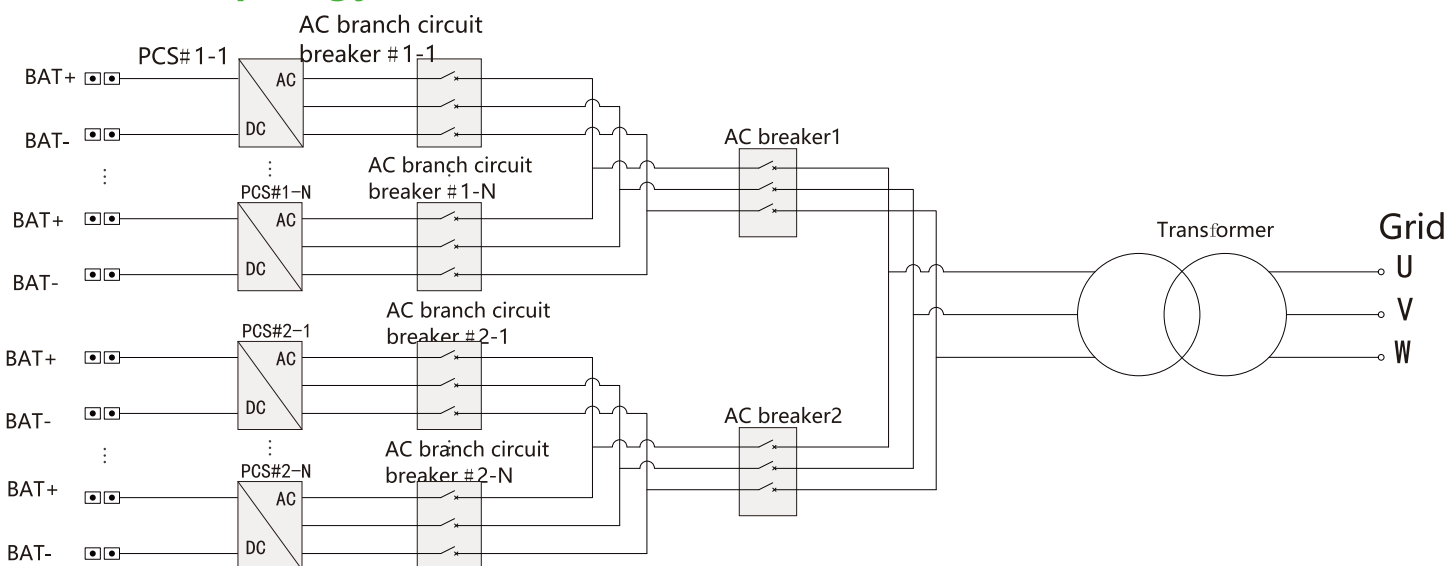
### Intelligent and Efficient

- Dedicated BMS system for energy storage
- Support primary frequency modulation with voltage/reactive power adjustment function

### Safe and Reliable

- Using lithium iron phosphate battery, the cycle life is more than 6000 times
- Integrated intelligent fire protection system, real-time monitoring and early warning, safe and reliable

## Product Topology







## Technical Parameter

### Battery Cluster

Array Type	single row layout
Capacity (Ah)	280
Module Configuration	1P52S
Cluster Configuration	1P416S
Charge and Discharge Rate	0.5C
Energy(kWh)	372.7
Nominal Voltage (V)	1331.2
Operation Voltage Range (V)	1164.8~1518.4
Weight (kg)	3250

### DC Side

Energy( kWh)	3354
Cooling Method	liquid cooling
IP Rating	IP66
Dimensions(W*D*H, mm)	6092*2438*3300
Weight(Kg )	35000
Fire Fighting System	PACK level fire protection + water fire protection + flammable gas detection + explosion relief design

### Distributed Energy Storage Converter

Rated Power (kW)	186
DC Operation Voltage Range (V)	1000-1500
AC Voltage (V)	690
Rated Current (A)	139
Power Factor at Rated Power	>0.99
Maximum Efficiency	99%
Dimensions(W*D*H, mm)	550*250*620
Weight(Kg)	65

### PCS

AC Side Rated Voltage	690V
Configuration	18台*186kW in parallel
Reactive Power Response Time	≤25ms
Maximum Conversion Efficiency	≥0.99
Power Response Speed	< 20ms
Charge-discharge Conversion Time	< 50ms
Dimensions(W*D*H, mm)	6500*2700*3100
Weight(Kg)	65
IP Rating	IP66



## 600kWp-500kW-1.2MWH Photovoltaic energy storage system

BATTLINK Container Energy Storage System products adopt an integrated design concept, capable of efficiently storing and releasing electricity, suitable for industrial, commercial and grid regulation and other application scenarios, and at the same time can be combined with photovoltaic and other clean power generation energy sources to ensure the stability and reliability of energy supply.



### ■ Product Characteristics

#### Flexible Configuration

- Supports multiple sets of parallel use
- Supports simultaneous access to grid/diesel, PV, and batteries

#### Easy Installation

- Easy on-site construction with one-piece transportation
- IP55 protection class, meet the outdoor installation conditions

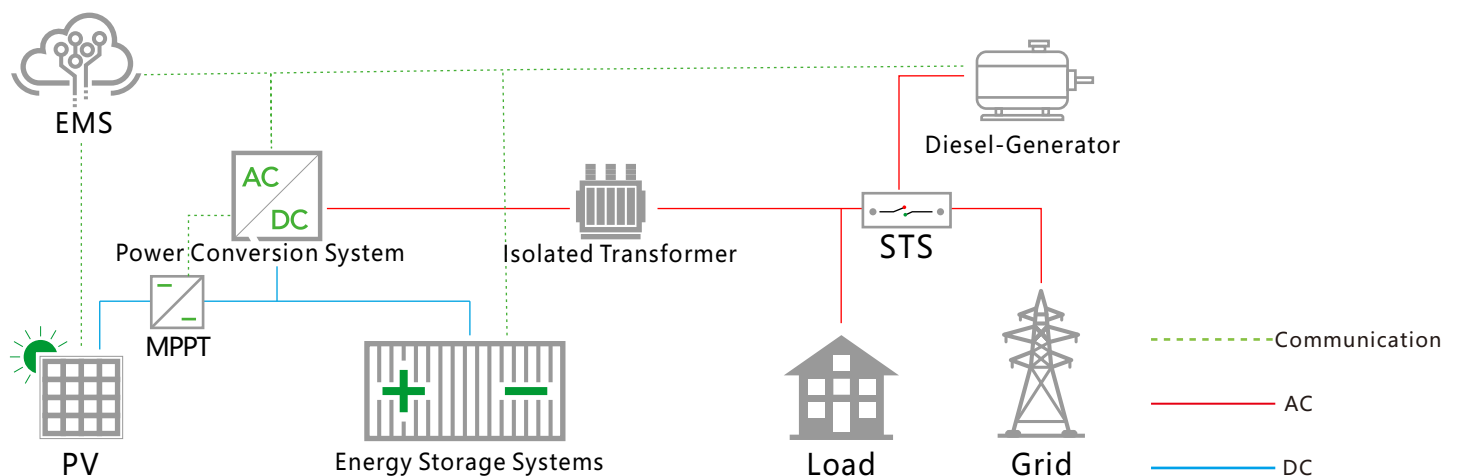
#### Smart and User-Friendly

- Seamless switching between parallel and off-grid states for uninterrupted supply of loads
- Built-in EMS with multiple operating mode options for increased profitability

#### Safe and Reliable

- Redundant design for critical functions
- Efficient thermal management design and active fire protection system for system safety

### ■ Product Topology







■ Technical Index

Product model	BATT-GS-500/1200-T
Battery System Parameters	
Cell Type	LFP, 3.2V314Ah
Battery Module	64V314Ah, 20.09kWh, 134kg
Number of Battery Modules	60PCS
Rated Energy	1205KWh
Rated Voltage	768V
Voltage Range	696.0-852.0V(Cell: 2.9- 3.55Vdc)
Charge and Discharge Rate	≤0.5C
DOD	95%
Lifetime	over 6000 cycles
Cooling Method	Air conditioning with forced air cooling
Fire Protection System	Aerosol/five-in-one detector + fire host + heptafluoropropane / perfluorohexanone fire suppressor
PCS Parameters	
Rated Power	500kVA
Rated Voltage	400Vac
Rated Current	722A
Rated Grid Voltage	400Vac
Rated Frequency	50/60Hz
THDi	< 3%
THDu	<1%linear; <5%nonlinearity
Overload Capacity	110% Long-term operation
IsolationMethod	Transfommer isolation
Maximum Photovoltaic Input Voltage	1000Vdc
Maximum Photovoltaic Power	600/660/720kW
MPPT Operating Voltage Range	250-850Vdc
MPPT Full-load Voltage Range	450-850Vdc
Communication Interface	R5485/Ethernet/CAN
Communication Protocol	ModbusRTU, ModbusTCP
System Parameter	
Communication Interface(EMS)	R5485/Ethernet
Installation Location	Outdoor installation
IP Grade	IP55
Corrosion-proof Grade	C5
Operating Humidity Range	0~95%(noncondensing)
Operating Temperature Range	- 30℃- +55℃
Maximum Working Altitude	5000m(> 3000m derating
Dimensions(L*W*H)	6058*2438*2591mm
Weight	about 19.3T



## 360kWp-250kW-430kWh

### Commercial and Industrial Photovoltaic Energy Storage System

The BATTLINK 10' container energy storage system is an all-in-one system that packages and optimises all equipment other than the battery system to achieve "plug and play" for the user. The pre-configured and optimised design reduces safety risks due to local installation differences and management risks.



