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Focus on energy storage battery & air handling since 1999



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

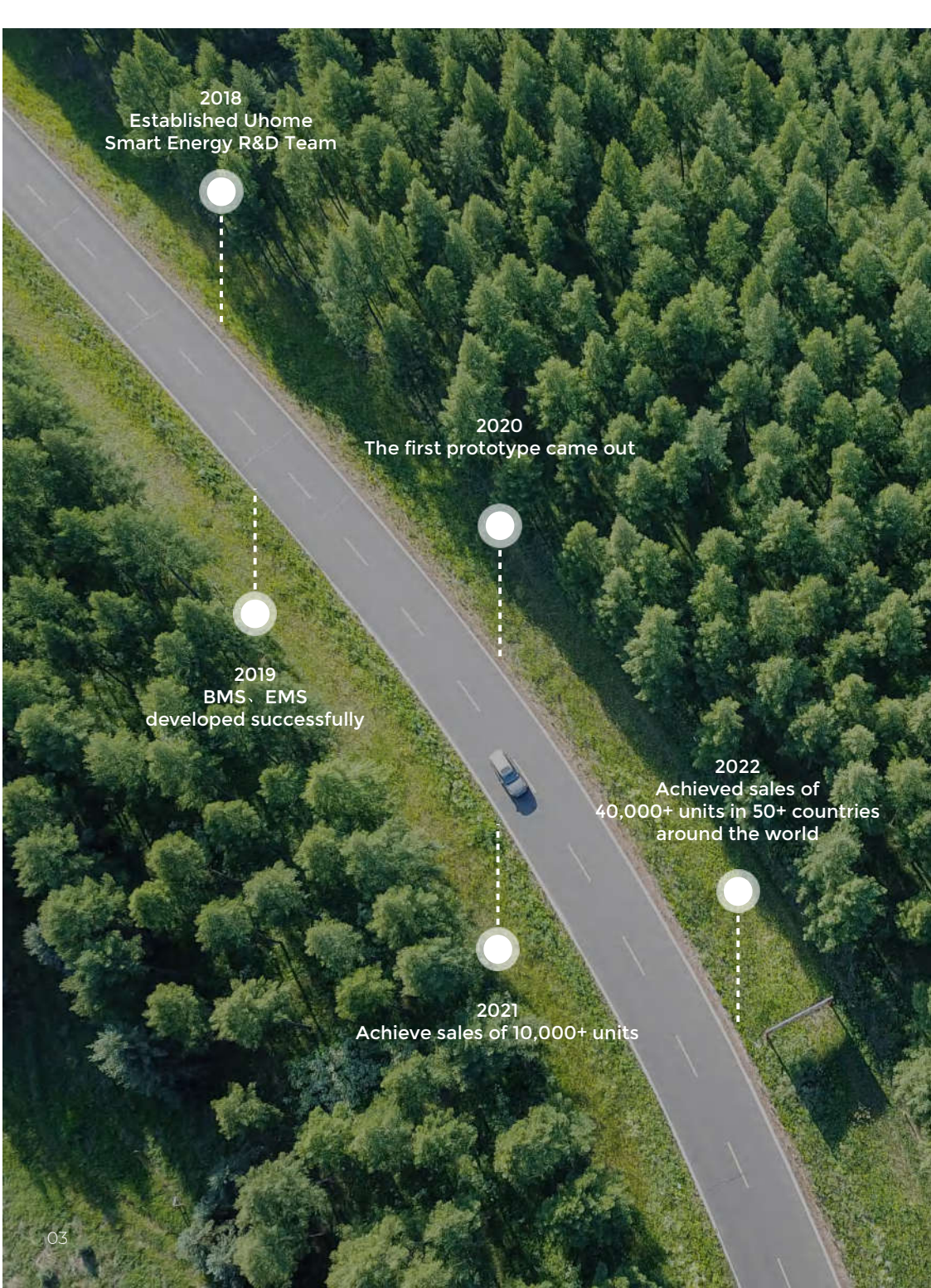
 **10%**
Continuous R&D investment

 **300MW+**
Delivered Capacity

 **30+**
Engineers

 **20,000**
Square Meter

 **50+ countries**
Business Areas



2018
Established Uhome
Smart Energy R&D Team

2020
The first prototype came out

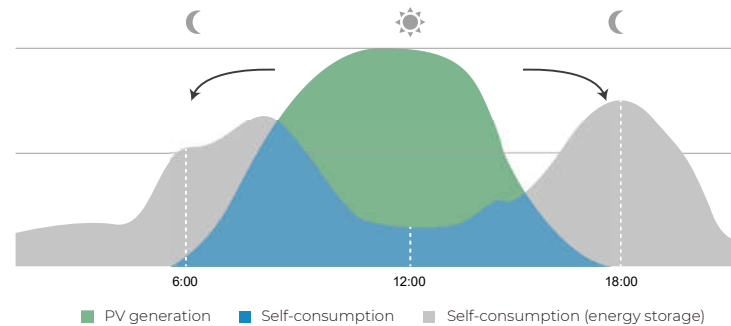
2019
BMS, EMS
developed successfully

2022
Achieved sales of
40,000+ units in 50+ countries
around the world

2021
Achieve sales of 10,000+ units

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) LFP 5.0 / 5.8 / 10.0 kWh / LV

02) LFP 5000 / 2400 / 2500 / 2600HV

03) LFP 2.4-19.2 kWh

04) 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.

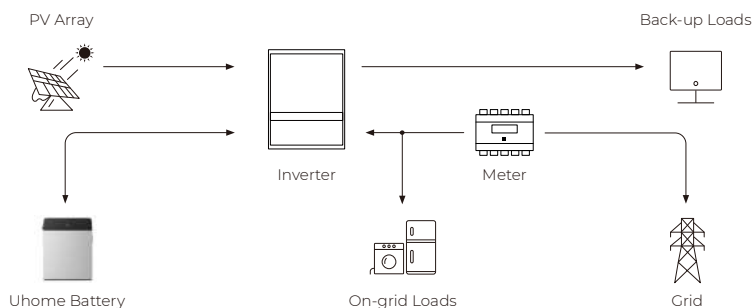


Designs, Manufactures &
Delivers Battery Energy Storage Systems

Uhome

LFP 5.0 / 5.8 / 10.0 kWh / LV

- Reliable LFP cells
- Easy installation & after sales service
- High inverter compatibility
- Digital monitoring system APP
- Intelligent build in BMS
- Safety protection and easy move
- >6,000 cycles at 90% DOD
- Scalable up to 20-40kW(4 Parallel)

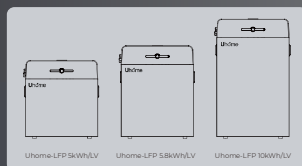


Technical Specifications

| Model | LFP 5kWh/LV | LFP 5.8kWh/LV | LFP 10kWh/LV |
|--|---|---------------|---------------|
| Total Energy* | 5kWh | 5.8kWh | 10kWh |
| Usable Energy(DC)* | 4.6kWh | 5.3kWh | 9.2kWh |
