

# Uhome

**Uhome Smart Energy(Wuxi)Co.,Ltd.**

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**ENERGY STORAGE SOLUTIONS**

OUR ENVIRONMENT, OUR ENERGY, OUR FUTURE



## Dedicate to Human-Oriented

Following the concept of 'bearing in mind the mission of satisfying customers' demands

# Uhome



Residential Energy Storage Solution



IDC Backup Power Solution



C&I Energy Storage Solution

Uhome Smart Energy (Wuxi) Co., Ltd. is located in Huishan District, Wuxi City, Jiangsu Province, China, mainly R&D and manufacture lithium-ion battery for residential energy storage systems and small industrial and commercial energy storage system. The mission of company is "Our environment, our energy, our future".Energy storage products rely on the company's proprietary advanced battery management system (BMS) and its Self-developed patented technology, has passed TUV, IEC, CEC and other international certification. The products have been sold in the EU, UK, South-east, Asia, Australia, New Zealand, Japan, the Middle East and other countries and regions, Uhome energy storage battery bring customer great using experience.

The company's production base covers an area of about 23,585 square meters, and the R&D building covers an area of about 3,589 square meters.The factory is equipped with 2 modern production line equipment, which can produce high-quality products while greatly improving production efficiency.At present, the annual production capacity of the factory can reach 1.5GWH lithium battery energy storage system.