## Product Characteristics

### Flexible configuration

- Support multiple parallel to MW level
- Multiple communication meet customer's self-scheduling

### Smart and user-friendly

- 7-inch touchscreen for easy and convenient operation.
- Built-in Energy Management System (EMS) with

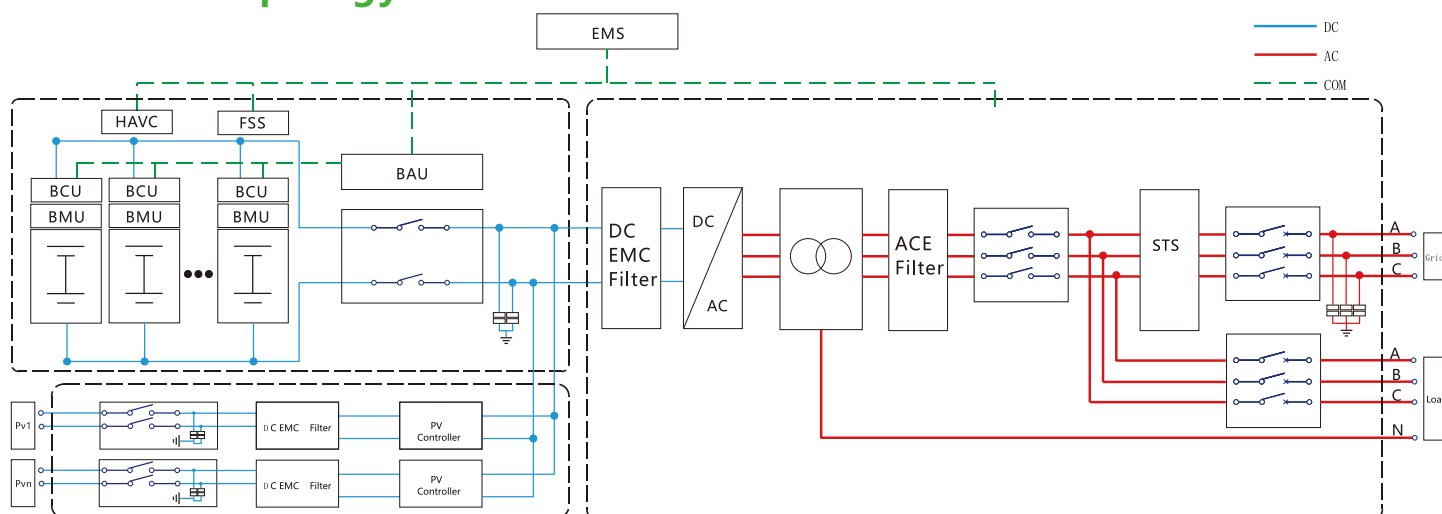
### Smart and Efficient

- Modular design for quick installation
- IP55 protection to meet outdoor installation requirements

### Safe and Reliable

- High-quality cells with a cycle life over 6000 cycles
- Efficient thermal management design and active fire protection system to ensure system safety

## Product Topology





## ■ Technical Index



Product Model	360kWp-250kW-430kWh		100kWp-100kW-430kWh	
Battery System Parameters				
Cell Type	LFP, 3.2V, 280Ah			
Battery Module	64V280Ah, 17.92kWh, 140.5kg			
Number of Battery Modules	24PCS			
Rated Energy	430.08kWh			
Rated Voltage	768V			
Voltage Range	696.0-852.0V (Cell:2.9-3.55Vdc)			
Charge and Discharge Rate	0.5C		0.25C	
DOD	95%			
Lifetime	6000 Cycle			
Cooling	Air Conditioning With Forced Air Cooling			
Fire Protection System	Aerosols/Perfluorohexanone			
AC Output Parameters				
Rated Power	250kVA		100kVA	
Rated Voltage	400Vac		400Vac	
Rated Current	361A		145A	
Frequency	50/60Hz		50/60Hz	
THD	<3%			
THDu	<1% linear;<5% non-linear			
Overload Capacity	110% Long Term			
Isolation Method	Transfommer Isolation			
PV Input Parameters				
Maximum Photovoltaic Input Voltage	1000Vdc		720Vdc	
Maximum Photovoltaic Power	360kW		100kW	
MPPT Operating Voltage Range	250-850Vdc		200-720Vdc	
MPPT Full-Load Voltage Rang	450-850Vdd		210-850Vdd	
Communication Interface	R5485/Ethernet/CAN		R5485/CAN	
Communication Protocol	ModbusRTU,ModbusTCP			
System Parameters				
Communication Interface	R5485/Ethernet			
Installation Location	Outdoor			
IP Class	IP55			
Anti-corrosion Grade	C5			
Operating Humidity Range	0~95%			
Operating Temperature Range	-30℃ ~ +55℃			
Maximum Altitude	4000m (>3000m) Derating			
Dimensions(L*W*H)	2991*2438*2591mm			
Weight	About 8.5T		About 8T	



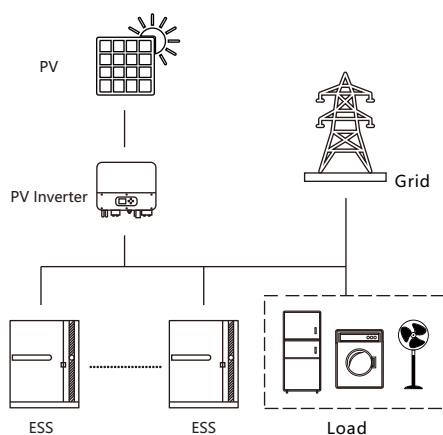
# Power your life, Your way



## BATTLINK 241 Smart commercial & industrial energy storage systems

The BATTLINK241 commercial & industrial energy storage systems adopts the All in one design concept. The cabinet is integrated with battery management system (BMS), energy management system (EMS), modular power conversion system (PCS), and fire protection system. The system's capacity is up to 241 kWh and the power is up to 100 kW. The modular design allows for flexible expansion, adapting to various scenarios such as power expansion, backup power supply, and black start (The ability to restore power without relying on the help of other networks after the power system is out of service due to a fault.).

The BATTLINK 241 intelligent energy storage series is directly connected to the low-voltage side, and can realize multi-connection cabinets and flexible expansion. It can be used in a wide range of industrial and commercial application scenarios.



