

Uhome Smart Energy

Residential energy storage system solution



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www.uhomeenergy.com

Who we are

10 Years
10 Years
Warranty

100+
Technology
Patents

10%
Continuous
R&D investment

50+
Engineers

70+
Countries
Business
Areas

80000+
PCS
Shipped
Quantity



Safe and Reliable Top-tier cells

- Pioneer in semi solid state ESS with higher safety
- Built-in electrical protections and fire safety system
- 10 year warranty



One-stop ESS solution and Intelligent System

- Wide range of products for one-stop ESS solution
- Monitor and optimise your system 24/7 via cloud-based platform
- On time remote maintenance and technical support



Proven Track Records and Local Service

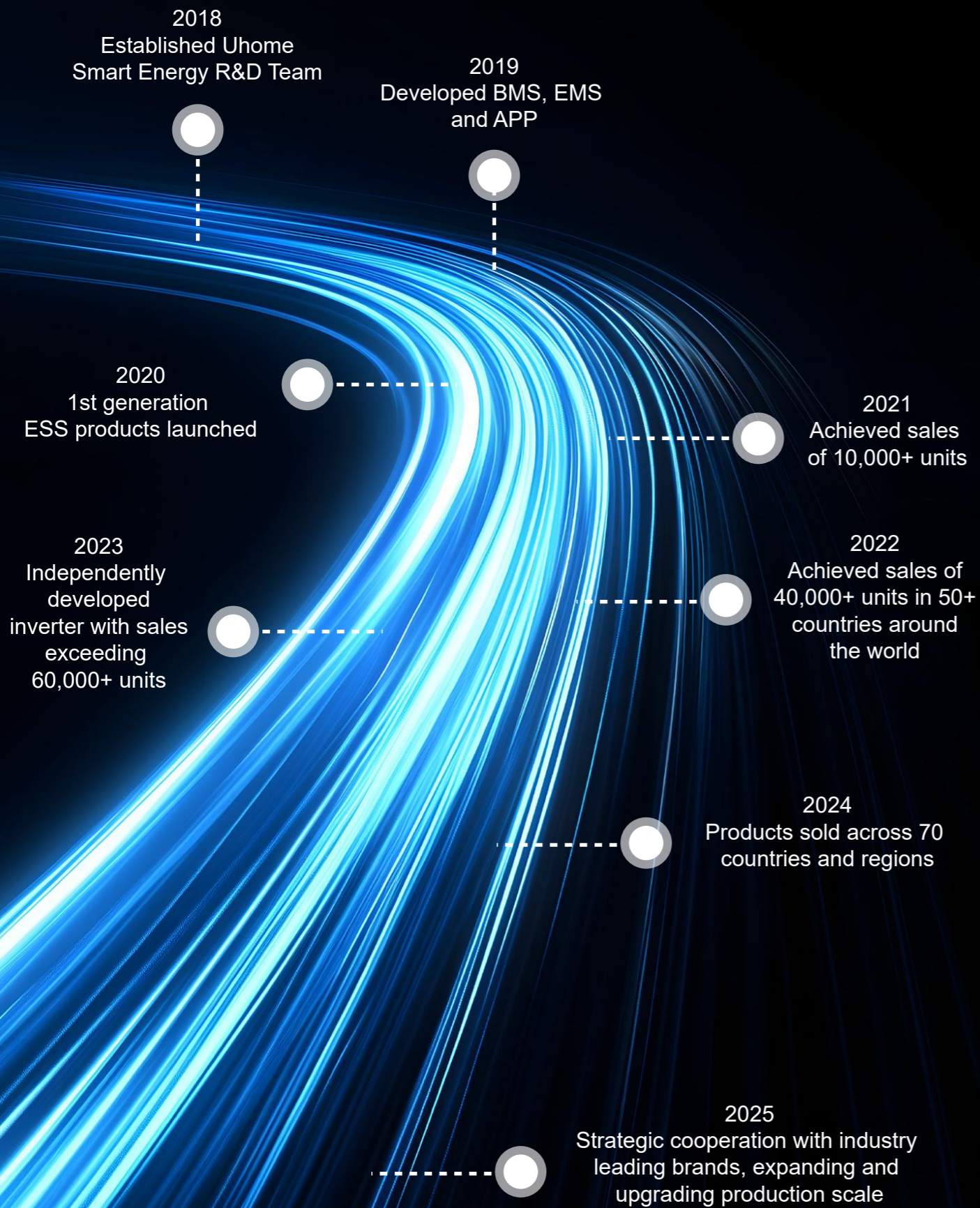
- Vast installations in Europe, Africa, Southeast Asia, and other regions
- Local service offered through affiliates