| Nominal Dis-/Charge Power | 3.0kW | 2.75kW | 4.6kW |
| Peak Power(Only Discharge) | 7kW for 3s | 7kW for 3s | 10kW for 3s |
| Constant Current(Only Discharge)(10 Minutes) | 100A | 100A | 120A |
| Voltage | 48~56Vd.c | 42~54Vd.c | 48~56Vd.c |
| Nominal Voltage | 51.2Vd.c | 48Vd.c | 51.2Vd.c |
| Nominal Current | 60A | 57A | 90A |
| Max. Charge Voltage | 57.6Vd.c | 54.0Vd.c | 57.6Vd.c |
| Weight | 55kg | 66kg | 96kg |
| Dimension(mm) | 525*537*238mm | 525*635*238mm | 525*820*238mm |
| Max.recommended DOD | 90% | | |
| Operating Condition | Indoor or outdoor | | |
| Operating Temperature | Charge | From 0~50 C | From 0~45 C |
| | Discharge | From -10~55 C | From -10~55 C |
| WIFI Frequency Range | 2400MHz~2483MHz | | |
| Humidity | 4~100%(No condensed water) | | |
| Pollution Degree | 3 | | |
| Over Voltage Category | II | | |
| Cooling Type | Natural cooling | | |
| Case Material | Metal + Plastic | | |
| Color | Black+Silver grey or White | | |
| Installation | Free standing | | |
| IP rating | IP 65 | | |
| Protective Class | I | | |
| Max. Number of Parallel | 4 | | |
| Warranty | 10 years | | |
| Life Span | >15 years | | |
| Communication | CAN/ RS485 | | |
| Protection Mode | Triple hardware protection | | |
| Battery Protection | Over-current/Over-voltage/Short circuit/ Under-voltage/Over temperature | | |
| Safety | Cell UL 1973 | Cell UL 1973 | Cell UL 1973 |
| | CE | Pack TUV/CE | CE |
| Hazardous Material Classification | 9 | | |
| Transportation | UN 38.3 | | |

