



Energy Storage for a Better Tomorrow



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# SMART ENERGY STORAGE GREEN FUTURE

Safe · Efficient · Intelligent · Reliable

Empowering a sustainable future with innovative energy storage solutions.



High Voltage  
Battery Cabinet

Modular  
Battery Rack

All-in-One  
Energy Storage System

Wall-Mounted  
Battery

Stackable  
Battery

Floor-Standing  
Battery

2026

## Product Catalog

Xiamen Lefor energy storage Technology Co.,Ltd.

Delivering Leading Energy Storage Solutions to  
Global Partners

# About LeforEss

Founded in 2016, LeforEss is deeply committed to the renewable energy industry. Unlike traditional equipment suppliers, we are an integrated technology company specializing in the in-house R&D, design, and manufacturing of lithium batteries, solar panels, and solar inverters — combined with turnkey photovoltaic (PV) system services.

With our unique ability to produce all three core components, LeforEss ensures seamless synergy between power generation (panels), power conversion (inverters), and power storage (batteries). Whether for residential storage, commercial & industrial PV, or off-grid systems, we deliver tailored, plug-and-play solutions that make clean energy simple, efficient, and reliable.

What Sets Us Apart:

#### Complete PV system:

All three core components developed in-house for optimal system compatibility.

#### Cost & Efficiency Gains:

Reduce procurement complexity, lower costs, and streamline after-sales support.

#### Global Certifications:

Full range of products certified to international standards, trusted worldwide.