0.02

On&off grid switch time 0.02S,  
Key load uninterrupted power supply

5

5-in-1 fire detection, comprehensive monitoring

24

Max. 24x in parallel

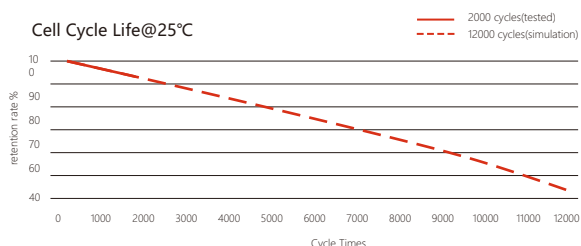
93

Max. round trip efficiency 93%

160

Max. continuous discharge current 160A

Cell Cycle Life@25°C



Adopt mature, safe, economical, green, long-life, high-reliability iron phosphate batteries



Integrate self-developed BMS, EMS, real-time monitoring and remote management



The modular interface can connect multiple machines in parallel, which is easy to expand and maintain



The key components adopt international famous brands with reliable quality

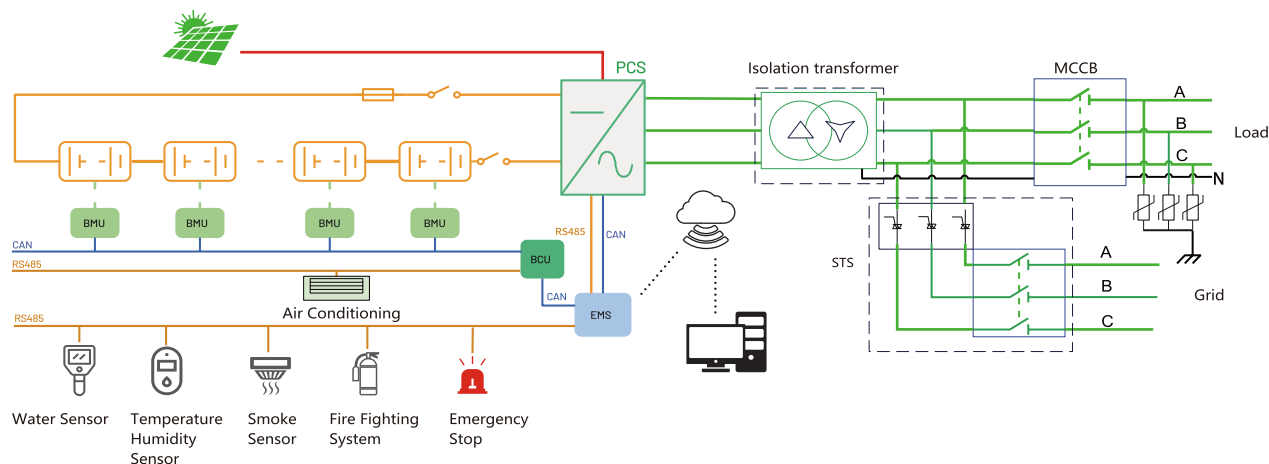


Adopt a full range of battery protection strategies and fault detection and isolation measures to ensure the safety of the energy storage system



Module temperature fluctuates smoothly, prolonging battery life





Product Model	BATT-CI-100/241
Rated Battery Capacity(kWh)	241
Rated Voltage (V)	768
Voltage Range (Vdc)	696-852
Charge and Discharge Rate (P)	≤0.5
Max. Round Trip Efficiency	93%
DOD	95%
Cooling Strategy	Industrial Air Conditioning
Cycle Lifetime at EOL 70%	>6000cycles
Fire Fighting System	Perfluorohexanone/Aerosol
Rated Power (kW)	100
Rated AC Voltage (Vac)	380/400
AC Voltage Range	-15%~+10%
Rated Grid Frequency(Hz)	50/60
Size[Wx D x H,mm]	1520*2157*1270
Weight(T)	2.75
Enclosure Protection Rating	IP55
Operating Temperature Range (°C)	-20- +55(>45 drop)
Operating Humidity Range	0-95%
Maximum Working Altitude(m)	≤4000(>2000 drop)
Communication Interface	RS485,Ethernet
Protocol	Modbus RTU, Modbus TCP,IEC104
Battery Mudule	
Battery Type	LFP, 3.2V314Ah
Battery Module	64V314Ah, 20.09kWh, 134kg
Battery Pack Configuration Rated	240S1P
Energy(kWh)	241.15
Standards Compliant	IEC62619 IEC61000 IEC62477 VDE4105 G98 G99 EN50549-1 BOS-P-01 C10/11 UN38.3



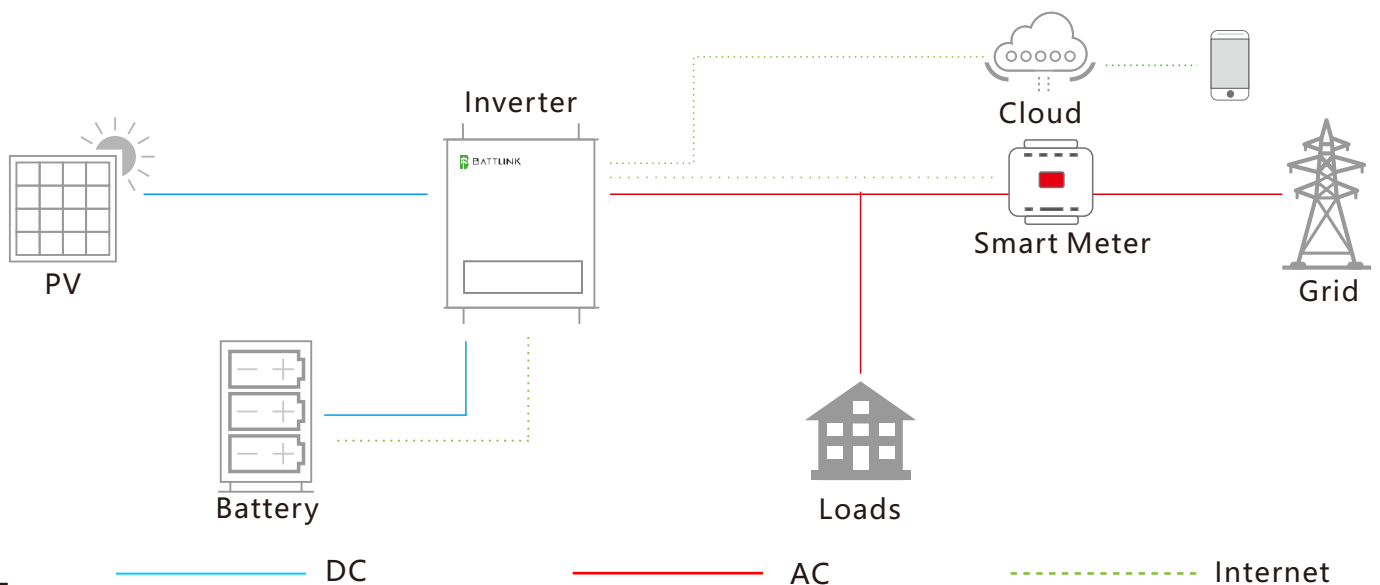
# Residential Storage System

## Application:

- ◆ Storing the surplus solar power into the battery during the day and using it at night, which maximizes the solar energy self-consumption rate.
- ◆ Charging the battery at off-peak rates and discharging to the loads at peak hours to reduce the electricity bill.
- ◆ Guarantee your 24/7 uninterruptable energy, providing backup power when a blackout occurs.



## Diagram of Residential Energy Storage System





# Off-Grid Storage System

## Application:

- ◆ For remote mountainous areas, areas without electricity, or areas with unstable power supply.
- ◆ Provide photovoltaic power generation and energy storage solutions to replace the original oil engine power generation program.
- ◆ Freedom from grid dependence and independence of energy supply.