Testing conditions based on temperature 25°C at the beginning of life.
*Total Energy/Usable Energy measured under specific conditions from Uhome 0.2C CC-CV

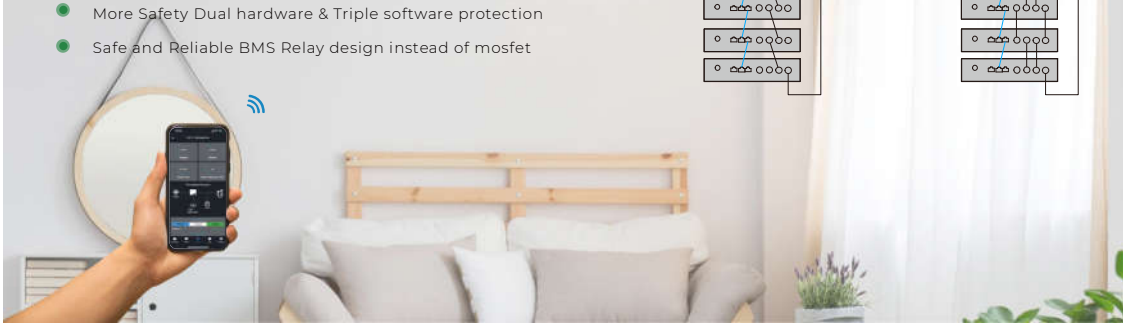
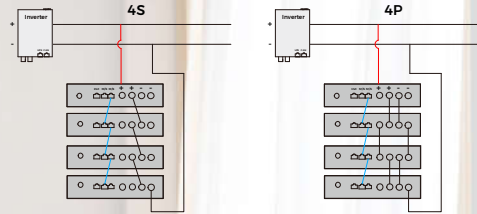
ENERGY STORAGE BATTERY



Residential BESS

LFP 5000 / 2400 / 2500 / 2600HV

- 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



- 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



LFP 2600/HV



LFP 2500



LFP 2400



LFP 5000

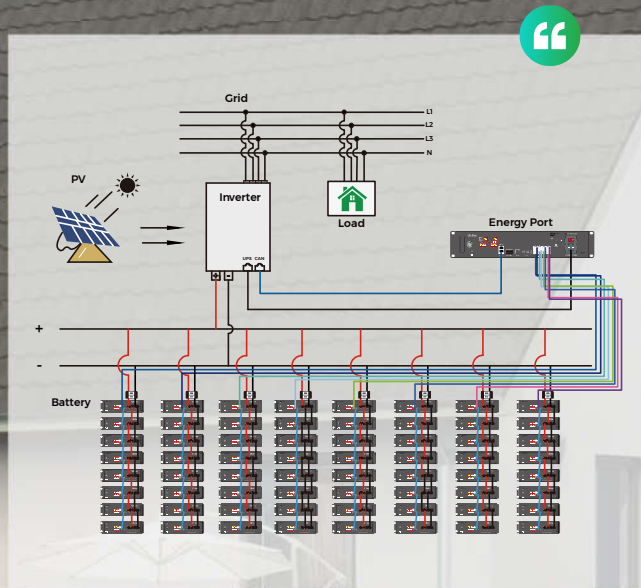
Technical Specifications

| Model | LFP 5000 | LFP 2400 | LFP 2500 | LFP 2600/HV |
|-----------------------------------|---|---------------|--------------|--------------|
| 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 | 25kg | 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 C | | |
| | Discharge | From -10~55 C | | |
| 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°C at the beginning of life.
*Total Energy/Usable Energy measured under specific conditions from Uhome 0.2C CC-CV

Residential Energy Storage Solutions

Our Energy, Our Environment, Our Future



8 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. Customers need to manually operate the battery.