Founded 

2016



100+  
Employees



20000+  
Users



80+  
Covered  
Countries



10Years  
Experience

# Manufacturing Strength



**HIGH QUALITY**  
Strict quality control throughout the process

**HIGH SAFETY**  
Multiple protection for safe and reliable use

**HIGH EFFICIENCY**  
Advanced equipment and efficient production

**GLOBAL DELIVERY**  
Standardized production and rapid global delivery



18000m<sup>2</sup>  
Manufacture Base



2+GWH  
Annual Production Capacity

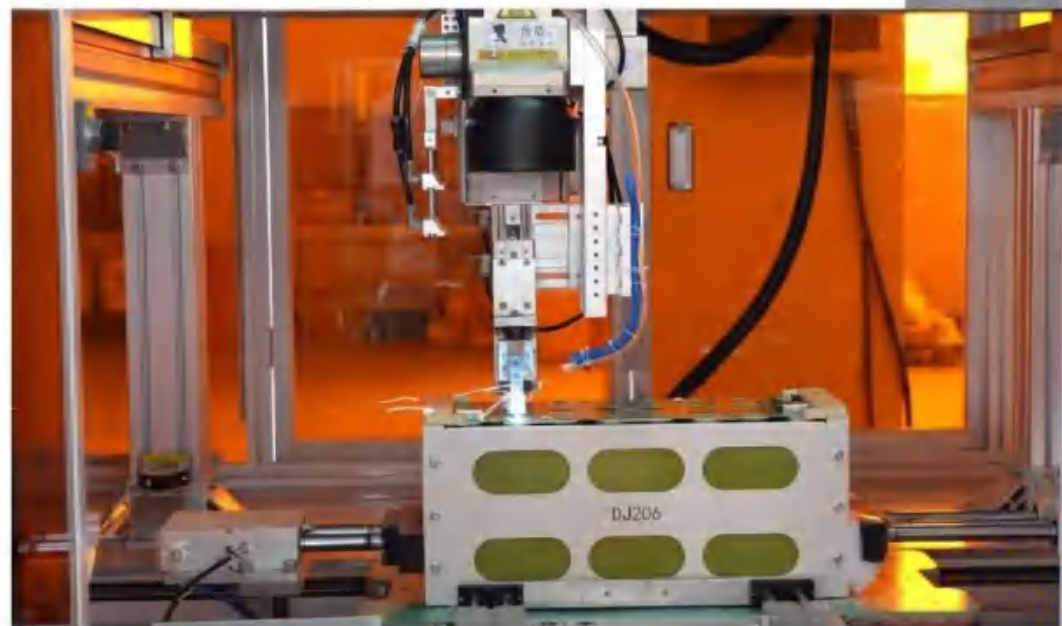


Authoritative  
Certification



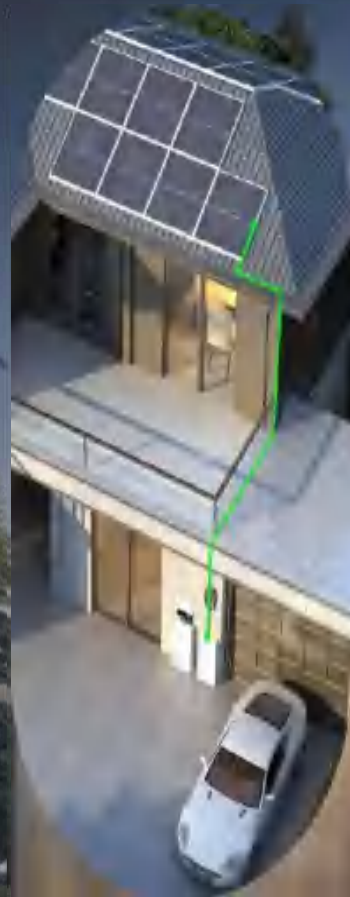
Automatic  
Production Line

# PRODUCTION CENTER



# Product Applications

Residence



Data Center



Power Plant



Commercial & Industrial



EV Charging Station



# ENERGY STORAGE SOLUTIONS

Powering a Sustainable Future

LeforEss delivers safe, reliable, and high-performance energy storage systems for residential, commercial and industrial applications.

-  Home
-  Business
-  Factory



Low Voltage Lithium Ion Battery  
Roller Type



Low Voltage Lithium Ion Battery  
Wall/Floor Mount



Low Voltage Lithium Ion Battery  
Roller Type



High Voltage  
ESS Cabinet




High Voltage  
Rack Mount




High Voltage  
Stackable




**High Safety**  
Multi-layer protection and intelligent BMS



**Long Life**  
6000+ cycles  
10+ years design life



**High Efficiency**  
Up to 95% round-trip efficiency



**Flexible Expansion**  
Modular design for easy capacity scaling

## OUR PRODUCT SERIES

### LOW VOLTAGE LITHIUM ION BATTERY

- Wall-Mounted
- Stacked
- Rack-Mounted

Flexible options for residential and small commercial energy storage.








### HIGH VOLTAGE ENERGY STORAGE SYSTEM

- ESS Cabinet
- Rack-Mounted
- Stacked

Scalable and high-performance solutions for commercial, industrial and utility-scale applications.