ABOUT US

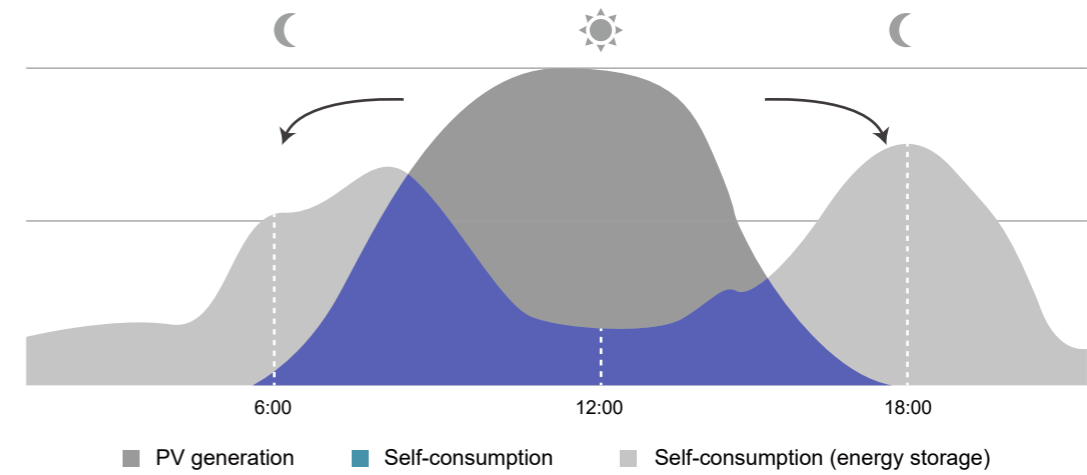
Uhome is a leading energy storage solutions provider. The Company has established a comprehensive product portfolio for a wide range of applications including residential and small commercial & industrial (C&I) by leveraging its proprietary technology and robust R&D capabilities. Uhome has extensive 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.



● 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 and night, during outages or when you want to go off-grid, and to optimize 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,
Flexible 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



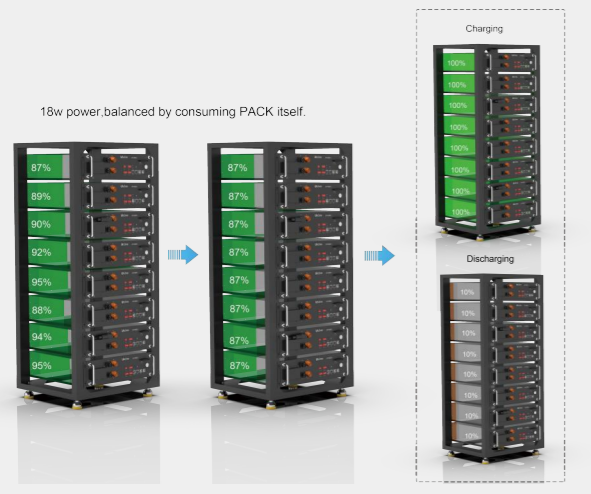
Wide Compatibility

Compatible with wide
range of inverters

10 CORE ADVANTAGES

1 Voltage Balancing Between the Batteries

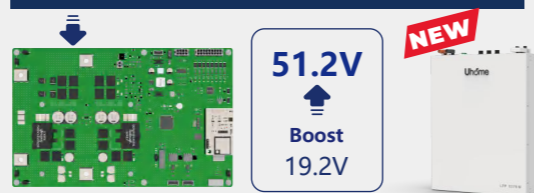
Automatic balancing voltage difference between battery packs. Voltage balance can be achieved in series or parallel.



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.

