Uhome Smart Energy(Wuxi)Co.,Ltd.

WeChat/WhatsApp: +86-18961822899

Email: sales@uhomeenergy.com

Address: No.1 Qianluo Rd, Huishan District, Wuxi City

Information might be subject to change without notice

File version-20241204-V2-EN

Uhome Smart Energy

ENERGY STORAGE SOLUTIONS

OUR ENVIRONMENT, OUR ENERGY, OUR FUTURE

www.uhomeenergy.com

Who we are

10 Years
10 Years Warranty

100+
Technology Patents

70+
Countries
Business Areas

80000+
PCS
Shipped Quantity

10%
Continuous R&Dinvestment

50+
Engineers

26000
Factory Area Square Meters

2.0GWh
Production Line Capacity

About Us

Uhome is a leading energy storage solutions provider. The Company has established a comprehensive product portfolio for a wide range of applications including residential and small commercial & industrial (C&I) by leveraging its proprietary technology and robust R&D capabilities. Uhome has extensive expertise in battery management system (BMS), energy management system(EMS), system integration and remote monitoring.

With its headquarter in Wuxi China, Uhome has provided safe, reliable, and high-quality products and services to users over 70 countries and regions. Its products have obtained UL, IEC, CEC and other international certifications. At Uhome, customer satisfaction is always our top priority. Uhome is committed to build a low-carbon environment, promote efficient use of renewable energy and make a better future.

2018
Established Uhome
Smart Energy R&D Team

2019
Developed BMS, EMS
and APP

2020
1st generation
ESS products launched

2021
Achieved sales of 10,000+ units

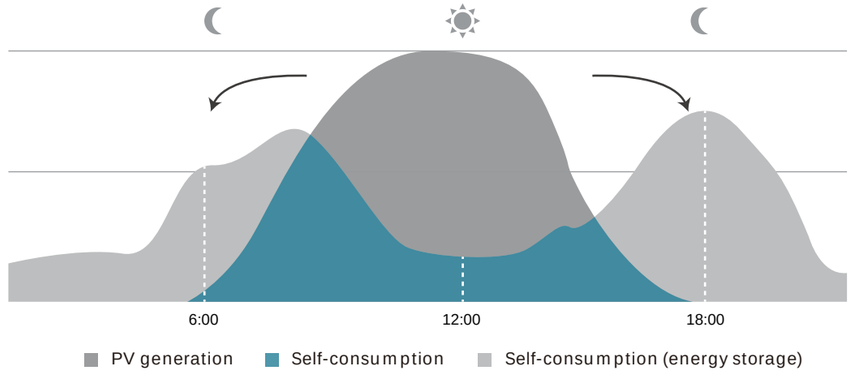
2022
Achieved sales of
40,000+ units in 50+ countries
around the world

2023
Independently developed inverter
with sales exceeding 60,000+ units

2024
Products sold across 70
countries and regions

Residential Energy Storage Solution

Residential ESS stores energy generated by solar or from the grid. You can use this energy to power your home day andight, during outages or when you want to go off-grid, and tooptimize your energy use for electricity bill saving and more.



Strengths

More Usable Energy
Cell and Pack level balancing
Up to 93% DOD

Scalability and Flexibility
Module design,
Fexible expansion, up to 128pcs

Safe & Reliable
Pioneer in solid-state battery ESS
Top-tier cells

Easy and flexible installation
Rack-mounted, wall-mounted,
stackable, ground

Intelligent Monitoring
Monitor, control and optimize
anytime anywhere

Wide Compatibility
Compatible with wide
range of inverters

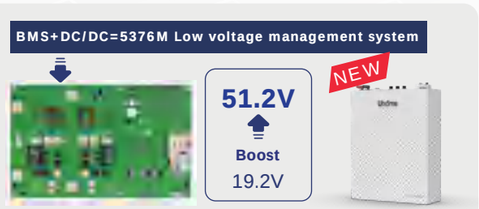
10 CORE ADVANTAGES

1 Voltage Balancing Between the Batteries

Automatic balancing voltage difference between battery packs.Voltage balance can be achieved in series or parallel.

2 Battery boost technology: boost from 19.2V to 51.2V

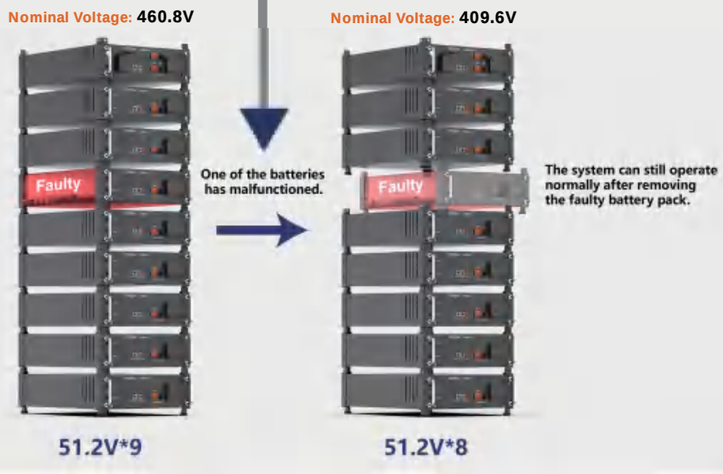
Can reduce battery energy consumption, improve charging efficiency, achieve fast charging and recovery of braking energy, etc.



In addition, the boost technology can also extend battery life and expand the application range of the battery.

3 Bypass Module technology

By adding a bypass module,removing or replacing a faulty battery in any pack will not affect the overall operation of the system.

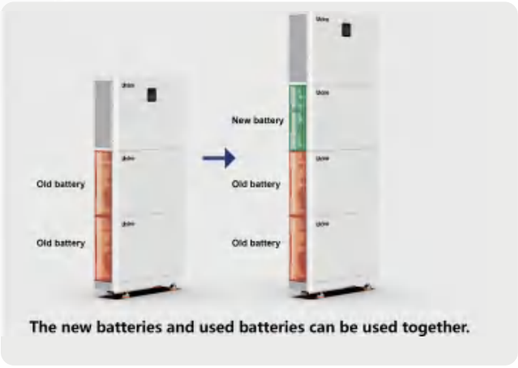


5 SOC Dynamic Calibration

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

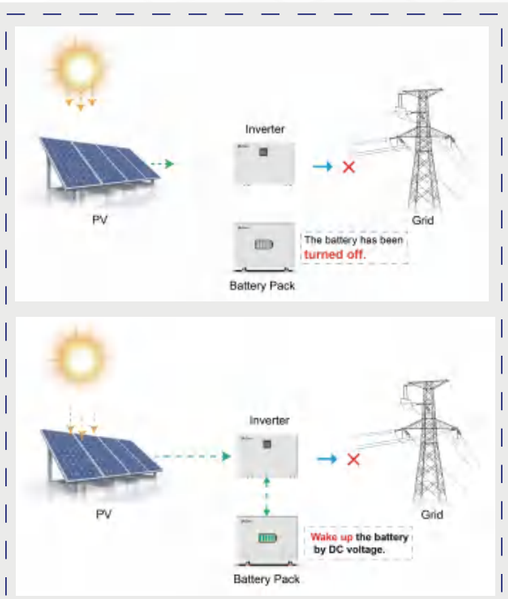
4 Parallel Strategy(The new batteries and used batteries can be used together)

With our products, after adding a new battery of the same type to the original system, it can be used normally. Uhome's BMS has designed a parallel strategy to prevent large current shocks caused by paralleling. Reduce installation worker wait, operation time and improve operational safety.



6 On/off Management Including Automatic Wake-up Function

The battery is likely to run out of power and be in dormant due to the complex operating conditions under the off-grid system. Our technology can automatically wake up the battery into operation.



10 CORE ADVANTAGES

7 Remote Monitoring

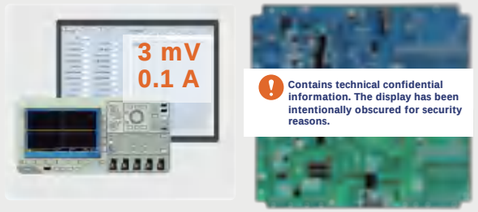
Our products support both Web-side and App-side data monitoring.