**10 Years**  
10 Years Warranty



**100+**  
Technology Patents



**10%**  
Continuous R&D investment



**300MW+**  
Delivered Capacity



**30+**  
Engineers

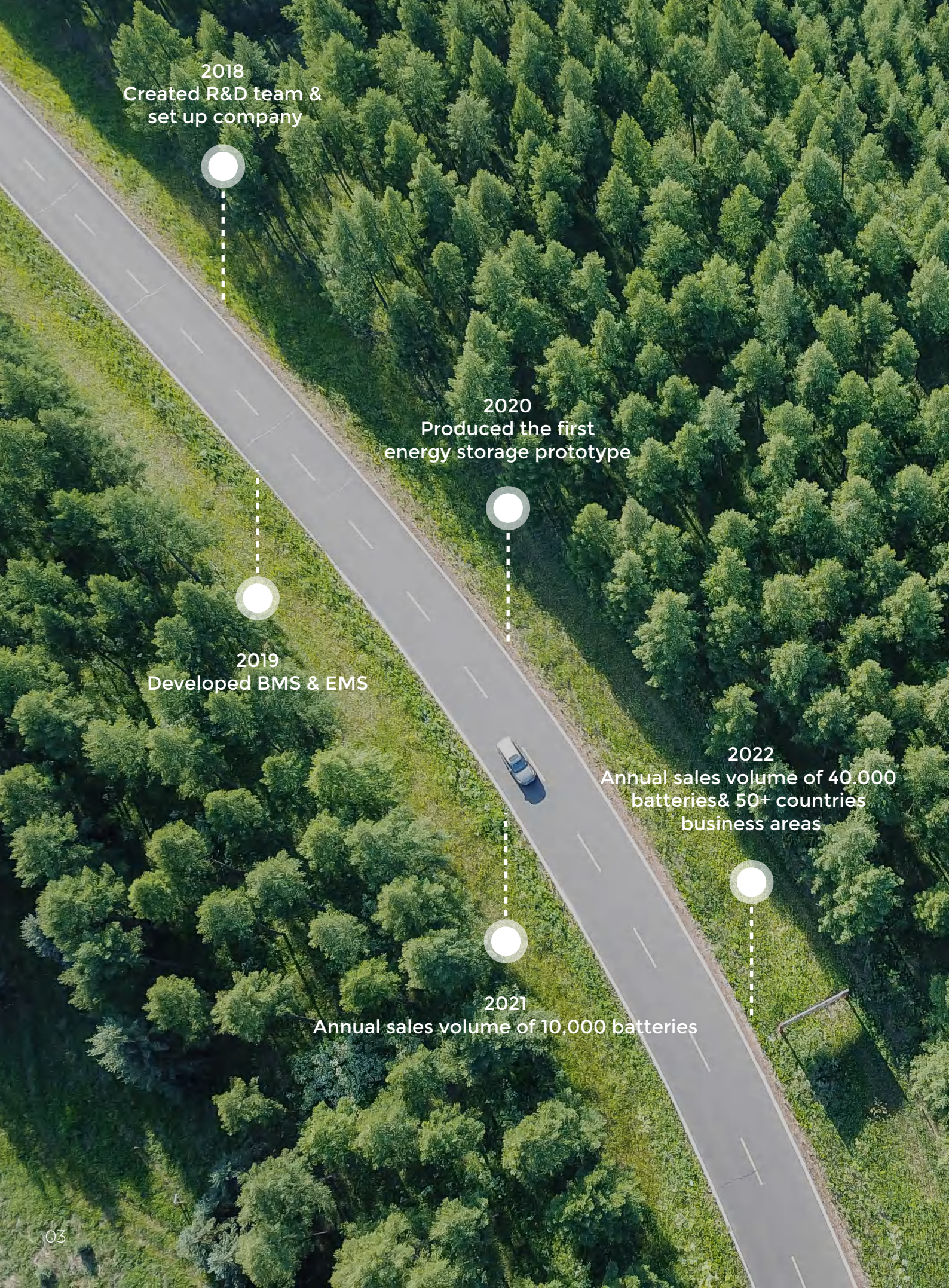


**20,000**  
Square Meter



**50+ countries**  
Business Areas





2018  
Created R&D team &  
set up company

2020  
Produced the first  
energy storage prototype

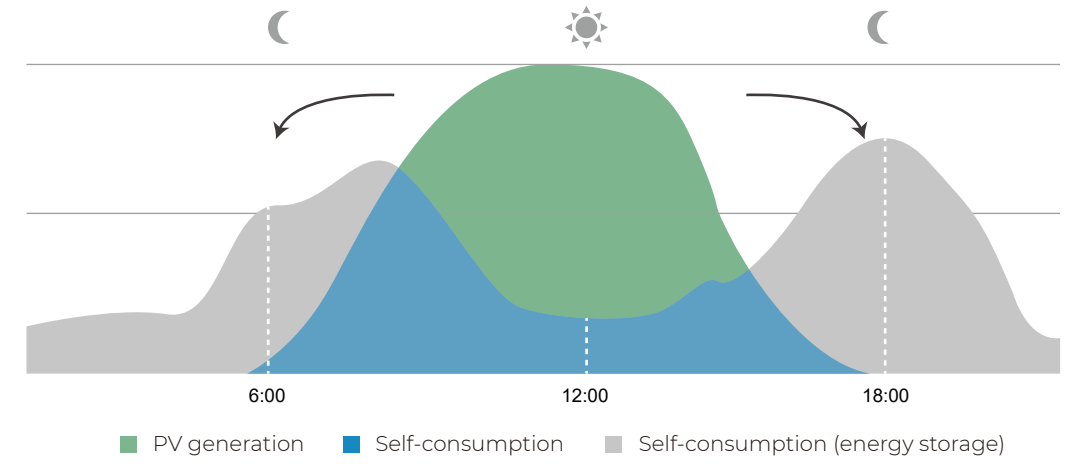
2019  
Developed BMS & EMS

2022  
Annual sales volume of 40,000  
batteries & 50+ countries  
business areas

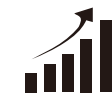
2021  
Annual sales volume of 10,000 batteries

## Residential Energy Storage Solution

Integrated with lithium-ion battery energy storage system and home energy management system, the solution is expandable on demand and has a variety of combinations. Flexible, efficient and customized products and services, it is friendly to home users to build a clean, independent and economic micro-grid.



## Strengths



### More Usable Energy

90% Depth of Discharge  
Pack Level Energy Optimization



### Flexible Installation

Modular Design,  
Scalable from 8 to 64 pcs installation



### Safe & Reliable

Lithium Iron Phosphate (LFP) Cell



### Easy Installation

Rack-mounted,  
wall-mounted, stacked, etc.