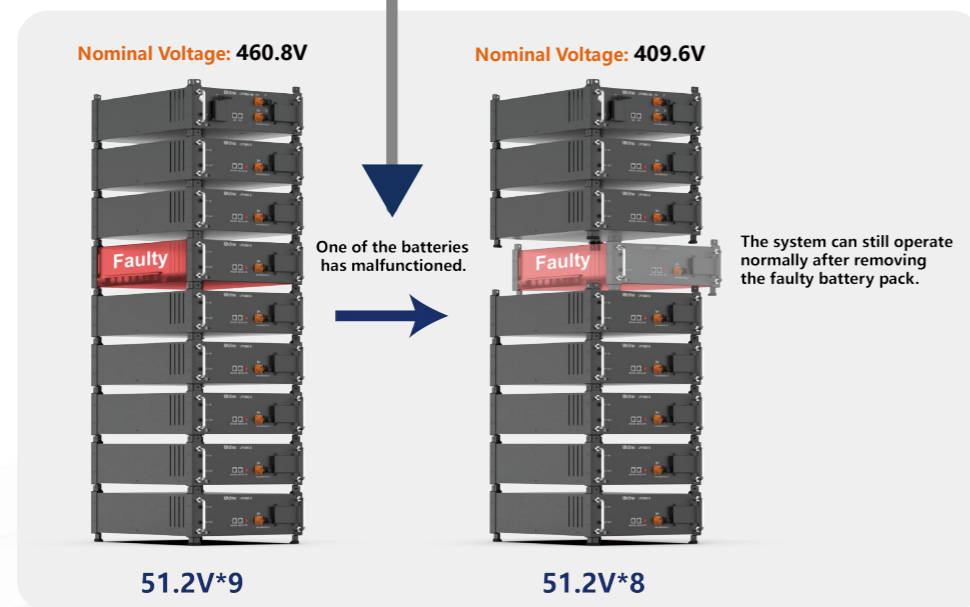
BMS+DC/DC=5376M Low voltage management system