5kW Single Phase Off-Grid Inverter



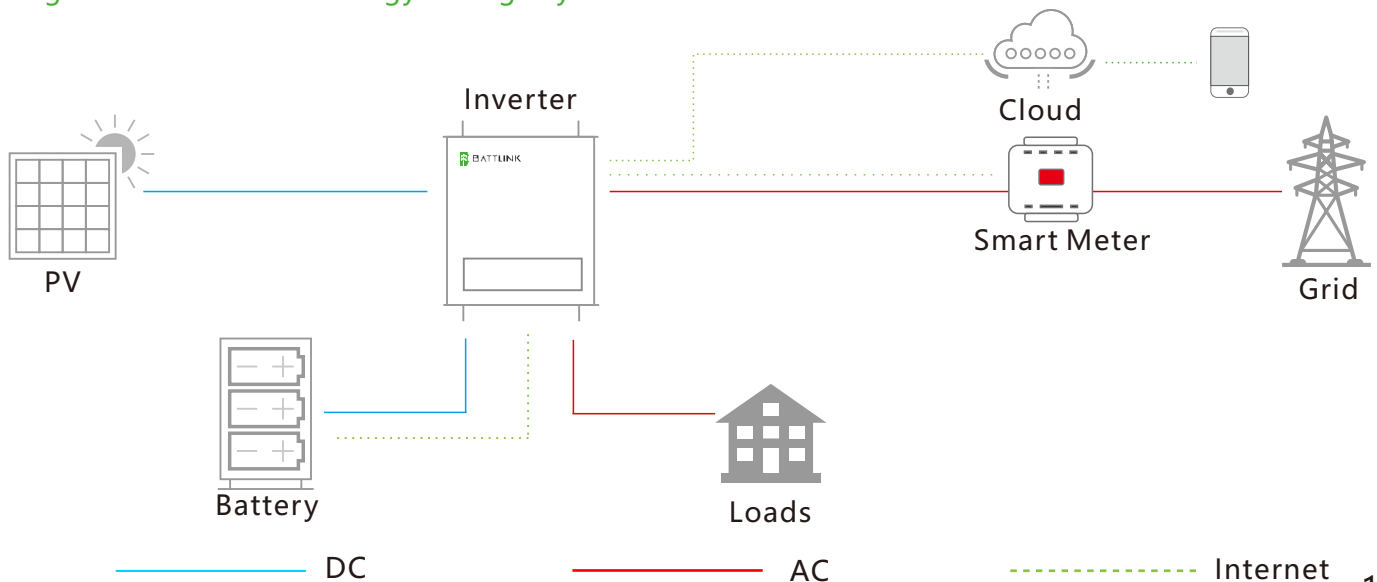
8kW Single Phase Off-Grid Inverter



10kW Single Phase Off-Grid Inverter



## Diagram of Residential Energy Storage System





# Low Voltage

## Stackable All in one ESS

Low Voltage Stackable All in one ESS, It simple appearance design, beautiful and generous. Adopting high performance lithium iron phosphate (LFP) battery, superior performance, safe and reliable, can be charged and discharged 6000 times cycle. Integrated design, battery module can be flexibly combined between 1-4 modules. Large charging and discharging current, suitable for solar energy storage system. With intelligent BMS, real-time monitoring, CAN2.0/RS485 communication interface, and supporting various brands of inverters, it is the best choice for home energy storage scenarios.



## Product Characteristics

### Sturdy and Durable

- The power supply casing is made from prefabricated thickened steel plates to ensure the product's long-lasting durability.

### Easy Installation

- The power output port uses a quick-release connector for easy user operation.

### Safe and Reliable

- Built-in high-quality battery intelligent management system ensures stability and reliability of power supply.

### Flexible Capacity

- A single cluster can be expanded up to 20.48 kWh as needed, with a maximum expansion capacity of up to 80 kWh.

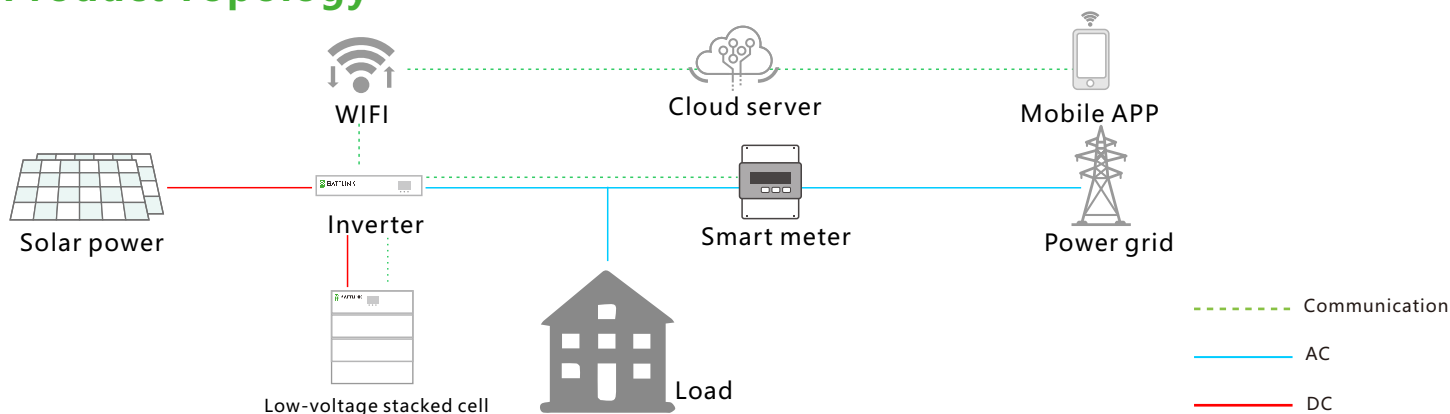
### Strong Compatibility

- The system is configured with Can bus/RS485 communication interfaces, compatible with mainstream inverter brands on the market.

### Data Monitoring





- Real-time tracking and viewing of data via the App, with fully intelligent management solution configuration.

## Product Topology





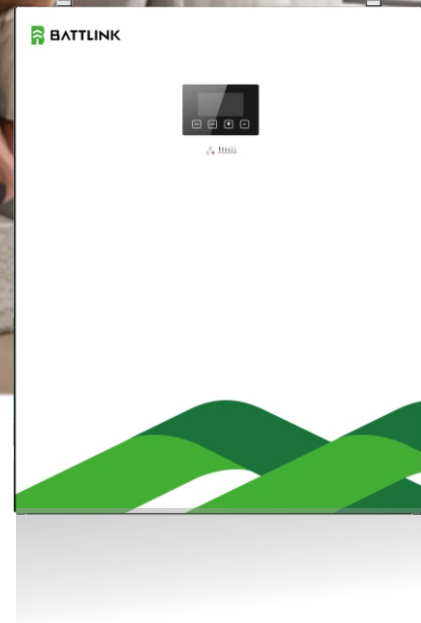
Technical Index

Product Model	BATT-LS-5-E		BATT-LS-10-E		BATT-LS-15-E		BATT-LS-20-E	
Inverter Parameters								
Max. Input Power						5500W		
Max. Input Voltage						450V		
Rated Power						5000W		
MPPT Voltage Aange						120~430V		
Starting Voltage						150V		
Nominal Input Voltage						300V		
Number of MPPTs						1		
PV Controlled by MPPT						1		
Rated Current						21.7A		
Rated Voltage						220/230/240V		
Rated Frequency						50Hz/60Hz		
Harmonic Distortion						< 3%		
Max.conversion Efficiency						93.60%		
MPPT Efficiency						99.90%		
Battery Parameters								
								
Cell Technology	LFP (LiFePO4)							
The Number of Battery	1		2		3		4	
Battery Nominal Energy	5.12kWh		10.24kWh		15.36kWh		20.48kWh	
Rated Capacity	100Ah		200Ah		300Ah		400Ah	
Rated Voltage	51.2V							
Operating Voltage Range	44.8-58.4V							
Rated Current	40A		40A		80A		80A	
Max. Current	100A		100A		200A		200A	
General Specification								
Dimension (W*D*H)	695x505x321mm (27.4x19.9x12.6 inch)		695x505x513mm (27.4x19.9x20.2 inch)		695x505x704.5mm (27.4x19.9x27.7 inch)		695x505x895mm (27.4x19.9x35.2 inch)	
Weight	68kg(149.9lb)		127kg(279.9lb)		186kg(410.1lb)		245kg(540.1lb)	
Protection Rating	IP20							
Cooling	Natural cooling							
Operating Temperature	Charging: 0°C~ + 45°C					Discharging: -20°C~ + 60°C		
Communication	CAN2.0/RS485/RS232							
Standard Compliance								
Transportation	UN38.3							



## Low Voltage Wall Mounted Battery

Low Voltage Wall Mounted Battery utilizes high-performance lithium iron phosphate batteries, ensuring safety, stability, and excellent performance. Whether used as a backup power source during blackouts or as an energy storage device for solar power systems, it provides continuous and stable power support.



### Product Characteristics

#### 10X Capacity

- Can support up to 10 machines combined to meet your energy needs.

#### Convenient and Fast

- Supports wall or floor stand mounting for easy placement.

#### Stable and Reliable

- Built-in high-quality battery intelligent management system to ensure power stability and reliability.

#### Safe and Durable

- All-around protection, no need for personnel supervision, ten-year life span design.

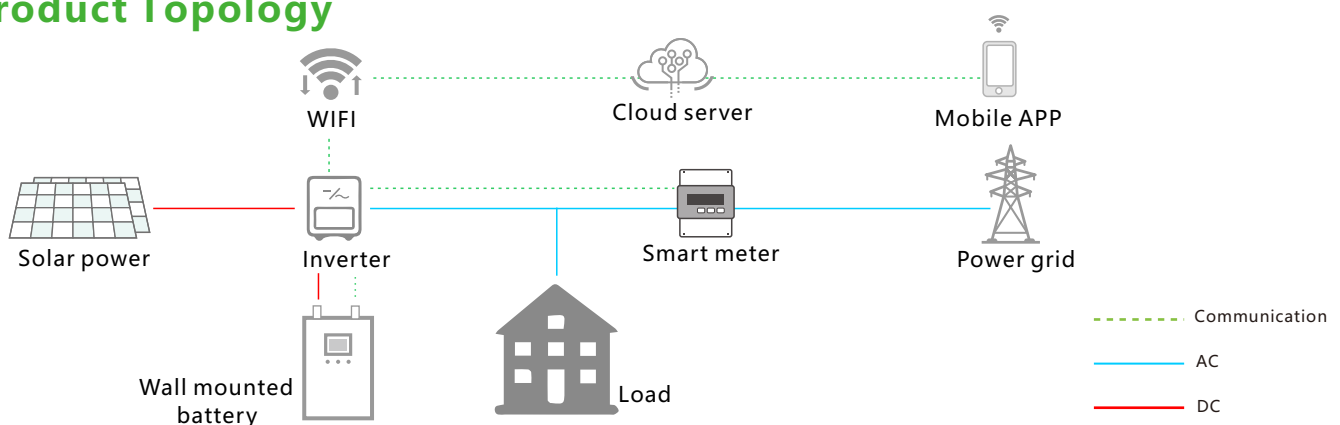
#### Flexible Compatibility

- Intelligent BMS is compatible with solar systems and integrates more than 20 inverter communication protocols.