By leveraging AI-powered optimization algorithms and synchronizing real-time data from grid operators, the system automatically adjusts inverter settings to maximize customer benefits and deliver greater cost savings on electricity bills.

8 Accurate Acquisition of Battery's Information

Accurate acquisition and precise control, free from the EMC interference of the inverter.voltage monitoring can be accurate to within 3 mV, and current can be accurate to within 0.1 A, making SOC more precise.

Far Ahead of The Tndustry



9 Series and Parallel Connection

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

Series Connection | Parallel Connection

World's only Industry-first Technology

Strong compatibility:
Applicable to 95% of inverter brands on the market
Multiple application scenarios:
Suitable for both household and commercial use

10 Multiple Electrical Safety Protection

More product safety, more product protection

PRODUCTS PORTFOLIO

OUR ENVIRONMENT, OUR ENERGY, OUR FUTURE

A.Power Station

1) LFP 5000B
2) LFP 5000S
3) LFP 5376M/6028M
4) LFP 5000LM/5000S HV/5000HV/TS-L5000/LV
5) 5000C
6) 5120M/10240M
7) LFP 14336/16076

B.Residential Energy Storage System

1) Three phase 5-12kW All-in-one LFP 10.86-16.29 kWh
2) Single phase 3.6-5.0kW All-in-one LFP 5.1-10.2kWh
3) All-in-one Balcony ESS
4) All-in-one Split Phase ESS

C.Commercial and Industrial

1) CIESS 60kWh/120kWh

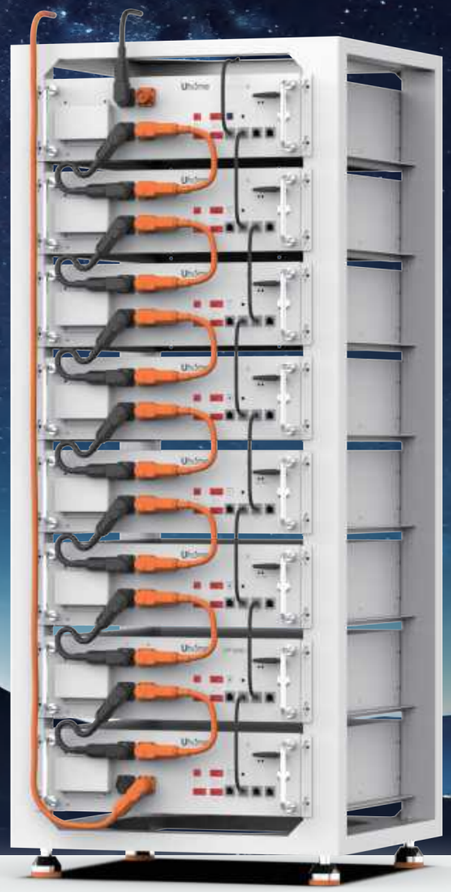
Designs, Manufactures &
Delivers Battery Energy Storage Systems

Uhome

Energy Storage System
Rack Mounted Series

LFP 5000B

Series Connection（MAX 16S）



Parallel Connection（MAX 16P）

FEATURES

>6000
Cycle Life@25°C

Automatic Wake-up
Under off-grid System Environment

Smart BMS
Intelligent management& maintenance of battery systems

Remote Monitoring
Real time monitoring of electricity usage and equipment operation

Multiple Safety Protection
Relay, DC Breaker

New&Old Batteries can be used together
Connect in Parallel

Parallel& Series
Adapting to series or parallel up to 16 pcs

Voltage Balancing
Voltage balancing between battery cells&battery pack

Technical Specifications

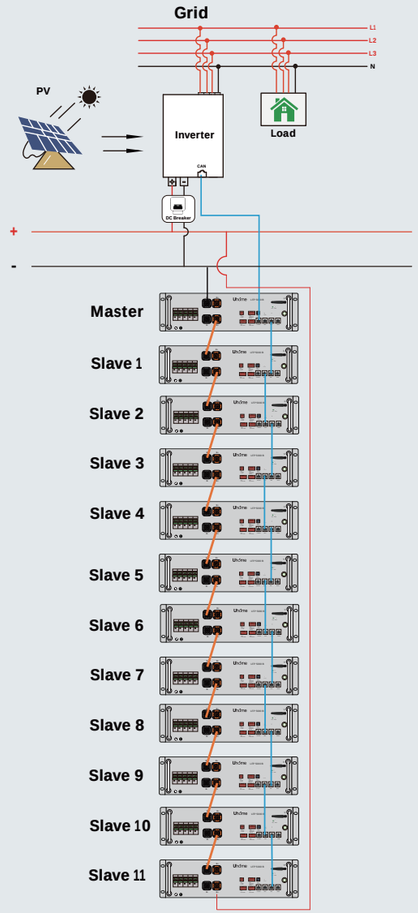
Model		LFP 5000B
Total Energy*		5.1kWh
Usable Energy(DC)*		4.6kWh
Nominal Dis-/Charge Power		3.0kW
Peak Power(Only Discharge)		6kW for 3s
Voltage		48~56Vd.c
Nominal Voltage		51.2Vd.c
Peak Discharging Current		200A/10s
Nominal Current		60A
Max. Charge Voltage		57.6Vd.c
Weight		45kg
Dimension（L*W*H)		500*442*133mm
Max.Recommended DOD		90%
Operating Condition		Indoor
Operating Temperature	Charge	From 0~50℃
	Discharge	From -10~55℃
WIFI Frequency Range		2.4GHz
Recommended 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		16P/16S
Warranty		10 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
		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**

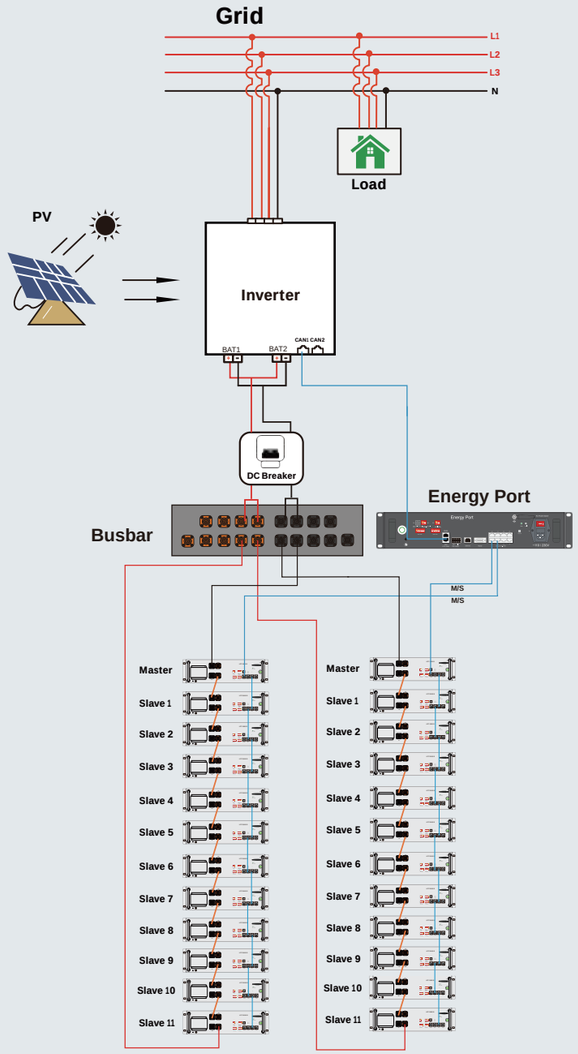
Typical Application Case

Reference Scheme	Compatible inverter brands
1P12S	**DEYE\SOLINTEG\SOLIS\LuxPower\Afore\Growatt\ Goodwe\Thinkpower\Sol-Ark\Hoymlies\AISWEI,etc.**
2P12S	**NOTE:** The above are only examples of compatible inverters.
3P12S	