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

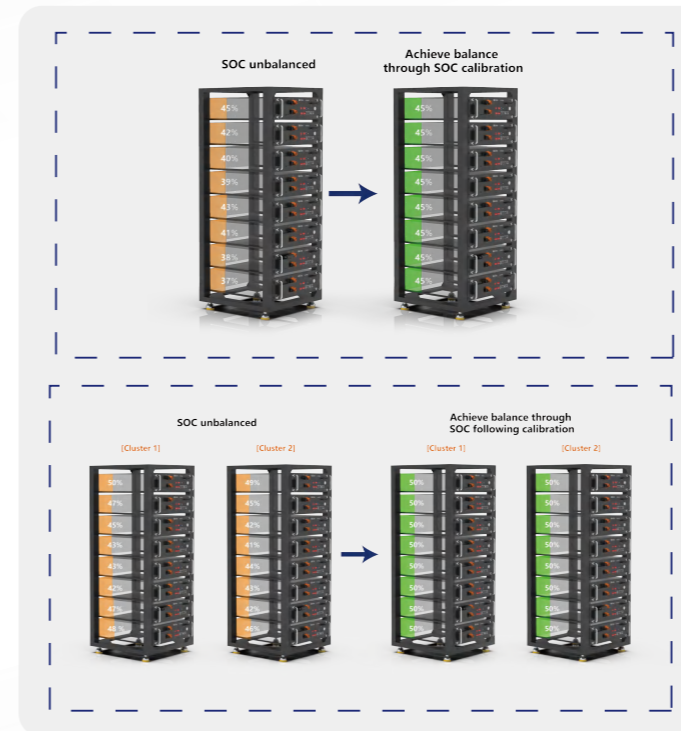
3 Bypass Module technology

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



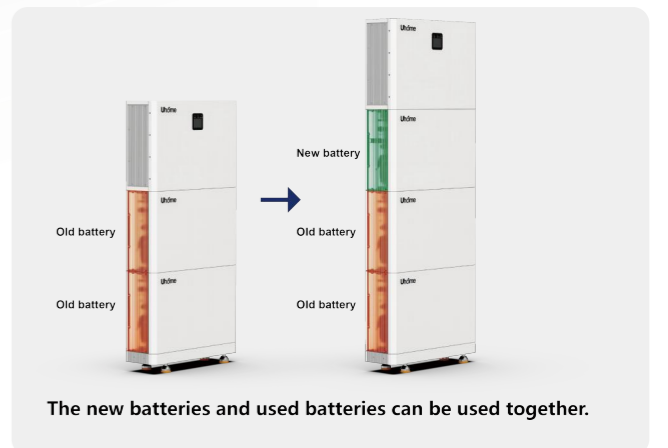
5 SOC Dynamic Calibration

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



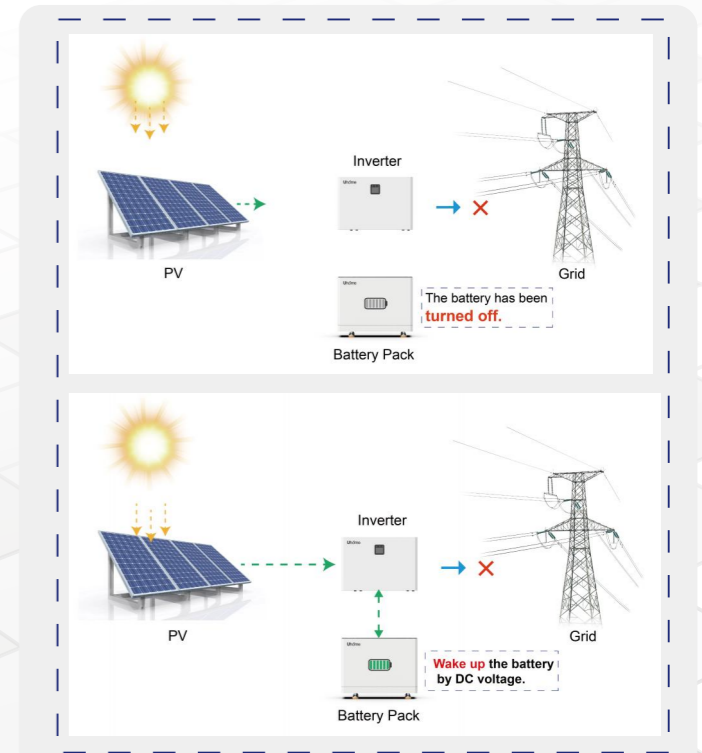
4 Parallel Strategy (The new batteries and used batteries can be used together)

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

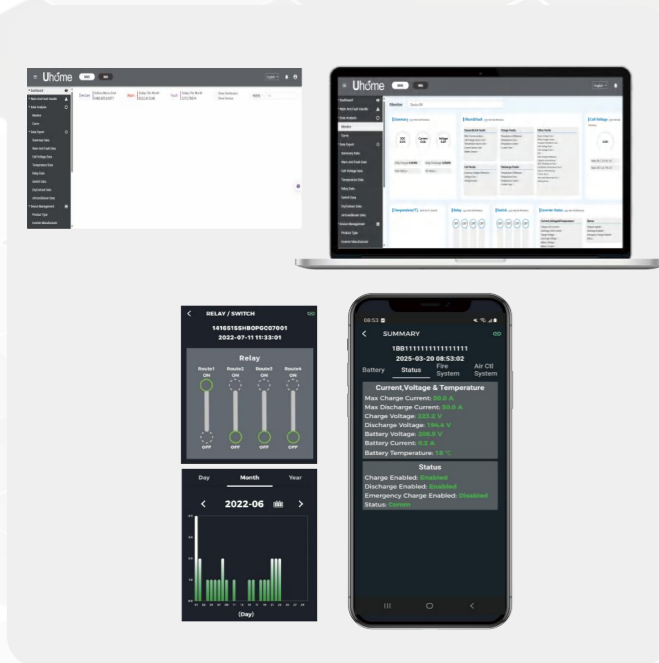
The battery is likely to run out of power and be in dormant due to the complex operating conditions under the off-grid system. Our technology can automatically wake up the battery into operation.