2 Remote Monitoring

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

3 Accurate Acquisition of Battery's Information

It ensures precise acquisition of current and voltage.

4 Balancing Between the Batteries

Automatic balancing of the difference between battery pack

5 SOC Dynamic Calibration

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

6 Series and Parallel Supported

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

7 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.

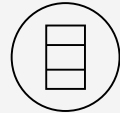
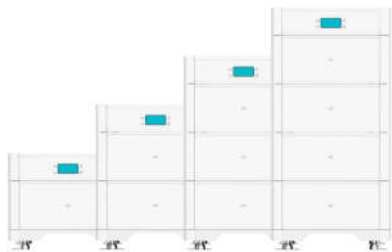
8 Triple Electrical Safety Protection

User's safety will be effectively guaranteed.

LFP 2.4-19.2 kWh



LFP 4.8-19.2 kWh



LiFePO4 Safe Battery Chemistry



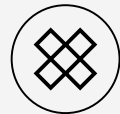
>6,000 Cycles at 90% DOD



Easy Installation & After Sales Service



Intelligent Build in BMS



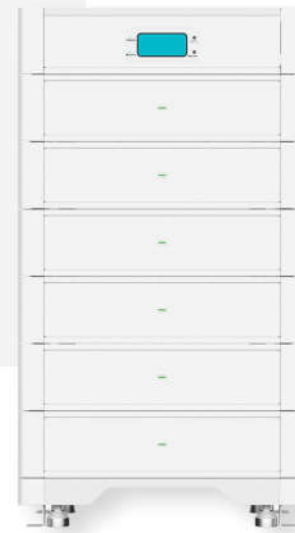
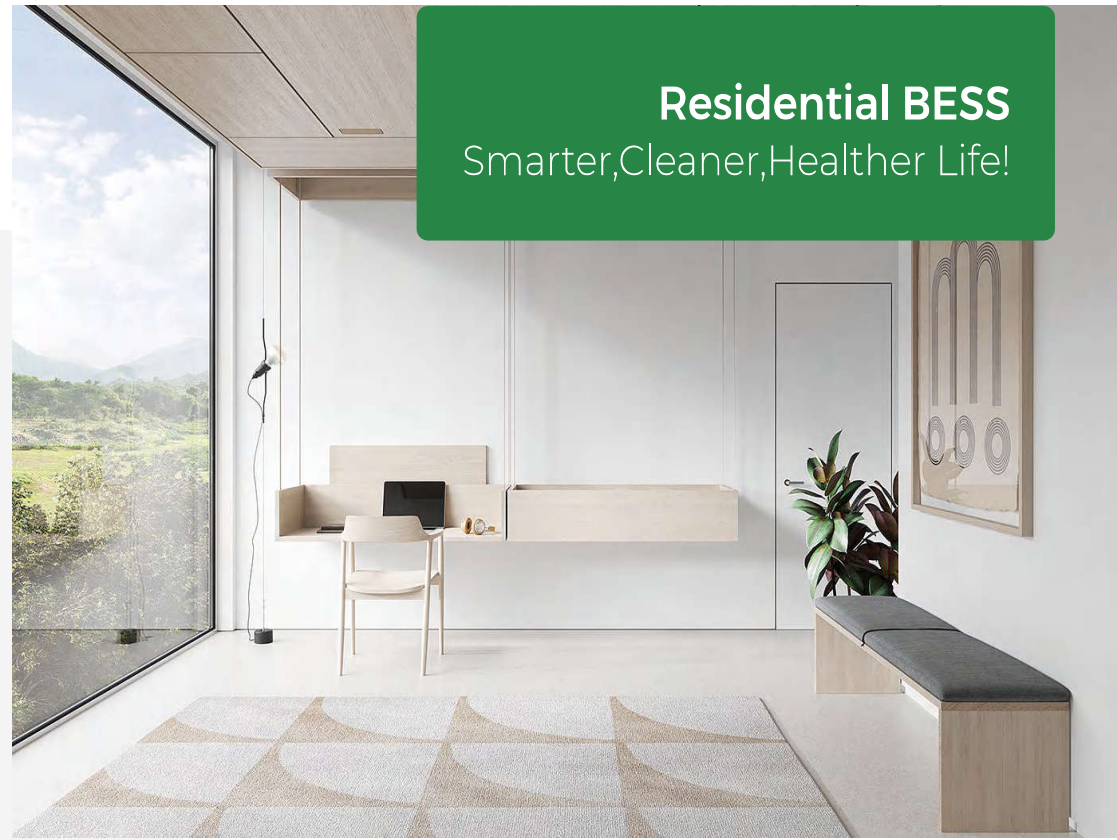
Wall Mounted & Parallel Connection