Scheme 1: 1P12S

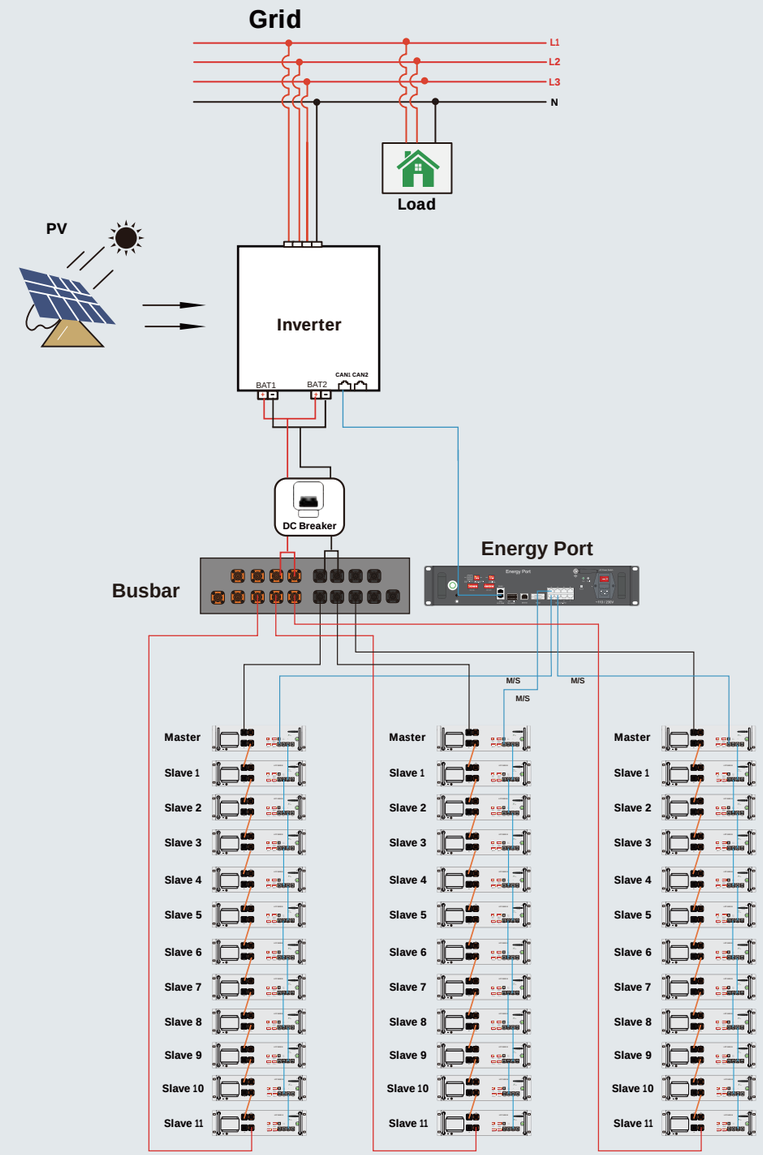


Scheme 2: 2P12S



Typical Application Case

Scheme 3: 3P12S



Automatic balancing

Lithium-ion Battery ESS

LFP 5000 SM&5000S

Interference Free Bypass Module

Removing or replacing a faulty battery in any cluster will not affect the overall operation of the system.

6000
Cycle Life@25°C

Smart BMS
Intelligent management &maintenance of battery systems

100Ah
single battery

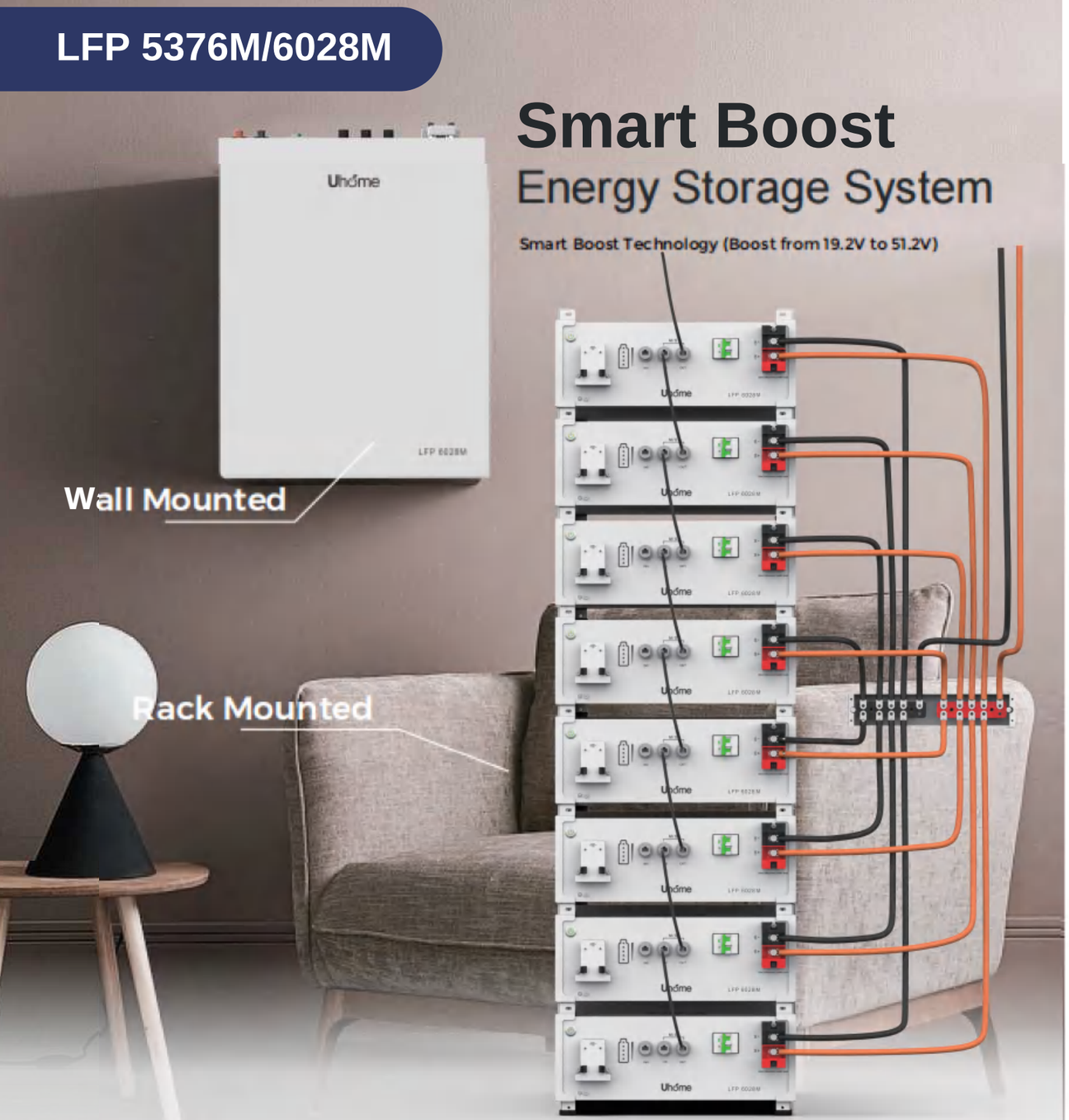
13S
Series Connection

Low after-sales costs
System more Stable & Reliable

Technical Specifications

Model	LFP 5000 SM	LFP 5000 S
Total Energy*	5.12kWh	
Battery Capacity	100Ah	
Max.recommended DOD	93%	
Peak Power	6kW/3s	
Voltage Range	48-56Vd.c	
Nominal Voltage	51.2Vd.c	
Nominal Dis/charging Current	80A	
Max. Charge Voltage	56Vd.c	
Weight	46kg	43kg
Dimension(L*W*H)	600*442*135 mm	
Operating Condition	Indoor	
Operating Temperature	-20~55℃	
WIFI Frequency Range	2.4GHz	
Recommended Humidity	<60%(No condensed water)	
Cooling Type	Natural cooling	
Installation	Ground /Rack/Wall mounted	
IP rating	IP20	
Protective Class	I	
Max. Connection Number	13S	
Communication	CAN/ RS485	
Protection Mode	Hardware&software protection	
Battery Protection	Over-current/Over-voltage/Short circuit/ Under-voltage/Over temperature	
Safety	Cell UL TUV	
	CE/TUV	
Hazardous Material Classification	9	
Transportation	UN 38.3	
Product Warranty	10 years warranty 1)For better battery life cycles,we suggest charge in 50A(0.5C @25°C) 2)For better battery life cycles,we suggest discharge in 50A(0.5C @25°C) 3)Peak Current excludes repeated short duration (less than 100ms) of current pattern.	

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.