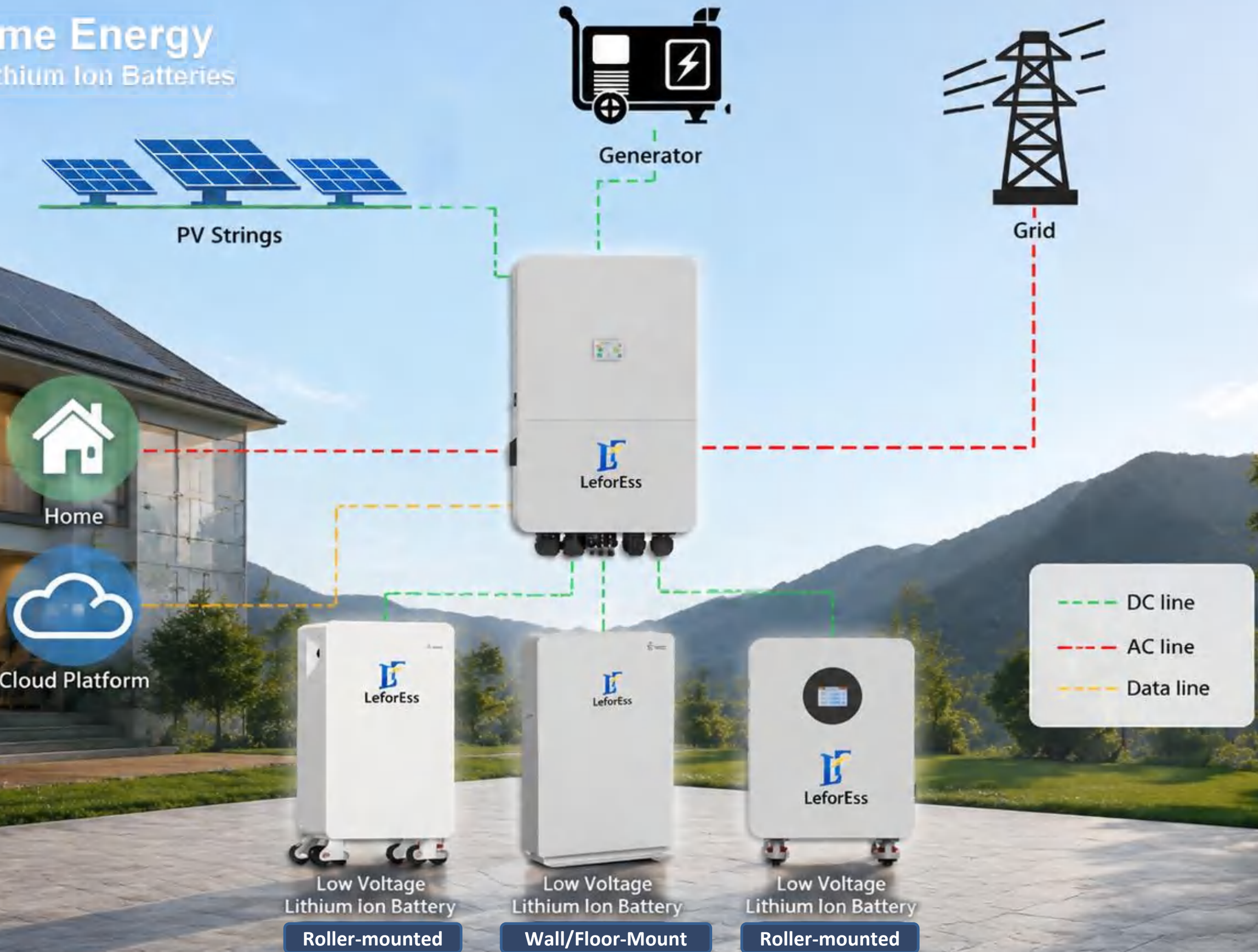


### APPLICATIONS

-  Residential Energy Storage
-  Microgrid & Off-grid Solutions
-  Commercial & Industrial Energy Storage
-  Backup Power & Energy Management
-  Renewable Energy Integration

# Smart Home Energy

Low Voltage Lithium Ion Batteries



**Low Voltage Lithium Ion Battery**



**Safty LiFePO4 & Smart BMS**

**High Charge&Discharge Current**

**Support Multiple Parallel Connection**



**UN38.3**

**51.2V100Ah 5KWH**

Rechargeable Lithium Iron Phosphate Battery



**Easy Install**  
Plug & Play



**Lifepo4**  
Better, Longer & Safer



**Waterproof**  
IP 54



**Wide Compatible**  
Multi Brand Inverter



**Intelligent**  
Smart & Secure



**Long Life Cycles**  
>6000Times

**Product Specifications**

Model	ELESHELL 5K
Battery Type	LiFePO4
Norminal Energy	5.12KWH
Norminal Voltage	51.2V
Norminal Capacity	100Ah
Max Charge/Discharge Current	75/100A
Max.Number of Parallel	15
Protection Level	IP54
Communications	RS485/CAN/RS232
Cycle Life (80%DOD,25°C)	>6000Cylces
Installation	Wall or floor mounting
Dimension (H*W*D mm)	610*370*163
Weight (KG)	44
Operating Temperature Range (°C)	0-55
Temperature.Control	Natrual Cooling
Storage Temperature	Charge:5°C~55°C;Discharge:-15°C~55°C
Certification	UN38.3,CE,IEC62619,MSDS,ROHS

**Product Detail**



Battery Pack



- 1.Power Interface
- 2.Battery Power Button
- 3.Communication Ports
- 4.Dialing Ports

163mm



610mm

370mm



Laser Welding Technology

Long service life

Cells Active Balance Technology

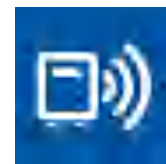


51.2V200Ah 10.24KWH

Rechargeable Lithium Iron Phosphate Battery



Easy Install  
Plug & Play



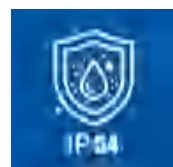
Wide Compatible  
Multi Brand Inverter



Lifepo4  
Better, Longer  
& Safer



Intelligent  
Smart & Secure



Waterproof  
IP 65



Long Life Cycles  
>6000Times



Product Specifications

Model	ELESHELL 10.2K
Battery Type	LiFePO4
Norminal Energy	10.24KWH
Norminal Voltage	51.2V
Norminal Capacity	200Ah
Max Charge/Discharge Current	100A
Max.Number of Parallel	15
Protection Level	IP65
Communications	RS485/CAN/RS232
Cycle Life (80%DOD,25°C)	>6000Cylces
Installation	Wall or floor mounting
Dimension (H*W*D mm)	871.1*519*133
Weight (KG)	92
Operating Temperature Range (°C)	0-55
Temperature.Control	Natrual Cooling
Storage Temperature	Charge:5°C~55°C;Discharge:-15°C~55°C
Certification	UN38 .3 ,CE-EMC ,IEC62619 ,MSDS ,ROHS

Product Detail





Laser Welding Technology

Support High Charge & Discharge Current

High Safety LiFePO4



Product Specifications	
Model	ELESHELL 16K
Battery Type	LiFePO4
Norminal Energy	16KWH
Norminal Voltage	51.2V
Norminal Capacity	314Ah
Max Charge/Discharge Current	200A
Max.Number of Parallel	15
Protection Level	IP54
Communications	RS485/CAN/RS232
Cycle Life (80%DOD,25°C)	>8000 Cycle
Installation	Floor mounting (Moveable Roller)
Dimension (H*W*D mm)	750*412*235
Weight(KG)	121
Operating Temperature Range (°C)	0-55
Temperature.Control	Natrual Cooling
Storage Temperature	Charge:5°C~55°C;Discharge:-15°C~55°C
Certification	UN38 .3 ,CE-EMC ,IEC62619 ,MSDS ,ROHS