Safety Protection and Easy Move

Residential BESS

Smarter, Cleaner, Healthier Life!



1

Module Design, Easy to Transport, Install and Maintain









2

Remote Control System via APP and Transfer Data

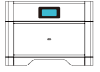
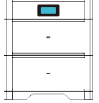

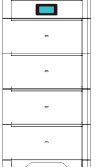
3

Available with Inverter

Technical Specifications

| | | | | | | | | |
|--|---|---|---|---|---|---|---|--|
| Energy Pod |  |  |  |  |  |  |  |  |
| Nominal Capacity | 2.4kWh | 4.8kWh | 7.2kWh | 9.6kWh | 12kWh | 14.4kWh | 16.8kWh | 19.2kWh |
| Size (L × W ×H) (mm) | 650 x300x439 | 650x300x600 | 650x300x770 | 650x300x940 | 650x300x1110 | 650x300x1280 | 650x300x1450 | 650x300x1620 |
| Weight | 46kg | 74.5kg | 103kg | 131.5kg | 160kg | 188.5kg | 217kg | 245.5kg |
| Maximum Usable Capacity | 2.16kWh | 4.32kWh | 6.48kWh | 8.64kWh | 10.80kWh | 12.96kWh | 15.12kWh | 17.28kWh |
| Rated Discharge/ Charge Current | 30A | 60A | 90A | 120A | 150A | 180A | 200A | 200A |
| Nominal Dis-/ Charge Power | 1.4kW | 2.8kW | 4.2kW | 5.6kW | 7.0kW | 8.4kW | 9.2kW | 9.2kW |
| Peak Power(Only Discharge) | 2.4kW for 3s | 4.8kW for 3s | 7.2kW for 3s | 9.6kW for 3s | 12.0kW for 3s | 14.4kW for 3s | 16.0kW for 3s | 16.0kW for 3s |
| Series Power(Only Discharge) | 2.4kW for 3s | 4.8kW for 3s | 7.2kW for 3s | 9.6kW for 3s | 12.0kW for 3s | 14.4kW for 3s | 16.8kW for 3s | 19.2kW for 3s |
| Nominal Battery Operating Voltage (In series) | 45-52.5Vd.c | 90-105Vd.c | 135-157.5Vd.c | 180-210Vd.c | 225-262.5Vd.c | 270-315Vd.c | 315-367.5Vd.c | 360-420Vd.c |
| Voltage(In parallel) | 45-52.5Vd.c | | | | | | | |
| Nominal Battery Operating Voltage (In parallel) | 48V | | | | | | | |
| Max. Battery Voltage | 54V | | | | | | | |
| Max.recommended DOD | 90% | | | | | | | |
| Operating Condition | Indoor or outdoor | | | | | | | |
| Discharge Temperature | From -10-55 C | | | | | | | |
| Charge Temperature | From 0-50 C | | | | | | | |
| WiFi Frequency Range | 2400MHz-2483MHz | | | | | | | |
| Humidity | <95%(No condensed water) | | | | | | | |
| IP rating | IP 65 | | | | | | | |
| Cooling Type | Natural cooling | | | | | | | |
| Case Material | Aluminium alloy | | | | | | | |
| Efficiency | ≥96% | | | | | | | |
| Protective Class | I | | | | | | | |
| Max. Number of Series or Parallel | 8S/8P | | | | | | | |
| Warranty | 10 years | | | | | | | |
| Life Span | >15 years | | | | | | | |
| Communication | CAN/ RS485 | | | | | | | |
| Battery Protection | Over-current/Over-voltage/Short circuit/ Under-voltage/Over temperature/Low temperature | | | | | | | |
| Hazardous Material Classification | 9 | | | | | | | |
| Certification & Safety Standard | CE/UL 1973/IEC 62619/IEC62477/IEC 62040/MSDS/UN 38.3 | | | | | | | |