### Quick Commissioning

Automatically Detected in App  
for better after-sales experience



### Perfect Compatibility

Compatible to Both Residential  
Single or Three Phase Inverter



## PRODUCTS PORTFOLIO

OUR ENVIRONMENT, OUR ENERGY, OUR FUTURE

- 01) Uhome-LFP 5.0 / 5.8 / 10.0 kWh / LV
- 02) Uhome-LFP 5000 / 2400 / 2500 / 2600HV
- 03) Uhome-LFP 2.4-19.2 kWh
- 04) Uhome-LFP 4.8-19.2 kWh
- 05) Monitoring System



UHOME invested in the construction of a new production base in Huishan District, Wuxi City at the end of 2019. The total construction area is 20,661 square meters. It has been used in May 2021.

The new production base can accommodate an annual output of 0.8 GWH lithium battery energy storage system. It is a key development project in Huishan District, Wuxi City.



Designs, Manufactures &  
Delivers Battery Energy Storage Systems

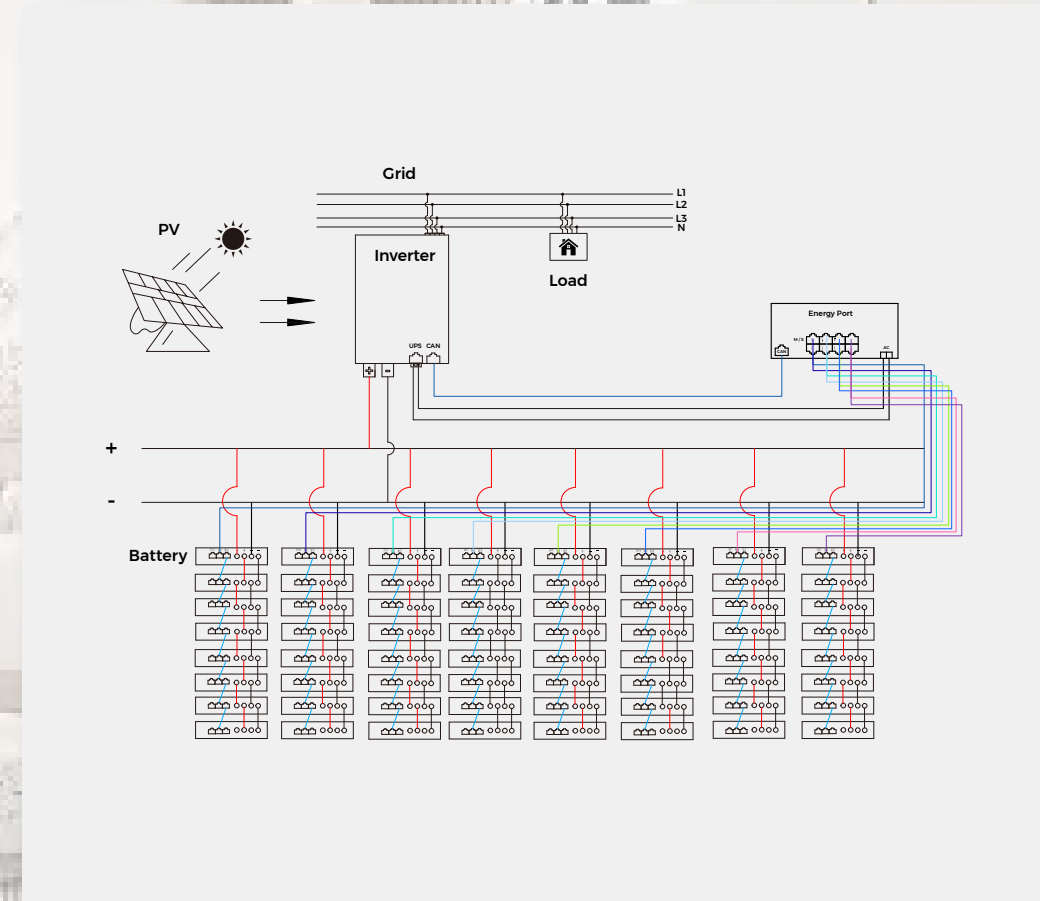
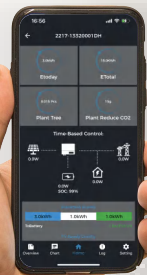
Uhome