51.2V314Ah 16KWH

Rechargeable Lithium Iron Phosphate Battery



Easy Install  
Plug & Play



Wide Compatible  
Multi Brand Inverter



Convenient  
Roller  
Moveable



Intelligent  
Smart & Secure



Waterproof  
IP 54



Long Life Cycles  
>8000Times



## Product Detail





## Product Specifications

Model	LF-THS 16K
Battery Type	LiFePO4
Norminal Energy	16KWH
Norminal Voltage	51.2V
Norminal Capacity	314Ah
Max Charge/Discharge Current	200A
Max.Number of Parallel	16
Protection Level	IP20
Communications	RS485/CAN
Cycle Life (80%DOD,25℃)	>8000 Cycle
Installation	Floor mounting (Moveable Roller)
Dimension (H*W*D mm)	717*500*240
Weight(KG)	129
Operating Temperature Range (℃)	0-55
Temperature.Control	Natrual Cooling
Storage Temperature	0℃ ~ 45℃ @ 60%±25% RH
Certification	IEC62619-CB,CE-EMC,UN38 .3,MSDS

**51.2V314Ah 16KWH**

Rechargeable Lithium Iron Phosphate Battery



**Easy Install**  
Plug & Play



**Wide Compatible**  
Multi Brand Inverter



**Convenient**  
Roller  
Moveable



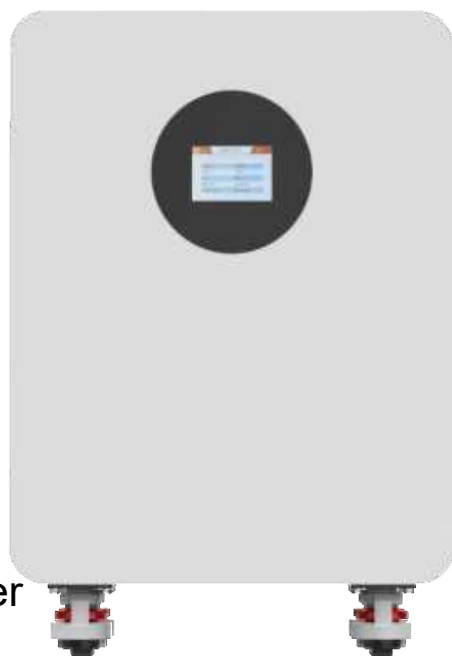
**Intelligent**  
Smart & Secure



**Lifepo4**  
Better, Longer  
& Safer



**Long Life Cycles**  
>8000Times



## Product Detail

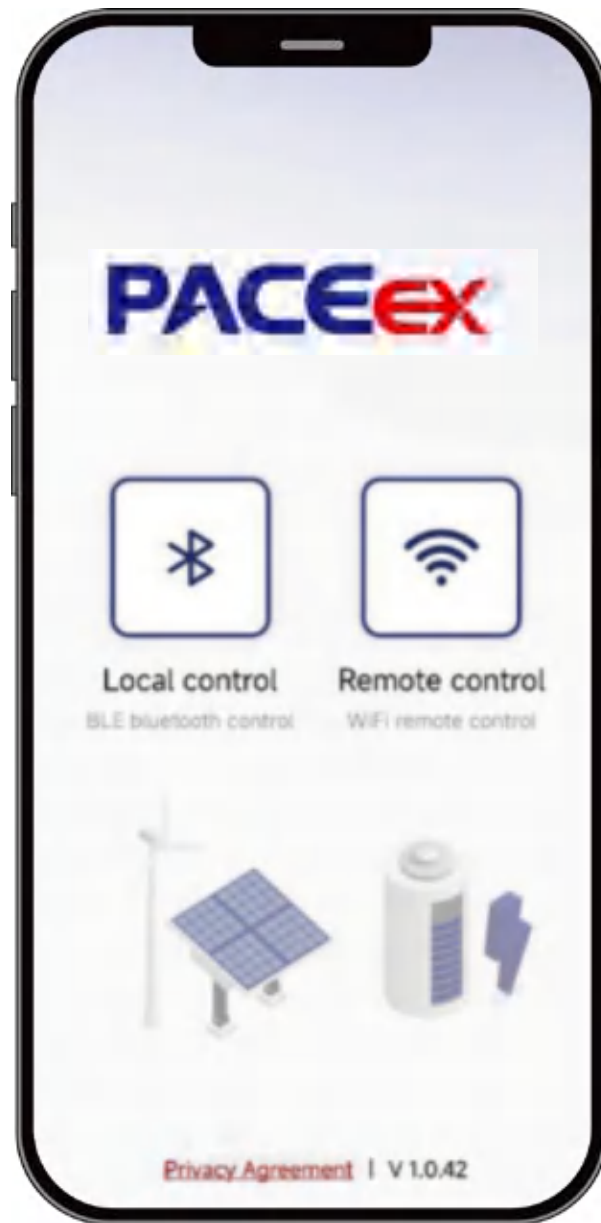


# Low Voltage Wifi Monitoring



## Smart Energy Management

Built-in WiFi monitoring device for batteries: supports local Bluetooth and WiFi remote control. Allows online monitoring, maintenance, local commissioning, and firmware upgrades