Technical Specifications

Model		LFP 5376M	LFP 6028M
Total Energy*		5.37kWh	6.028kWh
Usable Energy(DC)*		5.0kWh	5.43kWh
Nominal Discharge/Charge Power		3.0kW	
Peak Power(Only Discharge)		5kW for 3s	
Nonimal Current		60A	
Peak Discharging Current		150A/2s	
Operator Voltage Range		44.8~57.6V	
Nonimal Voltage		51.2Vd.c (Boost 19.2 V to 51.2 V)	48Vd.c (Boost 19.2 V to 48 V)
Weight		46kg	47.5kg
Dimension(L*W*H)		580*443*135mm	
Max.recommended DOD		90%	
Operating Temperature	Charge	From 0~50℃	
	Discharge	From -10-55℃	
WIFI Frequency Range		2.4GHz	
Recomended Humidity		＜60%	
Cooling Type		Natural cooling	
Case Material		Metal	
Color		Black or White	
Installation		Wall mounting/Ground Installation	
Opertation Condition		Indoor&Outdoor	
IP Rating		IP 54	
Protective Class		I	
Max. Connection Number		16P	
Warranty		10 years	
Communication		CAN/RS485	
Protection Mode		Dual hardware protection	
Battery Protection		Over-current/Over-voltage/Short circuit/Under-volltage/Over temperature	
Safety		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.**

Energy Storage System
Rack Mounted Series

LFP 5000LM/TS-L5000/LV/5000HV/5000SHV

LFP 5000LM 3U/ 586*442*133mm

TS-L5000/LV 3U/ 500*448*135mm

LFP 5000S HV 3U/ 500*442*133mm

LFP 5000 HV 3U/500*442*133mm

FEATURES

>6000
Cycle Life@25°C

Automatic Wake-up
Under off-grid System Environment

Smart BMS
Intelligent management &maintenance of battery systems

Remote Monitoring
Real time monitoring of electricity usage and equipment operation

Multiple Safety Protection
Relay, Fuse, DC Breaker

New&Old Batteries can be used in together
Connect in Parallel

Parallel& Series
Adapting to series or parallel connection

Voltage Balancing
Voltage Balancing between Battery Cells&Battery Pack

Technical Specifications




Model		LFP 5000LM	TS-L5000/LV	LFP 5000 HV	LFP 5000S HV
Total Energy*		5.1kWh	4.8kWh	5.1kWh	5.4kWh
Usable Energy(DC)*		4.6kWh	4.3kWh	4.6kWh	4.6kWh
Nominal Dis-/Charge Power		3.0kW	2.88kW	2.0kW	2.0kW
Peak Power(Only Discharge)		6kW for 3s	6kW for 3s	6kW for 3s	6kW for 3s
Constant Current(Only Discharge)		80A	100A	50A	50A
Voltage		44.8~57.6Vd.c	45~52Vd.c	96~112Vd.c	96~112Vd.c
Nominal Voltage		51.2Vd.c	48Vd.c	102.4Vd.c	102.4Vd.c
Nominal Current		60A	60A	50A	50A
Peak Discharging Current		100A/3s		200A/10s	
Max. Charge Voltage		57.6Vd.c	57.6Vd.c	115.2Vd.c	115.2Vd.c
Weight		47kg	42kg	43kg	43kg
Dimension(L*W*H)		586*442*133mm	500*448*135mm	500*442*133mm	500*442*133mm
Max Recommended DOD		90%			
Operating Condition		Indoor			
Operating Temperature	Charge	From 0~50℃			
	Discharge	From -10~55℃			
WIFI Frequency Range		2.4GHz			
Recommended Humidity		＜60%(No Condensed Water)			
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		16P	16P	4S	6S
Warranty		10 years			
Communication		CAN/ RS485			
Protection Mode		Triple Safety Protection			
Battery Protection		Over-current/Over-voltage/Short circuit/ Under-voltage/Over temperature			
Safety		Cell UL 1973		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**

Wiring Diagram for Reference

LFP 5000

Parallel Connection (MAX 8P)

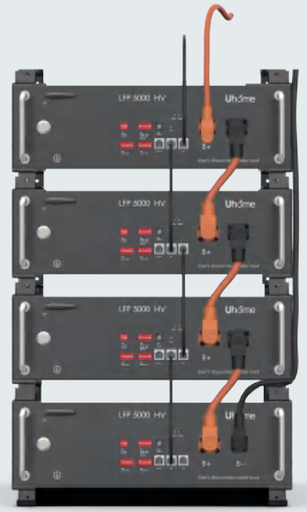
Series Connection (MAX 8S)

LFP 5000S HV

Series Connection (MAX 6S)

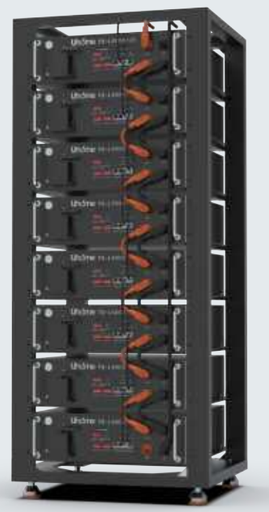
Wiring Diagram for Reference

LFP 5000 HV



Series Connection (MAX 4S)

TS-L5000/LV



Parallel Connection (MAX 16P)

First Solid-State
Battery ESS

5000C

Parallel Connection(MAX 16P)

Series Connection(MAX 12S)

- Higher Safety
- Faster Dis/Charging Speed
- Wide Inverter Compatibility
- Intelligent Built-in BMS
- Versatile Installation

6000 Cycle Life@25°C

Solid-State Battery Cells

53Ah single battery

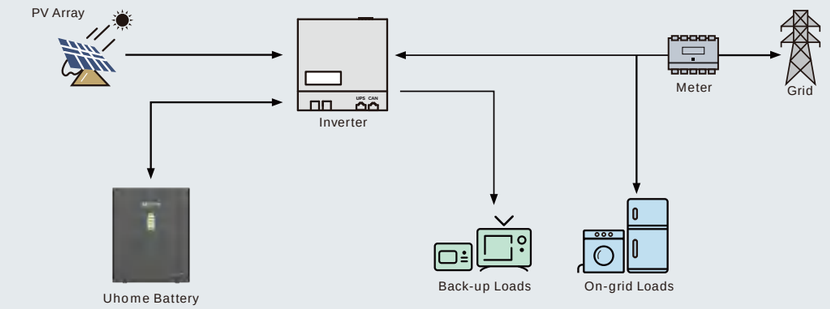
1C Discharging Rate

Increase 8% Energy Density

Technical Specifications

Model		5000C
Total Energy*		5.4kWh
Battery Capacity		53Ah*2
Max.recommended DOD		93%
Voltage Range		48-56Vd.c
Nominal Voltage		51.2Vd.c
Peak Power		6kW/3s
Nominal Dis/charging Current		100A/100A
Max. Charge Voltage		56Vd.c
Weight		46kg
Dimension(L*W*H)		500*442*133mm
Operating Condition		Indoor
Operating Temperature	Charging	0~55℃
	Disharging	-20~55℃
WIFI Frequency Range		2.4GHz
Recommended Humidity		<60%(No condensed water)
Cooling Type		Natural cooling
Installation		Ground /Rack/Wall mounted
IP rating		IP20
Protective Class		I
Max. Connection Number		12S16P
Communication		CAN/ RS485
Protection Mode		Hardware&software protection
Battery Protection		Over-current/Over-voltage/Short circuit/ Under-voltage/Over temperature
Safety		Cell UL TUV
		CE/TUV
Hazardous Material Classification		9
Transportation		UN 38.3
Product Warranty		10 years warranty 1)For better battery life cycles,we suggest charge in 50A(0.5C @25°C) 2)For better battery life cycles,we suggest discharge in 50A(0.5C @25°C) 3)Peak Current excludes repeated short duration (less than 100ms) of current pattern.

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.