Technical Specifications

| | | | | |
|---|---|---|---|---|
| Energy Pod |  |  |  |  |
| Nominal Capacity | 4.8kWh | 9.6kWh | 14.4kWh | 19.2kWh |
| Size (L × W ×H)(mm) | 650x300x523 | 650x300x786 | 650x300x1049 | 650x300x1312 |
| Weight | 60.5kg | 103.5kg | 146.5kg | 189.5kg |
| Maximum Usable Capacity | 4.32kWh | 8.64kWh | 12.96kWh | 17.28kWh |
| Rated Discharge/ Charge Current | 60A | 120A | 180A | 200A |
| Nominal Dis-/Charge Power | 2.8kW | 5.6kW | 8.4kW | 9.6kW |
| Parallel Peak Power(Only Discharge) | 4.8kW for 3s | 9.6kW for 3s | 14.4kW for 3s | 16.0kW for 3s |
| Series Peak Power(Only Discharge) | 4.8kW for 3s | 9.6kW for 3s | 14.4kW for 3s | 16.0kW for 3s |
| Nominal Battery Operating Voltage (In Series) | 45-52.5Vd.c | 90-105Vd.c | 135-175.5Vd.c | 180-210Vd.c |
| Voltage(In parallel) | 45-52.5Vd.c | | | |
| Nominal Battery Operating Voltage(In parallel) | 48V | | | |
| Max. Battery Voltage | 54V | | | |
| Max.recommended DOD | 90% | | | |
| Operating Condition | Indoor or outdoor | | | |
| Discharge Temperature | From -10-55 C | | | |
| Charge Temperature | From 0-50 C | | | |
| WiFi Frequency Range | 2400MHz-2483MHz | | | |
| Humidity | <95%(No condensed water) | | | |
| IP rating | IP 65 | | | |
| Cooling Type | Natural cooling | | | |
| Case Material | Aluminium alloy | | | |
| Efficiency | ≥96% | | | |
| Protective Class | I | | | |
| Max. Number of Series or Parallel | 8S/8P | | | |
| Warranty | 10 years | | | |
| Life Span | >15 years | | | |
| Communication | CAN/ RS485 | | | |
| Battery Protection | Over-current/Over-voltage/Short circuit/ Under-voltage/Over temperature/Low temperature | | | |
| Hazardous Material Classification | 9 | | | |
| Certification | CE/UL 1973/IEC 62619/IEC62477/IEC 62040/MSDS/UN 38.3 | | | |

To discuss your project,
get expert support and advice,
get in touch with our friendly team