10 CORE ADVANTAGES

7 Remote Monitoring

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

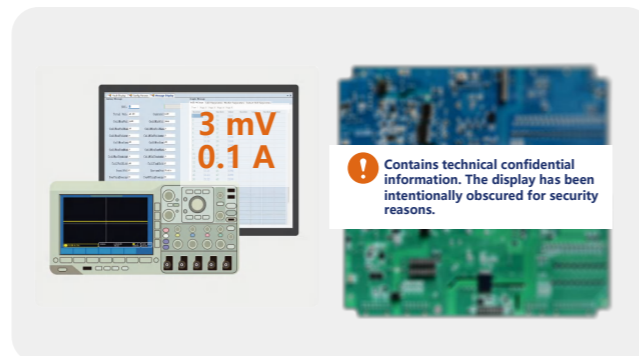


By leveraging AI-powered optimization algorithms and synchronizing real-time data from grid operators, the system automatically adjusts inverter settings to maximize customer benefits and deliver greater cost savings on electricity bills.

8 Accurate Acquisition of Battery's Information

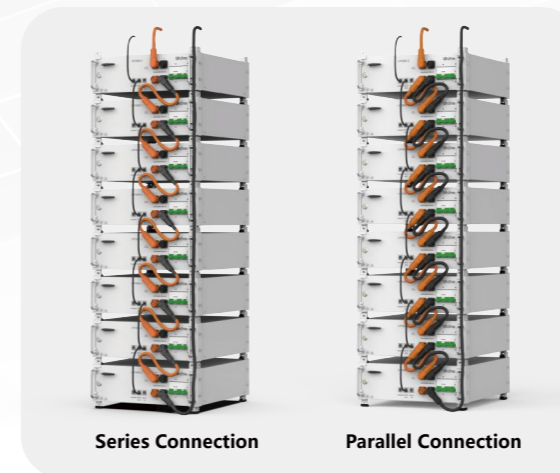
Accurate acquisition and precise control, free from the EMC interference of the inverter. voltage monitoring can be accurate to within 3 mV, and current can be accurate to within 0.1 A, making SOC more precise.

Far Ahead of The Industry



9 Series and Parallel Connection

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



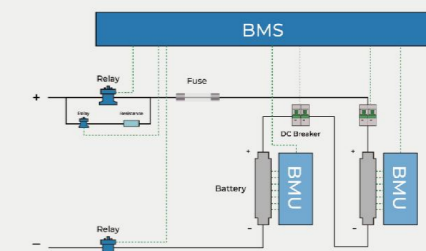
World's only Industry-first Technology

- ▼ **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

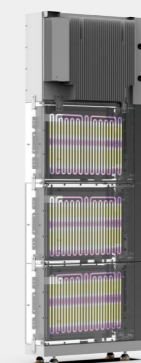
Triple Safety Protection Equipment



Fire Protection Equipment



Low Temperature Protective Heating Device



LFP 5000DM

LiFePO₄ Battery ESS



PRODUCT FEATURES



1C
Discharge Rating



Voltage Wake-up
Under off-grid System Environment



Multiple Safety Protection
MOS, 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 power usage and battery pack operation



Parallel
Supports parallel connection of 16 units



No Dip Switch
Easy for commission

Technical Specifications

Product Image		
Model	LFP 5000DM	
Battery Type	LiFePO ₄ Prismatic	
Nominal Energy	5.1kWh	
Usable Energy*	4.7kWh	
Nominal Capacity	100Ah	
Nominal Voltage	51.2V	
Operating Voltage	48~56V	
Under Lead-acid Mode	Recommended Current Recommended Voltage	50A 48~55.2V
Max Charge/Discharge Current	60A/100A	
Peak Discharge Current	120A(3S)	
Peak Discharge Power	6kW(3S)	
Recommended Depth of Discharge (DOD)	93%	
Charging Temp. Range	From 0~55 °C	
Discharging Temp. Range	From -10~55 °C	
Cycle Life	≥6000@25 °C	
Scalability	16 Parallel	
WIFI Module	Uhome	
Communication	CAN/ RS485	
IP Rating	IP20	
Recommended Humidity	5%~95%(No condensed water)	
Cooling Type	Natural cooling	
Color	White(optional)	
Installation	Rack Mounted/Wall Mounted	
Net Weight	44±1kg	
Dimension(W*H*D)	442*135*500mm	
Protection	Over-current/Over-voltage/Short circuit/ Under-voltage/Over temperature	
Warranty	5/10 years* (optional)	
Certification	UN38.3/CE/UL1973(Cell)	