Model		5120M	10240M
Technical Specifications			
Total Energy*		**5.1kWh**	**10.2kWh**
Usable Energy(DC)*		4.6kWh	9.4kWh
Max Charge Power		5.12kW	10.2kW
Max Discharge Power		7.68kW	10.2kW
Peak Power(Only Discharge)		8kW for 3s	8kW for 3s
Voltage		48~56Vd.c	
Nominal Voltage		51.2Vd.c	
Max Charge Voltage		57.6Vd.c	
Max Discharge Current		150A	150A
Max Charge Current		100A	120A
Weight		46kg	89kg
Dimension(mm)（L*W*H)		442*165*535mm	442*165*920mm
Max Recommended DOD		93%	
Operating Condition		Indoor	
Operating Temperature	Charge	From 0~50℃	
	Discharge	From -10~55℃	
WIFI Frequency Range		2.4GHz	
Recommended Humidity		＜60%(No condensed water)	
Cooling Type		Natural convection	
Case Material		Metal	
Color		Black or White	
Installation		Wall/Ground/Rack Mounting	
IP Rating		IP 20	
Max Connection Number		16P	
Communication		CAN/ RS485	
Protection Mode		Dual hardware protection	
Battery Protection		Over-current/Over-voltage/Short circuit/ Under-voltage/Over temperature	
Safety		Cell UL 1973/CE	
Hazardous Material Classification		9	
Transportation		UN 38.3	
Product Warranty		10 years warranty 1)For better battery life cycles,we suggest charge in 0.5C @25°C 2)For better battery life cycles,we suggest discharge in 0.5C @25°C	

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.**

PRODUCT FEATURES

>6000
Cycle Life@25°C

Automatic Wake-up
Under off-grid System Environment

Multiple Safety Protection
Relay, Fuse, DC Breaker

New&Old Batteries can be used in together
Connect in Parallel

Smart BMS
Intelligent management & maintenance of battery systems

Remote Monitoring
Real time monitoring of electricity usage and equipment operation

Parallel& Series
Adapting to series or parallel connection

Voltage Balancing
Voltage Balancing between Battery Cells&Battery Pack

Technical Specifications

Model		LFP 14336	LFP 16076
Total Energy*		14.336kWh	16.076kWh
Usable Energy(DC)*		12.9kWh	14.5kWh
Nominal Dis-/Charge Power		10.2kW	
Peak Power(Only Discharge)		10.6kW for 3s	
Voltage		48~56Vd.c	
Nominal Voltage		51.2Vd.c	
Nominal Current		200A	
Max. Charge Voltage		57.6Vd.c	
Weight		119kg	
Dimension(L*W*H)		855*450*235 mm	
Max.Recommended DOD		90%	
Operating Condition		Indoor	
Operating Temperature	Charge	From 0~55℃	
	Discharge	From -10~55℃	
WIFI Frequency Range		2.4GMHz	
Recommended Humidity		＜60%(No condensed water)	
Cooling Type		Natural cooling	
Case Material		Metal	
Color		White	
Installation		Rack mounting/Ground Installation	
IP Rating		IP 20	
Protective Class		I	
Max. Connection Number		16P/12S	
Warranty		10 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	
		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**

5-12kW Single Phase Inverter

AIO-LFP 10.86-16.29 kWh

PV Black Start

Photovoltaic can start in the dark

High conversion efficiency

MPPT efficiency can reach up to 99.9%

Change the CT Current

The direction of the CT current can be modified via the backend/system interface.

Scalability and Flexibility

Support up to 6 pcs inverters in paralle

Versatile configuration

Support parallel connection of three phases

Full power output

Parallel operation enables full power output.

FEATURES

1.6

DC side 1.6 times over matched, MPPT current up to 20A, suitable for high-power components

3

3 MPPT channels greatly increase power generation

2

The maximum output power off grid reaches 2 times per 20ms

100%

Support 100% three-phase unbalanced output

50A

The maximum charging and discharging current of the battery can reach 50A

160-800V

Battery input of inverter 160V-800V

Technical Specifications


Product Model		LFP10.86-16.29kWh	
Total Energy*		10.86kWh	16.29kWh
Battery Capacity		53Ah	
Max.recommended DOD		93%	
Max Dis/Charge Power		12.3kW for 3S	18.4kW for 3S
Voltage		192~224Vd.c	288~336Vd.c
Nominal Voltage		204.8Vd.c	307.2Vd.c
Nominal Dis/charging Current		50A/50A	
Max Charging Current		60A(3s)	
Max Discharging Current		60A(3s)	
Max. Charge Voltage		230.4Vd.c	345.6Vd.c
Weight		90kg	135kg
Dimension(W*H*D)		650*820*180mm	650*1230*180mm
Operation Condition		Indoor&Outdoor(Recommend to use a rain shelter)	
Ambient Temperature	Charge	0~55℃	
	Discharge	-20~55℃	
Operating Ambient Temperature Charge/Discharge		-20~55℃	
WIFI Frequency Range		2.4GHz	
Recommended Humidity		＜60%(No condensed water)	
Over Voltage Category		II	
Cooling Type		Natural cooling	
Installation		Ground Installation	
IP rating		IP65	
Protective Class		I	
Max. Connection Number		3S	
Communication		CAN/ RS485	
Protection Mode		Hardware&software protection	
Battery Protection		Over-current/Over-voltage/Short circuit/ Under-voltage/Over temperature	
Safety		Cell UL TUV	
		CE/TUV	
Hazardous Material		9	
Transportation		UN 38.3	
Warranty		Battery:10 years warranty;inverter: 5 years warranty 1)For better battery life cycles,we suggest charge in 30A(0.6C @25°C) 2)For better battery life cycles,we suggest discharge in 30A(0.6C @25°C) 3)Peak Current excludes repeated short duration (less than 100ms) of current pattern.	

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

Technical Specifications

Product Model	Uhome-HB -3P5KH1	Uhome-HB -3P6KH1	Uhome-HB -3P8KH1	Uhome-HB -3P10KH1	Uhome-HB -3P12KH1
Input Parameters(DC)					
Maximum Input Voltage	1100V				
Maximum MPPT Current	20A				
Maximum MPPT Short-Circuit Current	40A				
Starting Voltage	160V				
MPPT Voltage Range	160~1000V				
Number of MPPT Trackers	3				
Number of Strings for Each MPPT	1				
Battery Parameters(DC)					
Battery Type	Li-Ion/Lead-acid				
Battery Voltage Range	160-800V				
Maximum Charing/Discharing Current	50A				
Battery Communication	CAN/RS485				
Output Parameters(AC)					
Rated output power	5000W	6000W	8000W	10000W	12000W
Maximum Apparent Power	5500VA	6600VA	8800VA	11000VA	13200VA
Rated Voltage	3/N/PE,380/400v				
Rated Grid Frequency	50Hz/60Hz				
Maximum Output Current	8.3A	10A	13.3A	16.7A	20A
Power factor	0.8 leading...0.8laging				
Total Current Harmonic Distortion Rate	＜3%(Rated Power)				
Off-grid Parameters(AC)					
Rated output power	5000W	6000W	8000W	10000W	12000W
Maximum Apparent Power	5500VA	6600VA	8800VA	11000VA	13200VA
Rated Voltage	3/N/PE,380/400v				
Rated Grid Frequency	50Hz/60Hz				
Peak Power	10000W for 60s	12000W for 60s	16000W for 60s	20000W for 60s	20000W for 60s
Maximum Output Current	8.3A	10A	13.3A	16.7A	20A
THDv	＜2%(Rated Power)				
Frequency					
Maximum Frequency	>98.2%	>98.2%	>98.2%	>98.4%	>98.4%
European Frequency	>97.6%	>97.6%	>97.6%	>97.8%	>97.8%
Charing/Discharging Frequency	>97.6%	>97.6%	>97.6%	>97.8%	>97.8%
Safety and Protection					
DC Switch	Yes				
Isolated Island Protection	Yes				
Overcurrent Protection	Yes				
PV/Battery Reverse Connection Protection	Yes				
DC Surge Protection	II				
AC Surge Protection	II				
Insulation Resistance Testing	Yes				

Technical Specifications

Display and Communication	
Display	LCD
RS485	Yes
CAN	Yes
WiFi/4G/LAN	Yes
Bluetooth	Yes
General Parameters	
Dimension(W*H*D)	650*420*262 mm
Weight	30kg
Operation Temperature Range	-25~60℃
Cooling Concept	Natural Cooling
Maximum Operation Altitude	4000m
Relative Humidity	0~100%
IP Rating	IP 66
Noise	<45 dB
Topological Structure	Transformerless