#### Real-time Monitoring



- APP can view data in real time, intelligent solution configuration.

### Product Topology





■ Technical Index

Product Model	BATT-LS-5-C	BATT-LS-10-C
System Parameters		
		
Cell Technology	LFP (LiFePO4)	
Battery Nominal Energy	5.12kWh	10.24kWh
Rated Capacity	100Ah	200Ah
Rated Power	1024W	2048W
Rated Voltage	51.2V	
Operating Voltage Range	44.8-58.4V	
Rated Current	20A	40A
General Specification		
Dimension (W*D*H)	640X 430 X 185±3 mm (25 X17 X 7 inch)	850 X 625 X185±3mm (33 X25 X7 inch)
Weight	55kg (121lb)	100kg (220lb)
Protection Rating	IP20	
Cooling	Natural cooling	
Operating Temperature	Charging: 0°C~+45°C ; Discharging: -20°C~+60°C	
Relative Humidity	10%~90%RH	
Installation Method	Wall-mounting	
Max. Operating Altitude	4000m	
Communication	Canbus/RS485	
Standard Compliance		
Transportation	UN38.3	



## Low Voltage Rack Mounted Battery (3U)

Low Voltage Rack Mounted Battery (3U) features high-quality Lithium Iron Phosphate (LFP) batteries, offering excellent performance, safety, and durability. It has a modular battery design supporting up to 31 units in parallel, allowing for a maximum expansion of 155 kWh battery capacity. The 3U rack-mount design is compatible with mainstream cabinets, making installation and maintenance convenient. It includes CAN/RS485 communication interfaces and supports various mainstream inverter brands.



## Product Characteristics

### Safe and Reliable

- Factory original cells (LiFePO4) for high stability and long lifespan.

### Complete Compatibility

- Equipped with CAN and RS485 interfaces, fully compatible with mainstream inverter brands.

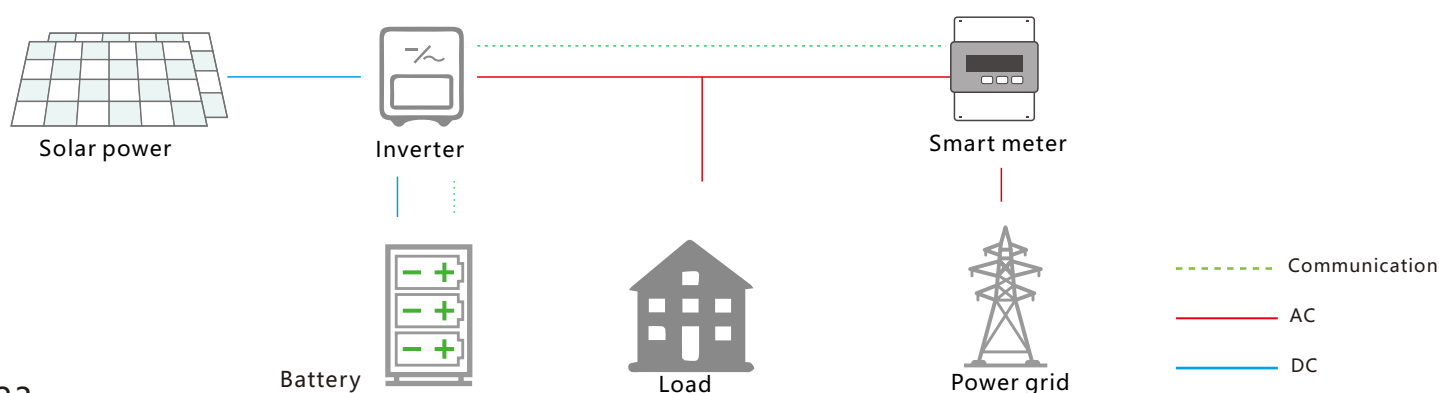
### Unmatched Power

- Connect up to 31 units in parallel for even more capacity and power, or start small and expand as needed.

### Advanced BMS

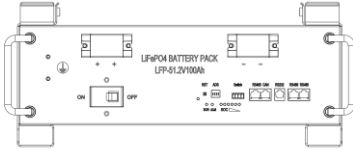
- Automatic protection against extreme temperatures, overvoltage, overcurrent, short circuits, and surge currents.

## Product Topology





■ Technical Index

Product Model		BATT-LS-5-A
System parameter		
		
Cell Technology		LFP (LiFePO4)
Battery Nominal Energy		5.12kWh
Rated Capacity		100Ah
Rating		2560W
Rated Voltage		51.2V
Operating Voltage Range		44.8~58.4V
Rated charge/discharge current		50A
Maximum charge/discharge current		100A
Peak discharge current (30s)		200A
Number of cycles		≥4000 (at 80 % DoD, 0.5C,25°C)
General parameters		
Dimension (W*D*H)		550x440x135mm ( 21.6x17.3x5.3 inch)
Weight		44kg(97 lb)
Protection Rating		IP20
Cooling		Natural cooling
Operating Temperature		Charging: 0°C~ + 55°C; Discharging: - 20°C~ + 55°C
Relative humidity		10%~90%RH
Installation		Rackmount/Cabinet
Communication		CAN/RS485
Demonstrate		SOC Status Indicator/LED Indicator
Scalability		Max. 31 in parallel (155kWh)
Standards & Certifications		
Transportation		UN38.3



## High Voltage Stackable Battery

High Voltage Stackable Residential ESS makes your green, low-carbon life possible. Whether at night, during rainy weather, or in the event of a sudden power outage, the energy storage system continuously converts energy, providing your home with an uninterrupted supply of "green" electricity. Whether serving as an emergency power source during outages or as a storage device for your solar power system, it consistently provides stable and reliable power support.



### Product Characteristics

#### Modular Design

- Uses a stackable design for easy installation and maintenance.

#### Safe and Reliable

- Built-in high-quality lithium iron phosphate cells with high stability and long cycle life.

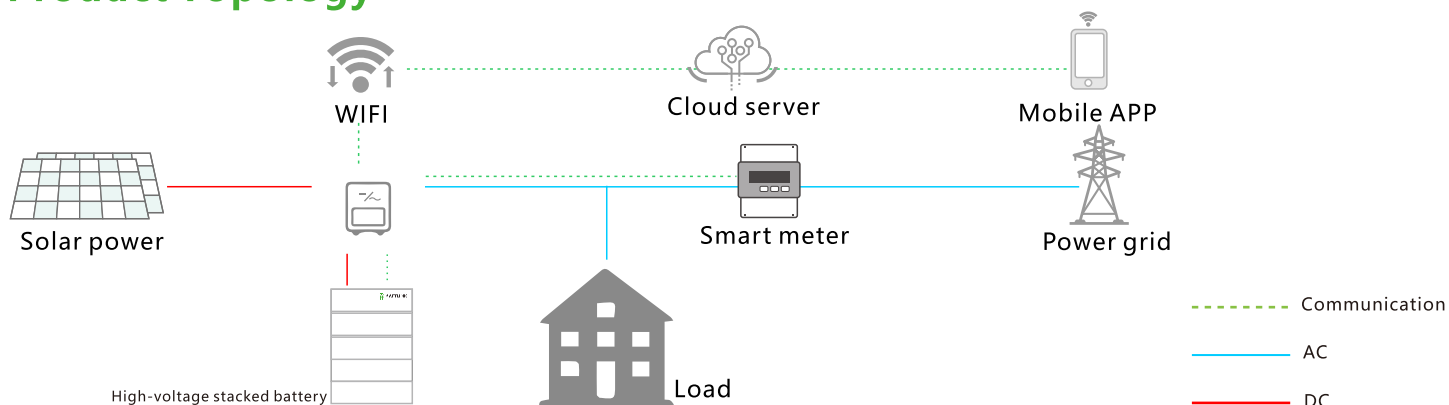
#### Flexible Capacity Expansion

- Can be flexibly expanded up to 20 kWh as needed.