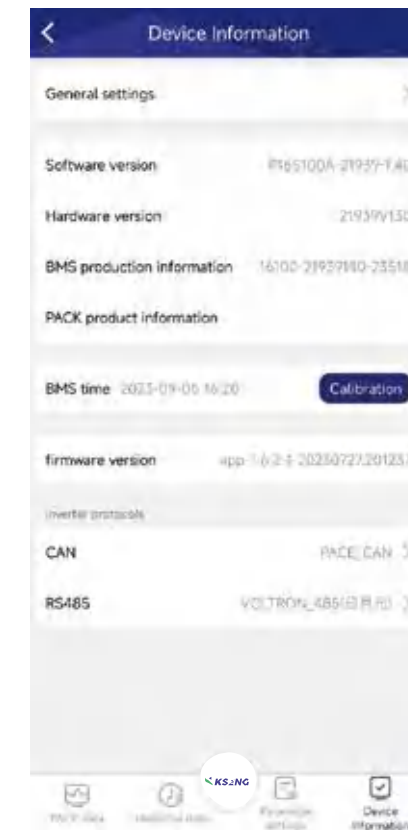
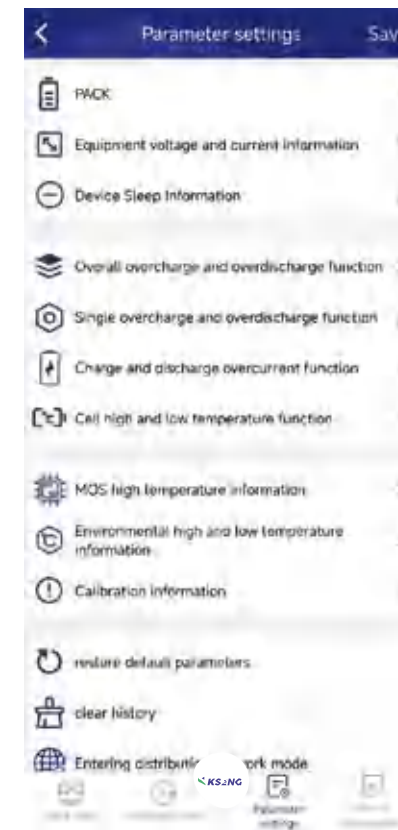
## Local Control

BLE Bluetooth communication with your battery when you're nearby. No login required—it's ready to use

## Remote Control

With WiFi communications, your batteries connect wirelessly to the monitoring platform. Access historical data from a centralized data center, and remotely monitor and control your battery via the app

# App User Interface Display



# COMMERCIAL & INDUSTRIAL SOLAR POWER SYSTEM

Powering Businesses. Sustaining the Future.