Technical Specifications

Model	Uhome-HB-1P3K6L1	Uhome-HB-1P5K0L1	Uhome-HB-1P6K0L1
Input data（PV）			
Max. recommended PV power	7000W	7000W	9000W
Max. DC voltage	500 Vd.c.		
Start voltage/Min. DC voltage	100V/80V		
MPPT voltage range	120~450V		
No. of MPPT trackers/No. of PV strings per MPPT tracker	2/1		
Max. input current per MPPT tracker	14A*2		
Max. short-circuit curent per MPPT tracker	15.6A*2		
PV reverse - injected current	0A		
Types of DC over-voltage	Category II		
Output data(AC)			
AC nominal power	3680W	4600W	6000W
Max. AC output current	16A	20A	26A
Max. continuous input current	26A		30A
Max. output short - circuit current	455A&4ms		
Max. output protection current	25A	30A	/
Surge current	＜30A		＜32A
Rated grid voltage / Grid voltage range	230Vac/180-270Vac		
Rated grid frequency / Frequency range	50Hz(45~54Hz) / 60Hz(55~65Hz)		
Type of AC output	Single phase(L、N、PE)		
Power factor	≥0.99 (±0.8)		
Current Harmonic Distortion	≤3%(Rated power)		
Types of AC over-voltage	Category II		
Backup power(AC)			
AC nominal voltage	220Vac/230Vac/240Vac		
Rate of recurrence	50Hz/60Hz		
Rated current	16A	20A	26A
Max. output power	3680VA/3680W	4600VA/4600W	6000VA/6000W
Switching time between grid - connected and off - grid modes	10ms		
Voltage Harmonic Distortion	≤3%(linear load)		
Max. short - circuit output current	58.13A&92ms		
Max. peak power / duration	150%/10S		
Back - feed current is allowed	0A		
Battery data(DC)			
Battery type	Lithium - ion battery / lead - acid battery		
Current Harmonic Distortion	48V		
Battery Voltage Range	40-60V		
Max. charging current	75A	100A	100A
Max. discharge current	75A	100A	100A
Charging curve	Three - stage type		
System			
Max. efficiency	97.2%	97.5%	
PV - AC European efficiency	96.5%	96.7%	
MPPT efficiency	99.9%		
Isolation mode (PV side)	Non - isolation		
Isolation Mode (Battery Side)	High - frequency isolation		
Protection Rating	IP65		
Dimension（W*D*H）	650*455*268 mm		
Protection function	DC insulation monitoring, DC monitoring, power grid monitoring, anti - islanding protection, short - circuit protection, over - heat protection, PV anti - reverse connection protection, battery anti - reverse connection protection.		
Operating Temperature Range	-10°C to +40°C		
Cooling mode	Forced air cooling		
Relative humidity	5~95%, Non - condensation		
Display	LCD		
Telecommunications	RS485（standard configuration）, Wifi,(selectable), . CAN-BUS(internal communication)		
Certification	VDE-AR-N410, AS4777/3100		
Warranty	5 years		

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

Technical Specifications

Product Type				
Model		**LFP 5.4kWh**	**LFP 10.8kWh**	**LFP 16.2kWh**
Total Energy*		5.4kWh	10.8kWh	16.2kWh
Usable Energy(DC)*		4.9kWh	9.8kWh	14.7kWh
Nominal Discharge/Charge Power		3.0kW	6.0kW	9.0kW
Peak Power(Only Discharge)		6kW for 3s	12kW for 3s	18kW for 3s
Nonimal Current		60A	100A	100A
Peak Current		100A for 3s	200A for 3s	200A for 3s
Operator Voltage Range		48~56V	48~56V	48~56V
Nonimal Voltage		51.2Vd.c	51.2Vd.c	51.2Vd.c
Weight		53kg	106kg	159kg
Dimension(L*W*H)		650*410*200mm	650*820*200mm	650*1230*200mm
Max.recommended DOD		90%		
Operating Temperature	**Charge**	From 0~55℃		
	Discharge	From -20~55℃		
WIFI Frequency Range		2.4GHz		
Recommended Humidity		＜60%		
Over Voltage Category		II		
Cooling Type		Natural cooling		
Case Material		Metal		
Color		White		
Installation		Wall mounting/Ground Installation		
IP Rating		IP 65		
Protective Class		I		
Max. Connection Number		3P		
Warranty		10 years		
Communication		CAN/RS485		
Protection Mode		Dual hardware protection		
Battery Protection		Over-current/Over-voltage/Short circuit/ Under-voltage/Over temperature		
Safety		CE/TUV		
Hazardous Material Classification		9		
Transportation		UN 38.3/ICE 62619		