#### Real-time Data Monitoring




- Real-time data tracking and viewing via the app with fully intelligent management solution configuration.

### Product Topology





■ Technical Index

Product Model	BATT-HT-10-D	BATT-HT-15-D	BATT-HT-20-D
System Parameters			
			
Cell Technology	LFP (LiFePO4)		
Battery Modules	2	3	4
Battery Nominal Energy	10.24kWh	15.36kWh	20.48kWh
Rated Capacity	50Ah		
Rated power	5kW	7.5kW	10kW
Rated Voltage	204.8V	307.2V	409.6V
Operating Voltage Range	179.2-233.6V	268.8-350.4V	358.4-467.2V
Rated Current	25A	25A	25A
General Specification			
Dimension (W*D*H)	590 X 350 X 815.4 mm (23.2 X 13.8 X 32.1 inch)	590 X 350 X 1102.9mm (23.2 X 13.8 X 43.4 inch)	590 X 350 X 1390.4mm (23.2 X 13.8 X 54.8 inch)
Weight	162.5kg (358lb)	227.5kg (502lb)	292.5kg (645lb)
Protection Rating	IP55		
Cooling	Natural cooling		
Operating Temperature	Charging: 0°C~ + 55°C ; Discharging: -20°C~ + 55°C		
Storage Temperature	10%~90%RH		
Installation Method	Floor-standing		
Max. Operating Altitude	4000m		
Communication	Canbus/RS485		
Standard Compliance			
	CE、 UN38.3		



## High Voltage Rack Mounted Battery

High Voltage Rack Mounted Battery home storage adopts lithium iron phosphate batteries to ensure the safety and reliability of the battery;adopts rack mounting ,which is convenient for installation and maintenance ;the intelligent air-cooling system effectively reduces the temperatureand enhances the system efficiency ;the high cycling performance ensures the battery has a long lifespan ;and it meets family'spowerneeds.



### ■ Product Characteristics

#### Perfectly Compatible

- Compatible with both single-phase and three-phase household inverters.
- Supports AC coupling and DC coupling.

#### Modular Design

- Flexible combination of scalable capacity
- Easy maintenance and troubleshooting.

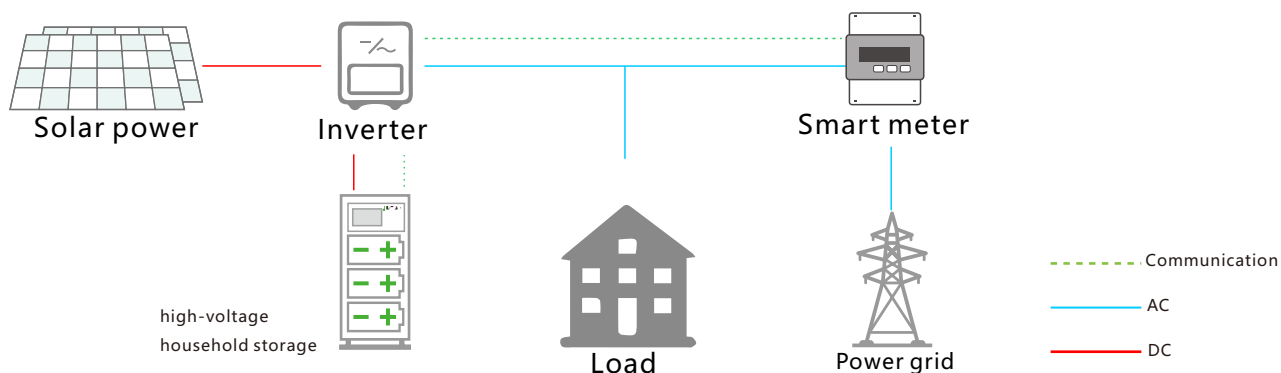
#### Safe and Reliable

- Lithium iron phosphate battery High cycle stability, longlife.

#### Rack Mounting



- Easy to install,no on-siteassembly required
- Quick and easy to use.

### ■ Product Topology





■ Technical Index

Product Model	BATT-HT-10-A	BATT-HT-15-A	BATT-HT-20-A	BATT-HT-25-A
System Parameters				
				
Cell technology	LFP (LiFePO4)			
Battery modules	2	3	4	5
Battery nominal energy	10.24kWh	15.36kWh	20.48kWh	25.6kWh
Rated capacity	50Ah			
Rated voltage	204.8V	307.2V	409.6V	512V
Operating voltage range	179.2~233.6V	268.8~350V	358.4~467.2V	448~584V
Rated current	0.5C			
General Specification				
Dimension (W*D*H)	507×690×669mm (19.9x27.2x26.4 inch)	507x690x869 mm (19.9x27.2x34.2 inch)	507x690x1069 mm (19.9x27.2x42.1 inch)	507x690x1269 mm (19.9x27.2x49.9 inch)
Weight	196kg (432lb)	254kg (560lb)	312kg (687.8lb)	370kg (815.7lb)
Protection rating	IP21			
Cooling	Natural cooling			
Operating temperature	Charging: 0°C~ +55°C ; Discharging: - 20°C~ +55°C			
Storage temperature	0°C~ +45°C			
Installation method	Floor-standing			
Max. operating altitude	4000m			



## Small-scale Lithium Batteries



Lead Acid Battery  
Replacement



Solar Street Light



Two and Three Wheel



Parking Air Conditioner  
Power Supply



AGV Batteries



Golf Cart/Forklift  
Transaction Batteries



Cleaning Machine Batteries

## Low Speed Vehicle Lithium Batteries

## Solar Street Light Lithium Batteries



### Safe and reliable

Overcharge, overdischarge, overcurrent, short circuit protection

### Cold and high temperature resistant

-20 ~ 55°C

### Long cycle life

Number of cycles > 2000 times, service life > 10 years

### High energy density

Small size and light weight

### Flexible product customization

Customized size and electrical parameters to meet different usage scenarios and keep competitive

### Independent R&D and production of cells







HX-SOL-12.8/24



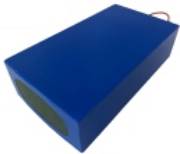
HX-SOL-12.8/36



HX-SOL-12.8/48



HX-SOL-12.8/60



HX-SOL-25.6/24

Battery Type	12.8V24Ah	12.8V36Ah	12.8V48Ah	12.8V60Ah	25.6V24Ah
Cell Type	磷酸铁锂FePO4				
Configuration	4S4P	4S6P	4S8P	4S10P	8S4P
Rated Voltage (V)	12.8	12.8	12.8	12.8	25.6
Rated Capacity(Ah)	24	36	48	60	24
Energy (Wh)	307.2	460.8	614.4	768	614.4
Operating Temperature( °C)	-20-55				
Operating Current(A)	10	10	15	15	10
IP Rating	IP66				
Dimensions (L*W*H, mm)	264*156*35	300*211*35	291*280.5*35	340*150*90	300.5*280*35
Weight( kg)	2.7	4	5.1	6.5	5.2
Enclosure Material	PVC				
Cycle Life	2000				



# LFP (LiFePO4)

12.8V/25.6V



0  
Maintenance

10  
Years battery life

-4~140°F  
Working environment

<3%  
Self discharge rate

4,000+  
Cycle life

1C  
1C continuous power  
2C peak power

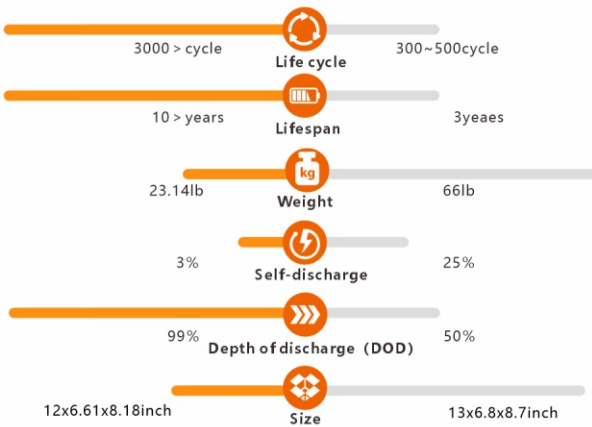
IP67  
High level waterproof and  
dust tight protection