**Reduce Energy Costs**  
Lower your electricity bills with clean solar energy.



**Increase Energy Independence**  
Generate your own power and protect against rising energy costs.



**Sustainable & Green**  
Reduce your carbon footprint and support a cleaner planet.



**Reliable & Low Maintenance**  
High-performance systems built for long-term reliability.



**CUSTOM ENGINEERING**  
Tailored solutions for your business needs.



**PROFESSIONAL INSTALLATION**  
Expert installation with quality assurance.

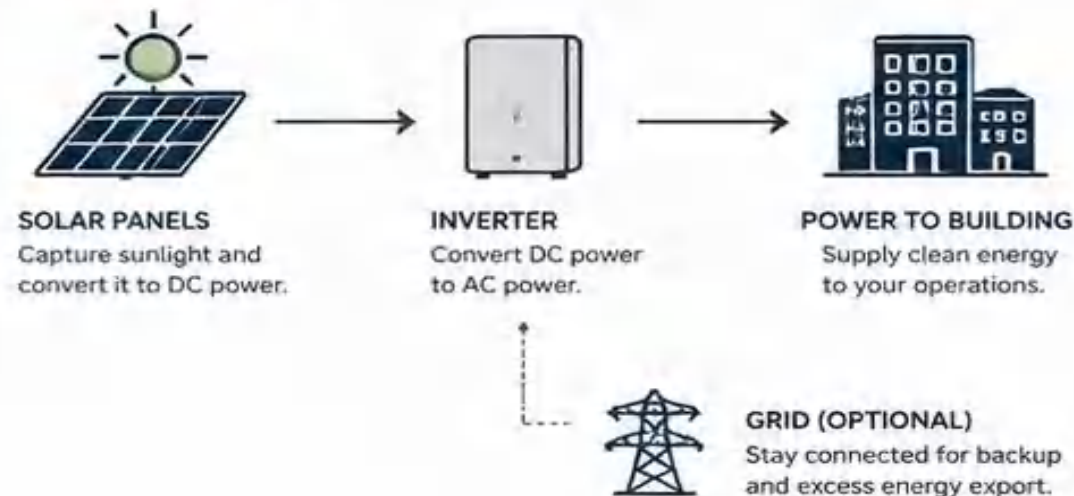


**SMART MONITORING**  
Real-time monitoring for maximum performance.



**AFTER-SALES SUPPORT**  
Dedicated support for peace of mind.

## HOW IT WORKS



## IDEAL FOR

- Factories & Warehouses
- Commercial Buildings
- Shopping Centers
- Offices & Institutions
- Hotels & Resorts
- Agricultural Facilities



# HIGH VOLTAGE ENERGY STORAGE BATTERY

Safe • Reliable • Efficient • Flexible

Advanced high-voltage battery solutions designed for commercial, industrial and utility-scale energy storage applications.



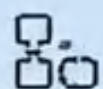
High Safety



Long Life



High Efficiency



Flexible Expansion





### ● Reliable – Power You Can Trust

Built with premium Lithium Iron Phosphate (LFP) cells for ultimate safety, high energy density, low self-discharge, zero memory effect — and a protective cut-off switch for complete peace of mind.



### ● Flexible – Scales to Your Needs

Choose from multiple capacity packs. Start with one unit, expand to 17 units, or connect up to 4 sets in parallel for a massive capacity power.

Simple rack or cabinet installation — saves space, cuts costs.



### ● Smart – Intelligent Energy Management

- Advanced BMS actively monitors voltage, current, and temperature, auto-adjusting power for optimal performance.
- Clear display + SOC indicator lights give real-time status at a glance. Switch communication protocols easily.
- Built-in WiFi + mobile app — monitor, adjust, and upgrade from anywhere.
- Smart fan + cooling shell design keeps the battery running cool and safe.



### ● Cooperation – Built Your Way

Full support for customization — OEM/ODM ready. Your brand, your specs.



### ● Quality Assurance – Long-Term Confidence

5-year free warranty worry-free energy storage.



Overcharge Protection



Overdischarge Protection



Overcurrent Protection



Temperature Protection



Short Circuit Protection



Balanced Protection

Model	ET-51.2V100Ah-HV	
BASIC INFORMATION	Cell Chemistry	LiFePO4
	Module Energy	5.12(kWh)
	Module Nominal Voltage	51.2(V)
	Module Capacity	100(Ah)
	Module Dimension	355*567*150(W/D/H,mm)
	Module Weight Approximate	42.5(kg)
ELECTRICAL PARAMETERS	Battery Module Qty In Series	4-10(Optional)
	System Nominal Voltage	204.8-512(V)
	System Operating Voltage	185.6~576(V)
	System Energy	20.48-51.2(kWh)
	System Usable Energy	18.43-46.08(kWh)
	Charge/Discharge Current	Recommend: 50(A)   Max: 50(A)
	Working Temperature	0~60(°C)
	Cooling Mode	Natural Cooling
	Communication Port	CAN, RS485
	Humidity	5%~85%RH
	Altitude	≤2000m
	IP Rating of Enclosure	IP21
	DIMENSION&WEIGHT	Dimension
Weight Approximate		185-440(kg)
INSTALLATION&STORAGE	Installation Location	Stack Mounting, Iron Frame Mounting
	Storage Temperature	0~35(°C)
	Recommend Depth of Discharge	90%
RELIABILITY	Cycle Life	≥6000 times
	Warranty	5 years
	Certification	CE, MSDS, UN38.3
Note:The current is affected by temperature and SOC		

Model	ET-51.2V200Ah-HV	
BASIC INFORMATION	Cell Chemistry	LiFePO4
	Module Energy	10.24(kWh)
	Module Nominal Voltage	51.2(V)
	Module Capacity	200(Ah)
	Module Dimension	383*605*240(W/D/H,mm)
	Module Weight Approximate	77(kg)
ELECTRICAL PARAMETERS	Battery Module Qty In Series	4-10(Optional)
	System Nominal Voltage	204.8-512(V)
	System Operating Voltage	185.6~576(V)
	System Energy	40.9-102.4(kWh)
	System Usable Energy	36.86~92.16(kWh)
	Charge/Discharge Current	Recommend: 80(A)   Max: 100(A)
	Working Temperature	0~60(°C)
	Cooling Mode	Natural Cooling
	Communication Port	CAN, RS485
	Humidity	5%~85%RH
	Altitude	≤2000m
	IP Rating of Enclosure	IP21
	DIMENSION&WEIGHT	Dimension
Weight Approximate		323-785(kg)
INSTALLATION&STORAGE	Installation Location	Stack Mounting, Iron Frame Mounting
	Storage Temperature	0~35(°C)
	Recommend Depth of Discharge	90%
RELIABILITY	Cycle Life	≥6000 times
	Warranty	5years
	Certification	CE, MSDS, UN38.3
Note:The current is affected by temperature and SOC		