Technical Specifications

| Model | Uhome 4K6HB-60 | Uhome 4K6HB-120 | Uhome 5KHB-60 | Uhome 5KHB-120 | Uhome 6KHB-60 | Uhome 6KHB-120 |
|---|--|-----------------|---------------|----------------|---------------|----------------|
| Max. efficiency (PV to AC) | 97.3% | | | | | |
| Max. efficiency (BAT to AC) | 94.0% | | | | | |
| MAX PV Power (W) | 9000 | | | | | |
| Max PV voltage (V) | 550 | | | | | |
| Max input current (input A/input B) (A) | 15/15 | | | | | |
| Max short current (input A/input B) (A) | 20/20 | | | | | |
| Start operating voltage (V) | 90 | | | | | |
| MPPT voltage range @full load (V) | 200-480 | | | 230-480 | | |
| No. of MPPT trackers | 2 | | | | | |
| String per MPP tracker | 1 | | | | | |
| Compatible battery type | Lithium-ion/Lead-acid | | | | | |
| Nominal battery voltage (V) | 48 | | | | | |
| Battery voltage range (V) | 40-60 | | | | | |
| Max. charge/discharge current (A) | 60/60 | 120/120 | 60/60 | 120/120 | 60/60 | 120/120 |
| Max. charge/discharge power (W) | 3000/3000 | 5000/5000 | 3000/3000 | 5000/5000 | 3000/3000 | 6000/6000 |
| Lithium battery charge curve | Self-adaption to BMS | | | | | |
| Nominal AC output power (W) | 4600 | 4600 | 5000 | 5000 | 6000 | 6000 |
| Max. AC output apparent power (VA) | 4600 | 4600 | 5500 | 5500 | 6000 | 6000 |
| Max. AC output power (PF=1) (W) | 4600 | 4600 | 5500 | 5500 | 6000 | 6000 |
| Max. AC output current (A) | 22 | 22 | 25 | 25 | 27.2 | 27.2 |
| Rated AC voltage (V) | 220 | | | | | |
| AC voltage range (V) | 150-300 (adjustable) | | | | | |
| Rated grid frequency (Hz) | 50/60 | | | | | |
| AC frequency range (Hz) | 45-55/55-65 (adjustable) | | | | | |
| Grid connection | single phase | | | | | |
| Power factor | > 0.99 @rated power (adjustable 0.8 LG - 0.8 LD) | | | | | |
| THDI | <3% | | | | | |
| Nominal output voltage (V) | 230 | | | | | |
| Nominal output frequency (Hz) | 50/60 | | | | | |
| Nominal output power (W) | 3000 | 4600 | 3000 | 5000 | 3000 | 6000 |
| Nominal output current (A) | 13 | 20 | 13 | 21.7 | 13 | 26 |
| Transfer time (ms) | 10(typ) / 20(max) | | | | | |
| THDV | <3% @100% R Load | | | | | |
| Protection category | Class I | | | | | |
| DC switch | Support | | | | | |
| Anti-islanding protection | Support | | | | | |
| AC overcurrent protection | Support | | | | | |
| AC short circuit protection | Support | | | | | |
| DC reverse connection | Support | | | | | |
| Surge Arrester | DC Type III, AC Type III | | | | | |
| Insulation detection | Support | | | | | |
| Leakage current protection | Support | | | | | |
| PV overvoltage category | II | | | | | |
| AC overvoltage category | III | | | | | |
| Max. operation altitude (m) | 4000 | | | | | |
| Noise emission (dB) | <35 | | | | | |
| Ingress protection degree | IP65 | | | | | |
| Operating temperature range (°C) | -25~60 | | | | | |
| Relative humidity (%) | 0~100 | | | | | |
| Cooling concept | Natural Cooling | | | | | |
| Mounting | Wall bracket | | | | | |
| Dimensions (W*H*D) | 515*450*175mm | | | | | |
| Weight (kg) | 20 | 25 | 20 | 25 | 20 | 25 |
| PV connection way | MC4/H4 | | | | | |
| Battery connection way | Dedicated DC connector | | | | | |
| AC connection way (grid & back up) | Dedicated AC connector | | | | | |
| Display | LED+APP | | | | | |
| Communication interface | RS485/CAN(for BMS), RS485, USB, Ethernet, DRM/RS485 (for Meter), Optional: WiFi/GPRS | | | | | |
| Grid | VDE-AR-N4105, IEC 61727/62116, AS 4777.2, EN 50549-1 | | | | | |
| Safety | IEC62109-1&2, IEC62040-1, IEC62477-1 | | | | | |
| EMC | IEC61000-6-2/3 | | | | | |
| Warranty (years) | 5/10 (optional) | | | | | |

The range of output voltage and frequency may vary depending upon different grid codes.
Specifications are subject to change without advance notice.

Delivering Smart, Clean Energy!

Uhome



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 Uhome 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 Uhome energy storage products within 24 hours.



Certification & Honor



Global Delivery