3  
Years warranty

## Smaller And Lighter



12.8V100Ah  
Lithium Battery



12.8V100Ah  
Lead-acid Battery

Model	HX-LTL-12.8/6	HX-LTL-12.8/12	HX-LTL-12.8/18	HX-LTL-12.8/42
Parameter	12.8V6Ah	12.8V12Ah	12.8V18Ah	12.8V42Ah
Cell Technology				
Cell Type	Cylindrical Cell			
Configuration	4S1P	4S2P	4S3P	4S7P
Rated Voltage				
Rated Capacity	6Ah	12Ah	18Ah	42Ah
Energy	76.8Wh	153.6Wh	230.4Wh	537.6Wh
Max. Continuous Operating Current	6A	12A	18A	42A
Max. Peak Current (30s)	12A	40A	36A	84A
Operating Temperature				
IP Rating				
Dimension (W*D*H)	152x65x94mm (5.9x2.5x3.7 inch)	151x66x95mm (5.9x2.6x3.7 inch)	181x78x164mm (7.1x3.1x6.5 inch)	196x167x170mm (7.7x6.6x6.7 inch)
Weight	0.8kg(1.7lb)	1.8kg(3.9lb)	2.3kg(5.1lb)	5kg(11lb)
Casing				
Cycle Life	2000			
Certificates				





Camping



Equipments



Solar System



Recreational Vehicles



Marine



Material Handling



Lawn Mower



Electrical wheelchair

Model	HX-LTL-25.6/50	HX-LTL-25.6/100	HX-LTL-25.6/150	HX-LTL-25.6/200	HX-LTL-25.6/300
Parameter	25.6V50Ah	25.6V100Ah	25.6V150Ah	25.6V200Ah	25.6V300Ah
Cell Technology	LFP (LiFePO4)				
Cell Type	Prismatic Cell				
Configuration	8S1P	8S1P	8S1P	8S1P	8S1P
Rated Voltage	25.6V				
Rated Capacity	50Ah	100Ah	150Ah	200Ah	300Ah
Energy	1280Wh	2560Wh	3840Wh	5120Wh	7680Wh
Max. Continuous Operating Current	50A	100A	150A	200A	200A
Max. Peak Current (30s)	100A	200A	300A	400A	400A
Operating Temperature	-20 ~ 60°C (-4 ~ 140°F)				
IP Rating	IP67				
Dimension (W*D*H)	329x172x214mm (12.9x6.8x8.4 inch)	532x207x215mm (20.9x8.1x8.5 inch)	520x269x220mm (20.4x10.5x8.6 inch)	520x269x220mm (20.4x10.5x8.6 inch)	520x269x220mm (20.4x10.5x8.6 inch)
Weight	10.8kg(23.8lb)	19.5kg(43lb)	27.6kg(60.8lb)	35.5kg(78.3lb)	49.2kg(108.5lb)
Casing	ABS				
Cycle Life	4000				
Certificates	CE / UN38.3				

HX-LTL-12.8/54	HX-LTL-12.8/50	HX-LTL-12.8/100	HX-LTL-12.8/150	HX-LTL-12.8/200	HX-LTL-12.8/300
12.8V54Ah	12.8V50Ah	12.8V100Ah	12.8V150Ah	12.8V200Ah	12.8V300Ah
LFP (LiFePO4)					
Prismatic Cell					
4S9P	4S1P	4S1P	4S1P	4S2P	4S1P
12.8V					
54Ah	50Ah	100Ah	150Ah	200Ah	300Ah
691.2Wh	640Wh	1280Wh	1920Wh	2560Wh	3840Wh
54A	50A	100A	150A	200A	200A
100A	100A	200A	300A	400A	400A
-20 ~ 60°C (-4 ~ 140°F)					
IP67					
307x168x208mm (12x6.6x8.2 inch)	229x138x208mm (9x5.4x8.2 inch)	307x168x208mm (12x6.6x8.2 inch)	483x170x240mm (19x6.7x9.5 inch)	532x207x215mm (20.9x8.1x8.5 inch)	522x240x218mm (20.6x9.4x8.6 inch)
7.3kg(16.1lb)	6.6kg(14.6lb)	10.5kg(23.2lb)	15kg(33.1lb)	19.6kg(43.2lb)	26.6kg(57.8lb)
ABS					
4000					
CE / UN38.3					





## AGV(Automatic Guided Vehicle) LiFePO4 Battery

- 1-2 hours Fast and Efficient Charging
- Absolutely Safe Lithium Technology and UL, CE, CB, CCC, ROHS Certified
- 3500 Cycles Longer Service Life
- OEM/ODM Customized Service







HX-AGV-48/35



HX-AGV-48/42  
(Non-spot welding)



HX-AGV-48/42  
(Spot welding)



HX-AGV-51.2/21



HX-AGV-51.2/48

Battery Type	48V35Ah	48V42Ah	48V42Ah	51.2V21Ah	51.2V48Ah
Cell Type	LiFePO4				
Configuration	15S6P	15S7P	15S7P	16S1P	16S8P
Rated Voltage(V)	48	48	48	51.2	51.2
Rated Capacity(Ah)	35	42	42	21	48
Energy(Wh)	1.68	2.01	2.01	1.07	2.45
Operating Temperature( °C)	-20-55				
Operating Current(A)	60				
Communication Method	RS485, CAN, UART				
IP Rating	IP54				
Dimensions (L*W*H, mm)	350*280*150	440*320*164	535*300*100	475*85*155	187*152*591
Weight(kg)	20.5	25.5	22	10	24
Enclosure Material	SPCC				
Cycle Life	2000				





## Two and Three Wheeler LiFePO4 Battery

- 80-100 km Long Miles Range
- Built-in BMS and Real Time Monitoring
- OEM/ODM Customized Service
- 1/3 Lighter than Lead Acid Battery and Small Size







HX-LSV-48/18



HX-LSV-48/24



HX-LSV-51.2/30



HX-LSV-64/36



HX-LSV-64/42

Battery Type	48V18Ah	48V24Ah	51.2V30Ah	64V36Ah	64V42Ah
Cell Type	LiFePO4				
Configuration	15S3P	15S4P	16S5P	20S6P	20S7P
Rated Voltage (V)	48	48	51.2	64	64
Rated Capacity (Ah)	18	24	30	36	42
Energy (Wh)	864	1150	1530	2300	2680
Operating Temperature (°C)	-20-55				
Operating Current( A)	20	30	30	40	60
Communication Method	RS485, CAN, UART(optional )				
Positioning Method	GPS(optional)				
IP Rating	IP67				
Dimensions (L*W*H, mm)	180*155*203	181.5*155*264.5	193*153*315	220*155*407	375*275*190
Weight (kg)	7.5	10	15	22.5	31.4
Enclosure Material	SPCC or ABS case	SPCC or ABS case	SPCC	SPCC	SPCC
Cycle Life	2000				





## Truck Parking Air Conditioner LiFePO4 Battery

- Grade A LiFePO4 Cells and Built-in BMS Safety Technology
- 5-10 Years Longer Lifespan
- Built-in BMS and Bluetooth Monitoring
- Self-heating Function Optional





CE RoHS CB IP67 UL UN38.3



HX-PPS-25.6/150



HX-PPS-25.6/240

Battery Type	25.6V150Ah	25.6V240Ah
Cell Type	LiFePO4	LiFePO4
Configuration	8S26P	8S2P
Rated Voltage(V)	25.6	25.6
Rated Capacity (Ah)	150	240
Energy(KWh)	3.84	6.14
Operating Temperature(°C)	-30-55	-30-55
Operating Current(A)	150	150
Communication Method	RS485/CAN/Bluetooth	RS485/CAN/Bluetooth
Heating	Optional	Optional
IP Rating	IP67	IP67
Dimensions(L*W*H, mm)	405*600*189	523*496*300
Weight(kg)	40	68
Enclosure Material	SPCC	SPCC
Cycle Life	2000	2000





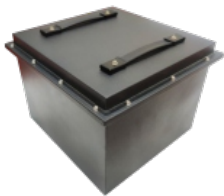
## Cleaning Machine LiFePO4 Battery

- Super Endurance and 5 Years Lifespan
- IP67 Protection Grade
- Maintenance Free and Easy Installation
- Built-in BMS Protection From Overcharge and Overdischarge





CE RoHS CB IP65 UL UN38.3



HX-SWP-25.6/100



HX-SWP-25.6/200



HX-GOLF-51.2/100



HX-GOLF-76.8/100

Battery Type	25.6V100Ah	25.6V200Ah	51.2V100Ah	76.8V100Ah
Cell Type	LiFePO4			
Configuration	8S18P	8S34P	16S18P	24S18P
Rated Voltage (V)	25.6	25.6	51.2	76.8
Rated Capacity(Ah)	100	200	100	100
Energy(kWh)	2.56	5.12	5.12	7.68
Operating Temperature( °C )	-20-55	-20-55	-20-55	-20-55
Operating Current(A)	50	100	100	100
Communication Method	RS485, CAN, UART(optional )			
Heating	optional			
IP Rating	IP65			
Dimensions(L*W*H, mm)	324.5*344*220	520*453*219	500*343*255	254.5*333*805
Weight(kg)	28	56	58	75
Enclosure Material	SPCC			
Cycle Life	2000			