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**

ALL-IN-ONE

BALCONY ENERGY STORAGE SYSTEM

>94%
Discharging efficiency of battery's useable energy is over 94%

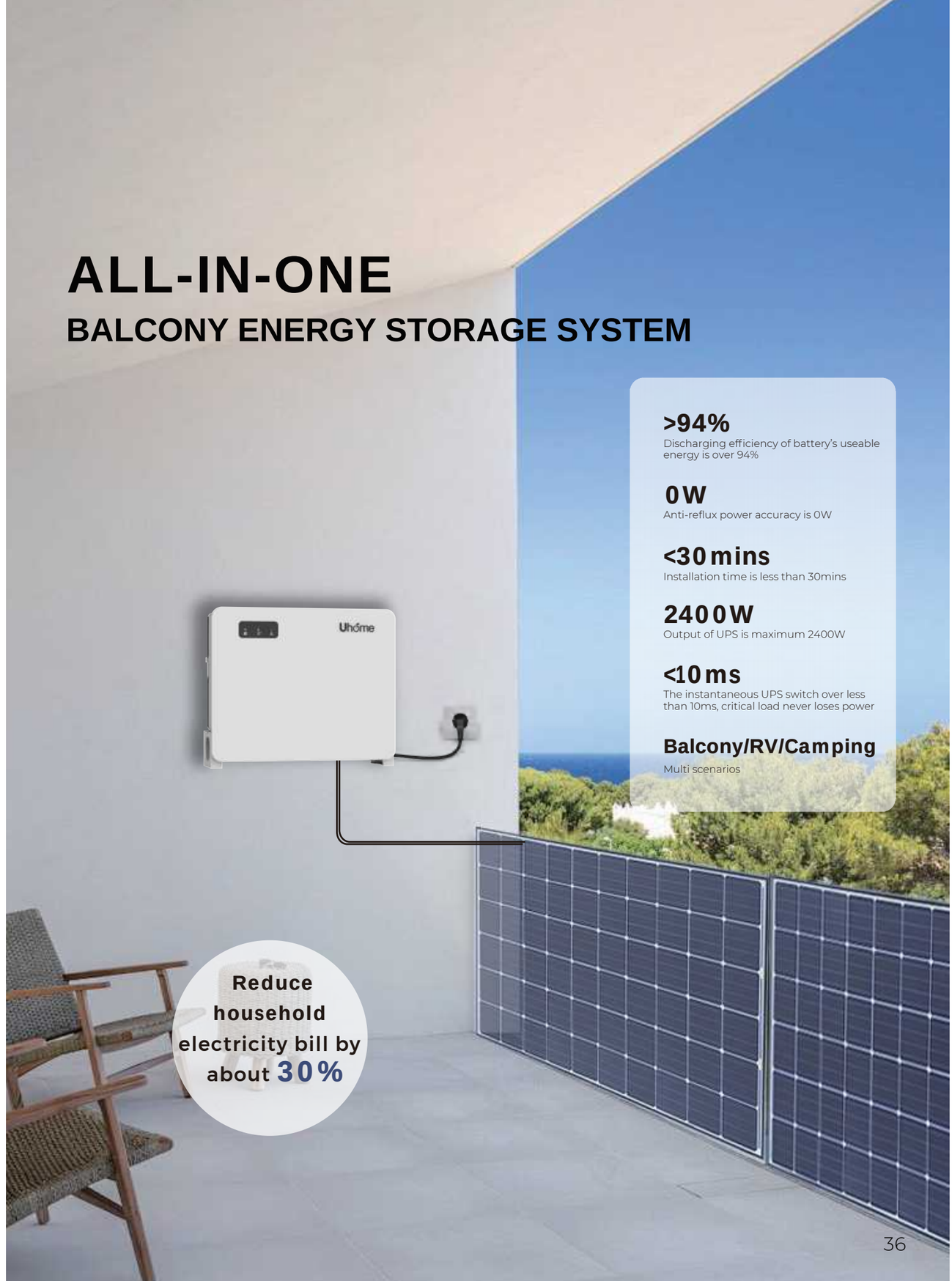
0W
Anti-reflux power accuracy is 0W

<30mins
Installation time is less than 30mins

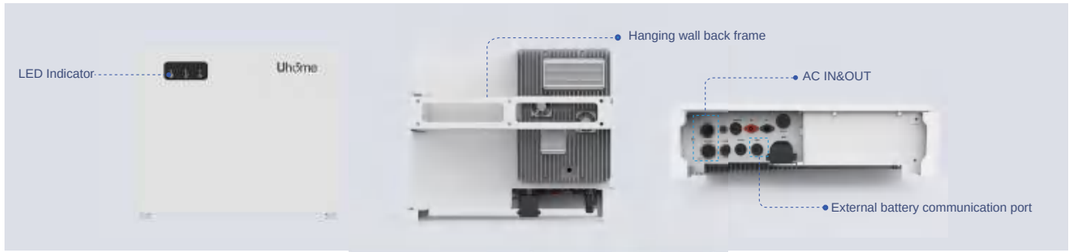
2400W
Output of UPS is maximum 2400W

<10ms
The instantaneous UPS switch over less than 10ms, critical load never loses power

Balcony/RV/Camping
Multi scenarios



Technical Specifications

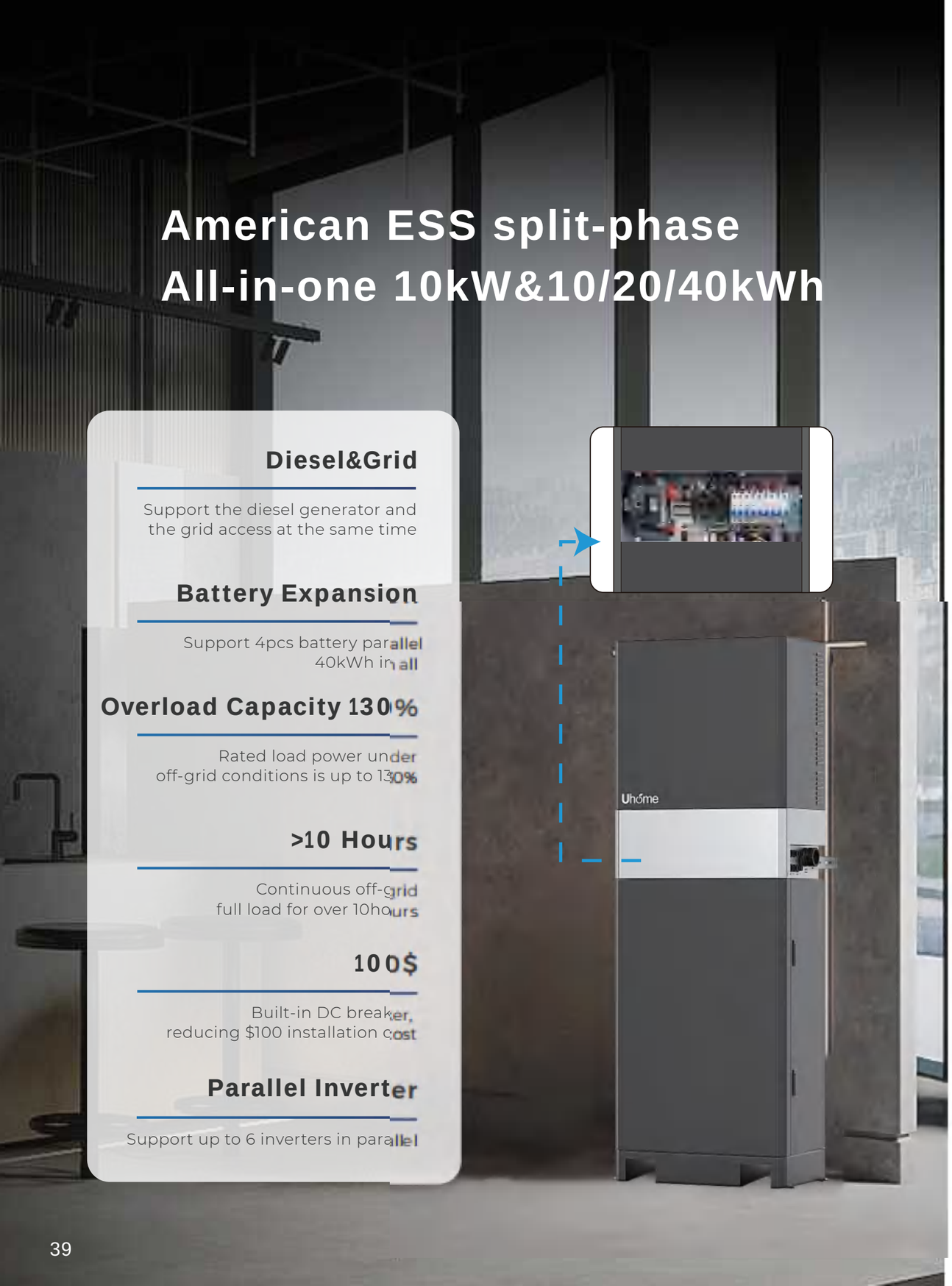


Model	Uhome DIN/024-B3
Basic Parameters	
Nominal Power	2400W
Peak Power	4800W
Machine Architecture	Bidirectional AC/DC Inverter / Buck-boost MPPT
Number of Input and Output Phases	Single Phase Input/Output
AC Output	
AC Output Wiring	Single-phase, two-wire(L,N)+Ground wire
Output Nominal Voltage	230 V
Output Voltage Accuracy	±1%
Output Frequency	50/60Hz
Output Waveform	Pure Sine Wave
Output Distortion THDV	<2%(Linear load)
	<7%(Nonlinear load)
Overload Capacity	5 Min@105%~120%Rated Load
	10s@120%~150%Rated Load
	5s@>150%Rated Load
Efficiency	
Grid Charging	Max. 93% (Basic)
Battery Discharge	Max. 94% (Basic)
MPPT	99.9%
PV Charge	Max. 95%
Eco Mode	<13W(Dormancy,No Output); <30W(No Load)
Shutdown Leakage Current	<100uA
AC Output(On Grid)	
output Wiring	Single-phase two-wire(L,N)+Ground wire
Output Voltage	230 Vac
Output Frequency	50/60Hz
Input Power Factor	≥0.95
Battery and Charge	
Nominal Capacity	2.56kWh
Max Dis/Charge Depth	90%
Nominal Battery Voltage	51.2V
Battery Type	$LiFePO_4$
Discharge Cut-off Voltage	49.6 V(Continuously Adjustable)
Charge Current	Maximum 50A ,Can Be Set Digitally,Default 25A
Protection Feature	Overload Protection, Over-Temperature Protection, Input Over-Voltage Protection, Input Under Voltage Protection, Over-Charge Protection, Over-Discharge Protection

Technical Specifications

Solar Charge	
PV Max Input Power	800W*2
PV Max Open-Circuit Voltage	100VDC
PV Operating Voltage Range	10-100VDC
PV Input Current	0-16A*2
General Parameter	
Grid-Connected Power	The grid-connected power can be set to 0~2400W (the default grid-connected power is less than 800W)
Parallel Connection Number	2-6pcs
Customer APP(WIFI Bluetooth Module Customer)	Mobile APP manages and controls grid-connected time and power, on-grid standard selection, etc
Communication Interface	WIFI/CAN
LED Indicator	Operating status: AC/OUT、CHARGE、FAULT
Software Update	Remote/Local
Operating Temperature Range	Normal full power working environment temperature -10-45 ℃, above 45 ℃, the power will be derated to 55 ℃ before shutting down
Operating Humidity Range	0-98%(No Condensation)
Cooling Method	Forced air cooling
IP Rating	IP65
Dimension	569*460*165 mm
Weight	32KG
Safety and Electromagnetic Compatibility Standards	IEC62619/IEC63056/VDE2510-50/ICE/EN62109/EN300328/EN300386/ EN50549-1/VDE4105and Other Relevant European Standard
Work Mode	
Self-consumption Mode (allow feeding, prohibit feeding - enable feeding)	A/ PV priority: Priority is given to load supply, excess energy is used to charge the battery, and the remaining energy is fed back to the grid; B/When the photovoltaic energy is insufficient, the battery will be prioritized for compensation, followed by the supply of mains electricity. Notes: A/ Self-consumption mode (allow feeding, prohibit feeding - enable feeding); B/ When two modes are used together ,in case of conflict between self-consumption mode and time-of-use mode , the latter takes priority). The selection of feeding countries corresponds to different feeding power levels in different countries. Germany has a feeding power of 800W, while other countries have a feeding power of 1600W.
Off-grid Mode(UPS)	Grid supplys the power to loads directly, automatically switchover UPS supply when the grid outage(<10ms). A/ Discharge: Photovoltaic priority, insufficient photovoltaic energy, battery compensation, followed by grid supplementation; B/ Charging: Photovoltaic priority, insufficient photovoltaic energy, compensation for mains charging.