### SUPERIOR LFP CELL TECHNOLOGY

- High energy density, ultra-low self-discharge, no memory effect
- Built-in protective cut-off switch for enhanced safety



### FLEXIBLE & EXPANDABLE DESIGN

- Single unit expands to up to 17 units (243-272 kWh total capacity)
- Stackable modules – small footprint, lower economic cost



### SMART BMS WITH TOUCHSCREEN

- Real-time monitoring of voltage, current, temperature
- Automatically adjusts charge/discharge power
- Touchscreen display: battery status, data, fault diagnosis & management



### STABLE THERMAL MANAGEMENT

- Air-cooled system with cooling fan and heat sink
- Maintains optimal temperature under continuous high-load operation
- Extends battery life and ensures operational stability



### CUSTOMIZATION READY

- OEM / ODM services available



### QUALITY ASSURANCE

- 5-year warranty



	Model	51.2V280Ah-HV	51.2V314Ah-HV
BASIC INFORMATION	Cell Chemistry	LiFePO4	
	Module Energy	14.34(kWh)	16.08(kWh)
	Module Nominal Voltage	51.2(V)	
	Module Capacity	280(Ah)	314(Ah)
	Module Dimension	734*550*220(W/D/H,mm)	
	Module Weight Approximate	110(kg)	118(kg)
ELECTRICAL PARAMETERS	Battery Module Qty In Series	5-14(Optional)	
	System Nominal Voltage	256-716.8(V)	
	System Operating Voltage	232~649.6(V)	
	System Energy	71.68-200.7(kWh)	80.3-225.08(kWh)
	System Usable Energy	64.51-180.63(kWh)	72.34-202.57(kWh)
	Charge/Discharge Current	Recommend: 140(A)   Max: 170(A)	Recommend: 160(A)   Max: 200(A)
	Working Temperature	-10~55(°C)	
	Cooling Mode	Fan Cooling	
	Communication Port	CAN, RS485	
	Humidity	5%~95%RH	
	Altitude	≤2000m	
DIMENSION & WEIGHT	IP Rating of Enclosure	IP20	
	Dimension	610*734*1430~1562(W/D/H,mm)	
INSTALLATION & STORAGE	Weight Approximate	572-1562(kg)	612-1674(kg)
	Installation Location	Stack Mounting, Iron Frame Mounting	
RELIABILITY	Storage Temperature	0~35(°C)	
	Recommend Depth of Discharge	90%	
	Cycle Life	≥8000 times	
	Warranty	5 years	
	Certification	CE, UN38.3, MSDS	
Note:The current is affected by temperature and SOC			

# HIGH VOLTAGE WIFI MONITORING



Built-in WiFi monitoring device for batteries:  
supports local Bluetooth and WiFi remote control. Allows online monitoring, maintenance, local commissioning, and firmware upgrades