# Cases



Germany

Capacity: 500kW / 1.29MWh

Operating Mode: Peak and valley arbitrage

Functions: Demand management/ peak shaving and valley filling



The Republic of Guinea

User: China Railway 18th Bureau

Capacity: 10MW / 23MWH

Operating Mode: off grid photovoltaic Storage

Functions: Demand Management/ Independent Power Supply



Hunan, China

User: State Grid Corporation of China

Capacity: 6kW / 20kWh

Operating Mode: dynamic compensation

Functions: Low voltage management



Haining, Zhejiang

Capacity: 300kW/645kWh

Operating Mode: Peak and valley arbitrage

Functions: Peak shaving and valley filling







Germany

0.5MW/1MWh  
User Side ESS



Brazil

250kW/500KWh  
Grid Side Frequency  
Regulation ESS



Austria

1MW/2MWh  
User Side ESS





## Cases



### Munich

5kW/20kWh

Three-phase High Voltage



### USA

5kW/20kWh

Three-phase High Voltage  
Residential ESS



### Poland

10kWh

Single-phase Low Voltage  
Cabinet Residential ESS





  
Malaysia

5kWh  
Single-phase Low Voltage  
Wall-mounted Residential ESS



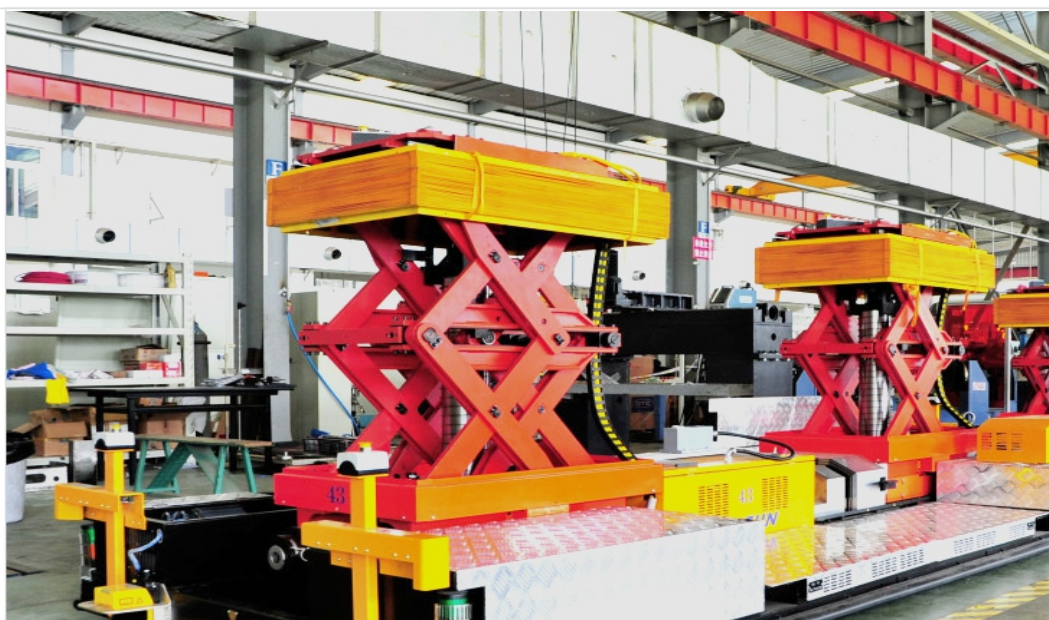
  
JIANGSU

12.8V60Ah  
Solar Street Light



  
GUI ZHOU

48v42Ah  
AGV Lithium Batteries





# Global Distribution

Huaxing Energy has established the network of production, sales and service to the world

Domestic Companies/Factories:

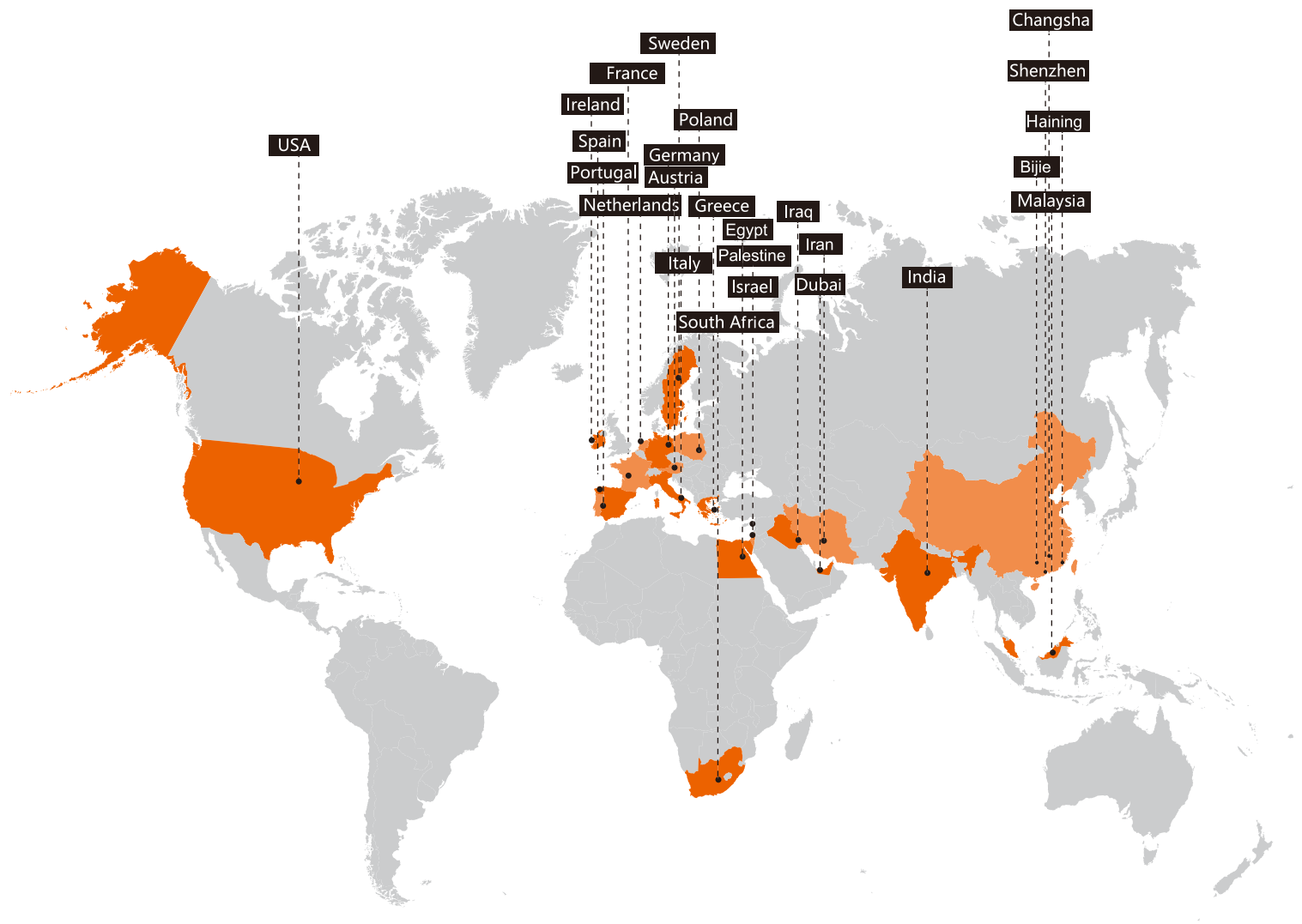
Changsha, Hunan (headq uarters),Shenzhen, zhejiang

Foreign Branch:

Munich, Germany

Sales Areas:

China, Europe, USA, Canada, Australia, Indonesia, Vietnam,Thailand ,India, Turkey, Dubai ,UAE, South Africa, Nigeria, Kenya,Guinea





## Become a HUAXING partner!

We are a comprehensive manufacturer and solution provider with core battery technology, covering various applications, and providing customized products and providing customized lithium batteries and energy storage system to the world. With high-quality products and first-class customer service, Huaxing's products are not only widely recognized in the domestic market, but also highly praised in more than 20 countries and regions such as Southeast Asia, West and South Africa, Europe, the United States, and the Middle East, and have also reached long-term cooperation with major famous enterprises in the world.