# Residential BESS

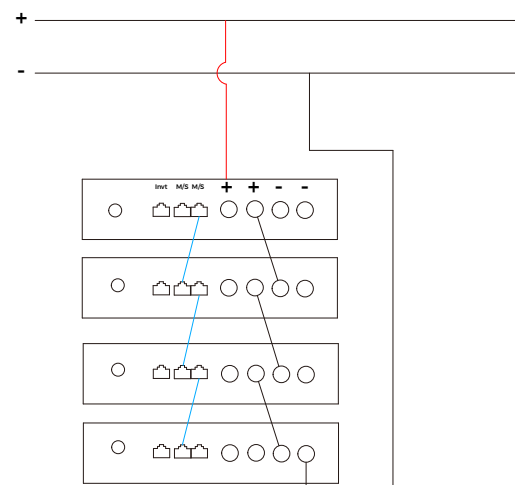
## Uhome-LFP 5000 / 2400 / 2500 / 2600HV



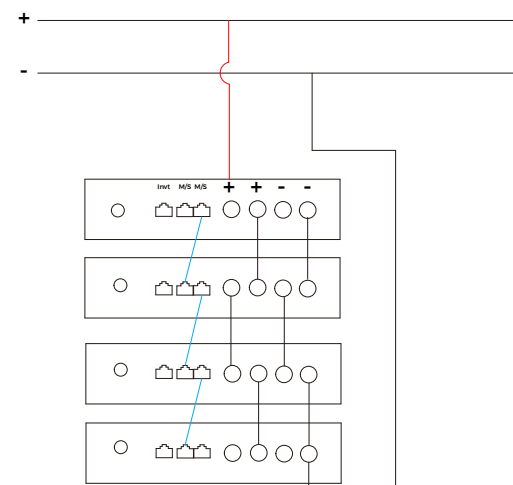
- Long Life Reliable LFP cells, Cycle life >6000 cycles
- High Reliability Key devices (Relay, Fuse) approved by UL and IEC
- More Smart With digital monitor system App with WIFI
- Smart Design & Easy installation Plug in & off
- More Quiet Without fan, reduce the risk of fan failure



4S



4P



- Assembly freely in series or parallel Up to 8S8P
- High energy efficiency (charge and discharge) >97%
- High Rate Charge & Discharge Nominal 0.6C, Max 0.8C
- More Safety Dual hardware & Triple software protection
- Safe and Reliable BMS Relay design instead of mosfet



# 7 CORE ADVANTAGES

①

## On/off management including automatic wake-up function

Due to the complex operating conditions of the off-grid system, in rare circumstances the battery will run out of power. It enables the customers to solve the problem of manual operation.

②

## Triple electrical safety protection

User's safety will be effectively guaranteed.

③

## Series and parallel supported

Products of the same model can be installed in series or in parallel.

④

## SOC dynamic calibration

Sophisticated strategy allows SOC to calibrate itself and make it more precise.

⑤

## Battery Integration Strategy

The case that customers add a new battery to the original system in their later usage can be matched by this strategy.

⑥

## Current and single voltage acquisition accuracy

It ensures precise acquisition of current and voltage.

⑦

## Remote monitoring

Our products support both Web-side and App-side data monitoring.