## Preparation Before Network Distribution

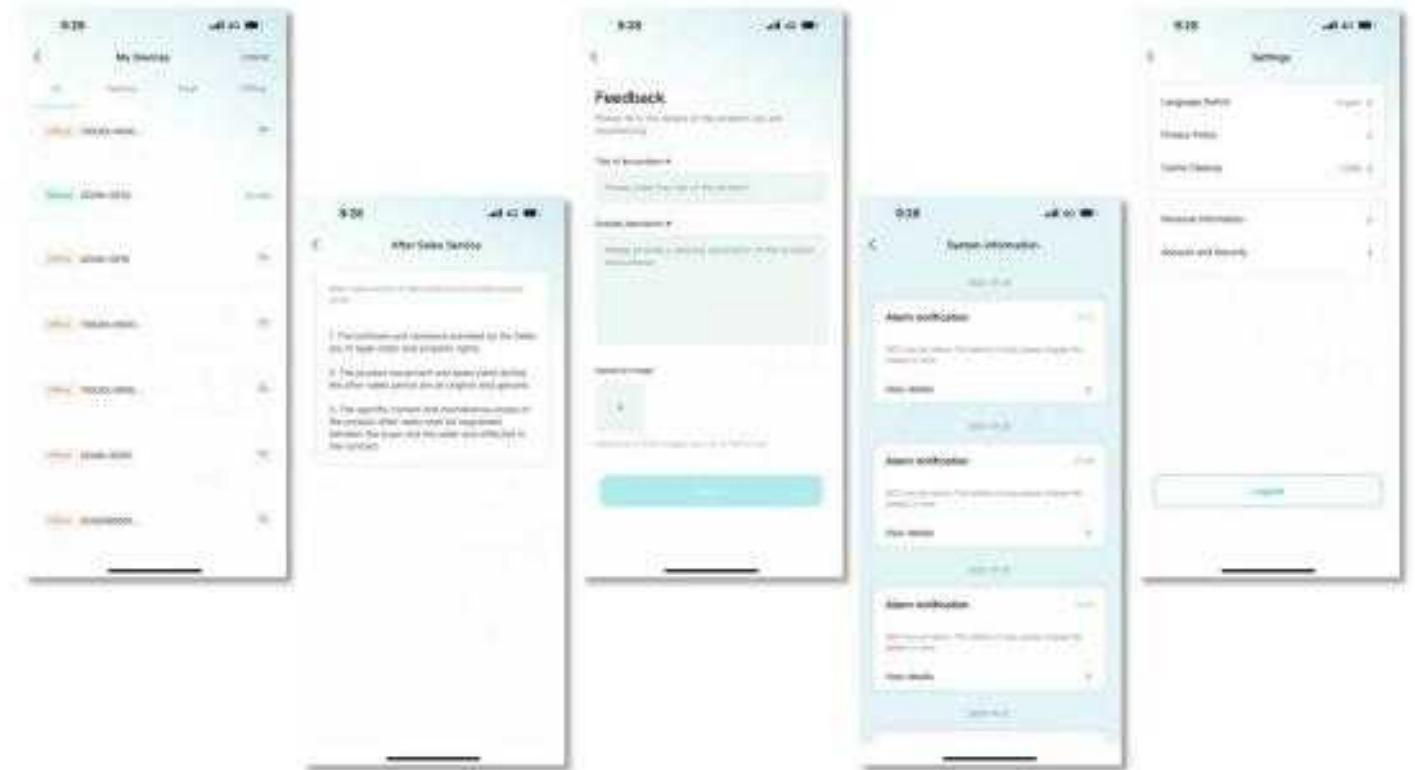
- Ensure the device is powered on.
- Turn on your mobile phone's Bluetooth and Wi-Fi (WLAN) functions.

## Connect to Wi-Fi (after the device is connected):

- Select the Wi-Fi network you wish to use and tap the "Connect" button.
- Enter the Wi-Fi password, then tap the "Finish" button to complete the network setup.



# APP INTERFACE DISPLAY



# SMART ENERGY STORAGE SOLUTION

Safer • Flexible • Reliable • High Performance • Eco-Friendly



## Safer

- Cobalt-free LFP battery: safe, long-life, high efficiency & energy density.
- Built-in intelligent BMS for full protection.



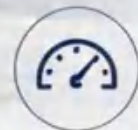
## Flexible

- LiFePO<sub>4</sub> + optional hybrid inverter.
- Single module: 6-11 cells.
- Max. 10 cabinets in parallel.



## Reliable

- IP54, fire protection, AC + fan cooling.
- Smart temp control (-20°C to 60°C), supports outdoor installation.



## High Performance

- 100A max discharge current.
- High rate – more load at the same cost.



## Eco-Friendly

- Non-toxic, pollution-free materials.



## Quality Assurance

- 5-year free warranty.



SAFE & SECURE



MODULAR & SCALABLE



INTELLIGENT THERMAL MANAGEMENT



HIGH PERFORMANCE OUTPUT



GREEN ENERGY SOLUTION



5-YEAR WARRANTY

	Model	HV51.2V200Ah
ELECTRICAL PARAMETER	Cell Chemistry	LiFePO <sub>4</sub>
	Module Energy	10.2(kWh)
	Module Nominal Voltage	51.2(V)
	Module Capacity	200(Ah)
	Module Dimension	396*575*248(W/D/H,mm)
	Module Weight Approximate	77(kg)
	Battery Module Qty in Series	6-11(Optional)
	System Nominal Voltage	307.2-563.2(V)
	System Operating Voltage	278.4-633.6(V)
	System Energy	61.44-112.64(kWh)
	System Usable Energy	55.3-101.38(kWh)
DIMENSION&WEIGHT	Charge/Discharge Current	Recommend: 50(A), Max: 100(A)
	Working Temperature	-20~60°C
	Cooling Mode	Air Conditioner
	Communication Port	CAN, RS485
	Humidity	5%~85%RH
	Altitude	<2000m
	IP Rating of Enclosure	IP54
	Dimension	1394*1015*2164.5(W/D/H,mm)
INSTALLATION & STORAGE	Weight Approximate	965-1350(kg)
	Installation Location	Integrated cabinet Installation
RELIABILITY	Storage Temperature	0~35°C
	Recommend Depth of Discharge	90%
	Cycle Life	≥6000 times
	Warranty	5 years
	Certification	CE, MSDS, UN38.3

Note:The current is affected by temperature and SOC

# Compatible List of Inverters Brands

## 40~60VDC



## 100~1500VDC





**Project  
Reference**



## GLOBAL SERVICES