American ESS split-phase All-in-one 10kW&10/20/40kWh



Diesel&Grid

Support the diesel generator and the grid access at the same time

Battery Expansion

Support 4pcs battery parallel 40kWh in all

Overload Capacity 130%

Rated load power under off-grid conditions is up to 130%

>10 Hours

Continuous off-grid full load for over 10hours

100$

Built-in DC breaker, reducing $100 installation cost

Parallel Inverter

Support up to 6 inverters in parallel

Model	Uhome-INV10-B20
Input (DC)	
Max DC Power(kW)	15
Max DC Voltage(V)	500 Vd.c.
MPPT Voltage Range(V)	120...500 Vd.c.
Nominal Voltage(V)	335
Start Operation Voltage (V)	125
Max Input Current (A)	14
Number of MPPT	4
Number of String per MPPT	1
DC Switch	Integrated
Battery Input	
Battery Charge Method	Self-adaption to BMS
Max Charging Voltage(V)	58V
Battery Voltage Range(V)	40-58V
Max Charge/Dis Charge Current(A)	190/210A
Max Charge/Dis Charge Power(W)	10000/10000
Output(AC)	
Norminal Apparent Power(VA)	10000
Max Apparent Power(VA)	11000
Max Input Power(VA)	11000
Grid Type	L1,L2,N,PE
Norminal Frequency(Hz)	50/60
Norminal Voltage(V)	110-120/220-240V(split phase), 208(2/3 phase),230 (single phase)
Max Output/Input Current(A)	45.8
THDi(Rated power)	<3%
PF	-0.8~+0.8
Switch Time	10ms(Typical)
AC Output(Back-up)	
Rated Power(kVA)	10
Rated Output Voltage(V)	120/240
Max Output Current(A)	45.8
Rated Frequency(Hz)	50/60 Hz
Automatic Switching Time(ms)	<10
THDv(100%R Load)	<2
Overload Capacity	125%<Load≤135%，60S，Load>150%1S
Output Parallel(Pcs)	6
Efficiency	
Max Efficiency(BAT to AC)	≥98.2%
Max Efficiency(PV to AC)	≥98.0%
CEC Efficiency	≥97.2%
Max MPPT Efficiency	≥98.0%
General Parameters	
GFCI	YES
Anti-islanding Protection	YES
PV String Input Reverse Polarity Protection	YES
Output Over Voltage Protection	YES
Output Over Current Protection	YES
Insulation Resistor Detection	YES
AFCI	YES
RSD	YES
General Parameters	
Operating Temperature Range	-25~60℃(>45℃ derating)
Relative Humidity	0~95%
Max Altitude(m)	>2000m derating
Electronics Protection Degree	IP54/NEMA 3R

Topology Type	Transformerless
Night Self Consumption(W)	<25
Cooling	Forced air cooling
Dimension (L × W ×H)	650*400*1820mm
Weight	220kg(10kWh)/320kg(20kWh)
Noise(db)	<38
HMI	APP/LCD
COM	RS485/CAN/WIFI/4G/Bluetooth(Optional)
Certification	
Safety	UL1741, CSA C22.2 No. 107.1:16,UL1998
EMC	FCC Part 15 ClassB
Grid Code	IEEE1547, CPUC Rule21, SRD V2.0, UL1741 SA, UL1741
EMC	FCC Part 15, Class B
On-grid	IEEE 1547, IEEE 2030.5, Hawaii Rule 14H, Rule 21 Phase I,II,III,NRS

Note: The battery model used for this device is LFP 5000B.
Please refer to pages 11 and 12 for specific parameters.

Commercial and Industrial
Smart Energy Storage System

Uhome-CIESS 60kWh&120kWh

- Higher Safety Protection
- Faster Dis/Charging Speed
- Intelligent Built-in BMS

6000
Cycle Life@25°C

Solid-State
LFP Battery Cells

53Ah
single battery

1C
Discharging Rate

Increase 8%
Energy Density

Technical Specifications

Model	LFP 60kWh Pack
Total Energy*	64.8kWh
Battery Capacity	53Ah*2
Max.recommended DOD	93%
Voltage Range	576-672Vd.c
Nominal Voltage	614.4Vd.c
Nominal Dis/charging Current	80A/80A
Max. Charge Voltage	691.2Vd.c
Weight	900kg
Dimension(L*W*H)	1000*850*2045mm
Operating Condition	Indoor&Outdoor(With Shelter)
Operating Temperature	-20~55℃
WIFI Frequency Range	2.4GHz
Recommended Humidity	<60%(No condensed water)
Over Voltage Category	II
Cooling Type	Natural cooling
Installation	Ground mounted
IP rating	IP55
Protective Class	I
Max. Connection Number	12S1P
Communication	CAN/ RS485
Protection Mode	Hardware&software protection
Battery Protection	Over-current/Over-voltage/Short circuit/ Under-voltage/Over temperature
Safety	Cell UL TUV
	CE/TUV
Hazardous Material Classification	9
Transportation	UN 38.3
Product Warranty	Battery:10 years;Air condition unit:2 years 1)For better battery life cycles,we suggest charge in 50A(0.5C @25°C) 2)For better battery life cycles,we suggest discharge in 50A(0.5C @25°C)
Recommended inverter brand	Deye/Solinteg

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.

Technical Specifications

Model	LFP 120kWh Pack
Total Energy*	129.6kWh
Battery Capacity	53Ah*2
Max.recommended DOD	93%
Voltage Range	576-672Vd.c
Nominal Voltage	614.4Vd.c
Nominal Dis/charging Current	160A/160A
Max. Charge Voltage	691.2Vd.c
Weight	1500kg
Dimension(L*W*H)	1500*850*2045mm
Operating Condition	Indoor&Outdoor(With Shelter)
Operating Temperature	-20~55℃
WIFI Frequency Range	2.4GHz
Recommended Humidity	<60%(No condensed water)
Over Voltage Category	II
Cooling Type	Natural cooling
Installation	Ground mounted
IP rating	IP55
Protective Class	I
Max. Connection Number	12S2P
Communication	CAN/ RS485
Protection Mode	Hardware&software protection
Battery Protection	Over-current/Over-voltage/Short circuit/ Under-voltage/Over temperature
Safety	Cell UL TUV
	CE/TUV
Hazardous Material Classification	9
Transportation	UN 38.3
Product Warranty	Battery:10 years;Air condition unit:2 years 1)For better battery life cycles,we suggest charge in 50A(0.5C @25°C) 2)For better battery life cycles,we suggest discharge in 50A(0.5C @25°C)
Recommended inverter brand	Deye/Solinteg

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.

Intelligent Monitoring System

The self-developed Uhome App is an energy storage monitoring and management system based on cloud computing technology. It allows users to monitor, control and optimize the operation of energy storage systems Anytime Anywhere. Users can download **UHOMEENERGY** from Apple store or Google Play store.

Key features

- **User-friendly interface**
  Easy to operate at your fingertips
- **Real-time operation monitoring**
  Show details of real-time status of devices
- **Remote system upgrade**
  The system can be remotely upgraded by Uhome while it is online
- **Intelligent alarm**
  Real-time fault alarm, analysis, reporting and troubleshooting
- **Parameter setting**
  Configure parameters remotely
- **Proactive after-sales service**
  Help user solving problems in the fastest and most cost-effective way

Experiencing the Smart App today!

Download on the App Store

GET IT ON Google Play

Delivering Smart, Clean Energy !