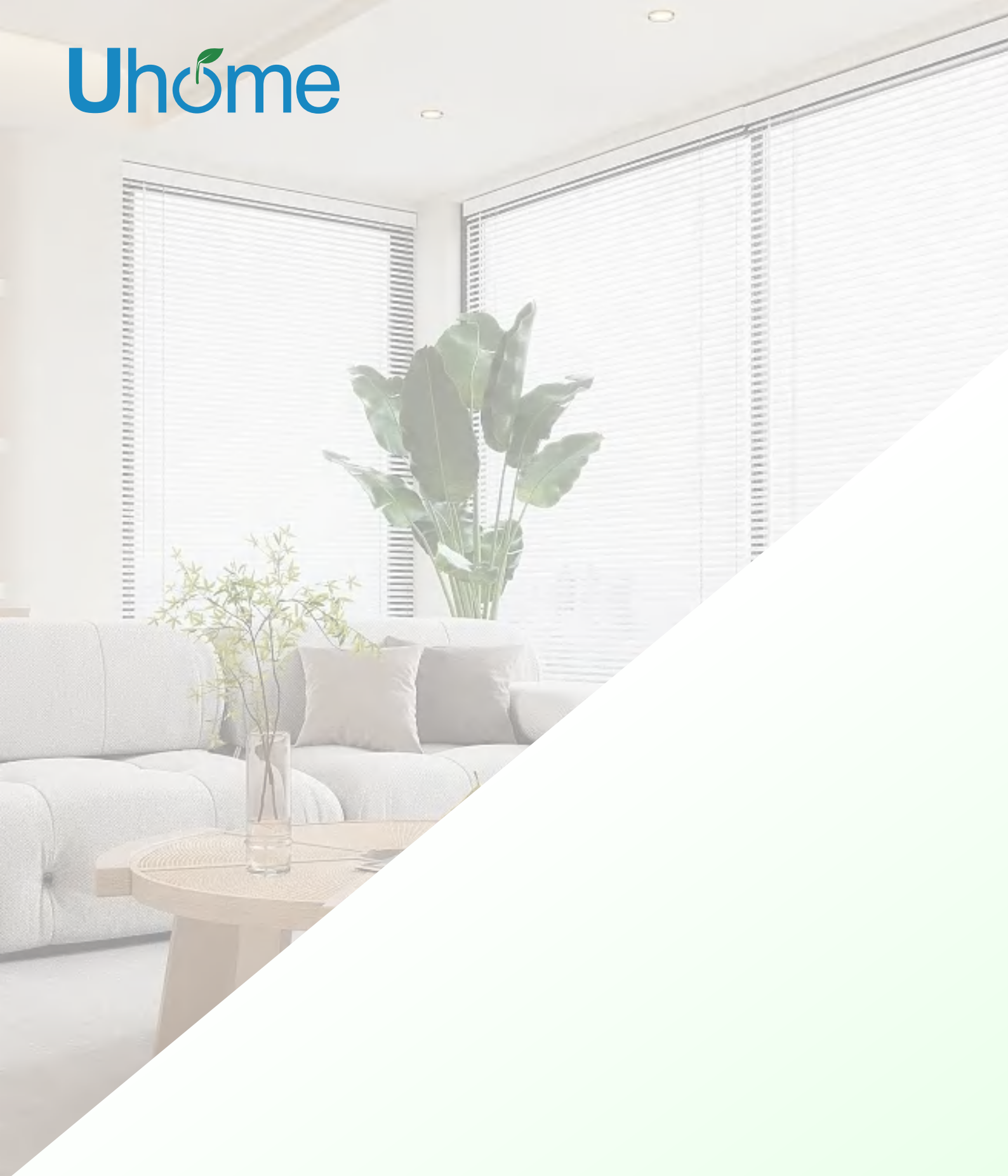
## Technical Specifications

Model	Uhome-LFP 5000	Uhome-LFP 2400	Uhome-LFP 2500	Uhome-LFP 2600HV
Total Energy*	5.1kWh	2.4kWh	2.5kWh	2.56kWh
Usable Energy(DC)*	4.8kWh	2.2kWh	2.3kWh	2.2kWh
Nominal Dis-/Charge Power	3.0kW	1.5kW	1.5kW	1.5kW
Peak Power(Only Discharge)	6kW for 3s	3kW for 3s	3kW for 3s	3kW for 3s
Constant Current(Only Discharge)	80A	40A	40A	20A
Voltage	48~56Vd.c	48~56Vd.c	48~56Vd.c	96~112Vd.c
Nominal Voltage	51.2Vd.c	51.2Vd.c	51.2Vd.c	102.4Vd.c
Nominal Current	60A	30A	30A	15A
Max. Charge Voltage	57.6Vd.c	57.6Vd.c	57.6Vd.c	115.2Vd.c
Weight	45kg	27.5kg	27kg	27kg
Dimension(mm)	500*448*135mm	500*442*133mm	500*442*88mm	500*442*88mm
Max.recommended DOD	90%			
Operating Condition	Indoor			
Operating Temperature	Charge	From 0~50℃		
	Discharge	From -10~55℃		
WIFI Frequency Range	2400MHz~2483MHz			
Humidity	<60%(No condensed water)			
Over Voltage Category	II			
Cooling Type	Natural cooling			
Case Material	Metal			
Color	Black or White			
Installation	Wall mounting/Ground Installation			
IP rating	IP 20			
Protective Class	I			
Max. Connection Number	8S/8P	8S/8P	8S/8P	4S
Warranty	10 years			
Life Span	>15 years			
Communication	CAN/ RS485			
Protection Mode	Dual hardware protection			
Battery Protection	Over-current/Over-voltage/Short circuit/ Under-voltage/Over temperature			
Safety	Cell UL 1973	Cell UL 1973	Cell TUV	Cell TUV
	CE/TUV			
Hazardous Material Classification	9			
Transportation	UN 38.3			

Testing conditions based on temperature 25℃ at the beginning of life.

\*Total Energy/Usable Energy measured under specific conditions from Uhome 0.2C CC-CV





## Monitoring System



### Intelligent and Thoughtful

Accurate algorithms for real-time monitoring and data transmission

### Turning Complexity into Simplicity

Optimize framework layout

### Full-Featured Entrance

Streamline information communication

### Tab Section Emotional Design

Visual design from user needs

The app independently developed by Aobo can accurately locate the installation location of products, display the equipment operation status or possible faults in real time, and turn passive service into active service, so as to ensure that customers can use Aobo energy storage products within 24 hours.





# Certification & Honor



**Attestation of Conformity**  
No. TSEA 102470 0017 Rev. 00

Holder of Certificate: AOB ENVIRONMENTAL NEW ENERGY (WUXI) CO., LTD.

Product: Batteries (Rechargeable Lithium Ion Battery system)

Test report no.: 847102010001

Date: 2020-07-02



**UN 38.3 检测报告**  
Test Report

Model(s): 5000

Brand Name: AOB

Parameters: Nominal voltage: 51.2V; Rated capacity: 500Ah

Tested according to: IEC 62133:2017

Date: 2021-11-05



**CERTIFICATE**  
No. B 102470 0013 Rev. 00

Model(s): 5000

Brand Name: AOB

Parameters: Nominal voltage: 51.2V; Rated capacity: 500Ah

Tested according to: IEC 62133:2017

Date: 2021-11-05



**CERTIFICATE**  
No. B 102470 0017 Rev. 00

Model(s): 5000

Brand Name: AOB

Parameters: Nominal voltage: 51.2V; Rated capacity: 500Ah

Tested according to: IEC 62133:2017

Date: 2021-11-05



**CERTIFICATE**  
No. B 102470 0017 Rev. 00

Model(s): 5000

Brand Name: AOB

Parameters: Nominal voltage: 51.2V; Rated capacity: 500Ah

Tested according to: IEC 62133:2017

Date: 2021-11-05



**CERTIFICATE**  
No. B 102470 0017 Rev. 00

Model(s): 5000

Brand Name: AOB

Parameters: Nominal voltage: 51.2V; Rated capacity: 500Ah

Tested according to: IEC 62133:2017

Date: 2021-11-05



**CERTIFICATE**  
No. B 11228 1004 Rev. 00

Holder of Certificate: Uhome Smart Energy (Wuxi) Co., Ltd.

Product: Batteries (Battery System (Rechargeable Lithium Ion Battery System))

Parameters: Nominal voltage: 48VDC; Rated capacity: 1000Ah

Tested according to: IEC 62946-1:2017

Date: 2020-09-03



**检验报告**  
Test Report

Model(s): LFP 5000

Parameters: Nominal voltage: 48VDC; Rated capacity: 1000Ah

Tested according to: IEC 62946-1:2017

Date: 2020-09-03



# Global Delivery