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

*Total Energy/Usable Energy measured under specific conditions by Uhome 0.2C CC-CV and based on recommended DOD(93%);

5120M/5120MPro/10240M PIONEER SOLID-STATE BATTERY ESS

≥8000
Cycle Life@25°C

Solid-State
Battery Cells better safety

1.5C
Faster Discharging

IP 20/IP 65
Fearless of outdoor installation, strong environmental adaptability

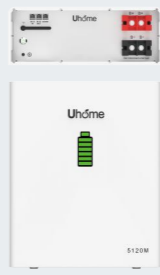


No DIP Switch
Easy for commission

Versatile Installation
Wall/Ground/Stack Mounting

Great Expandability
Supports parallel connection of 16 units



Technical Specifications

Product Image			
Model	LFP 5120M	LFP 5120MPro	LFP 10240M
Battery Type	Semi-solid state pouch		
Nominal Energy	5.12kWh	6.14kWh	10.2kWh
Usable Energy*	4.86kWh	5.83kWh	9.69kWh
Nominal Capacity	100Ah	120Ah	200Ah
Nominal Voltage	51.2V		
Operating Voltage	48~56V		
Under Lead-acid Mode	Recommended Current	50A	
	Recommended Voltage	48~55.2V	
Recommended Charge&Discharge Current	50A/50A	60A/60A	100A/100A
Max Charge/Discharge Current	80A/100 A	80A/100 A	100A/120 A
Peak Discharge Current	150A(3S)		
Peak Discharge Power	7.68kW(3S)		
Recommended Depth of Discharge (DOD)	95%		
Charging Temp. Range	From 0~55 °C		
Discharging Temp. Range	From -20~55 °C		
Cycle Life	≥8000@25 °C		
Scalability	16 Parallel		
WIFI Module	Uhome		
Communication	CAN/ RS485		
IP Rating	IP20	IP65	IP20
Recommended Humidity	5%~95%(No condensed water)		
Cooling Type	Natural cooling		
Color	White(optional)		
Installation	Wall/Ground Mounted	Wall/Ground Mounted	Ground Mounted
Net Weight	46kg	50±1kg(Top Cover optional)	88kg
Dimension(L*W*H)	535*442*165mm	440*588*165mm	442*920*165mm
Protection	Over-current/Over-voltage/Short circuit/ Under-voltage/Over temperature		
Warranty	5/10 years* (optional)		
Certification	UN38.3/CE/IEC62619		

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

*Total Energy/Usable Energy measured under specific conditions by Uhome 0.2C CC-CV and based on recommended DOD(95%);

Semi-Solid State Battery Introduction

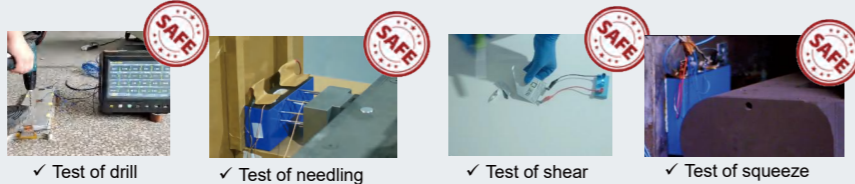
What is Semi-Solid State Battery

In solid-state lithium-ion batteries, lithium ions travel between electrodes through a solid electrolyte during the charging and discharging processes. However, full solid-state batteries encounter challenges related to limited contact efficiency between the electrodes and the electrolyte. To overcome this issue, a promising solution is to incorporate small amounts of liquid electrolytes, which can optimize battery performance and extend lifespan.

Semi-solid state batteries, the 1st generation of all solid state, offer enhanced safety compared to traditional LFP batteries, as the solid components significantly reduce the risk of leakage. Additionally, the special small amounts inclusion of liquid electrolytes improves ion conductivity, thereby enhancing overall battery performance.

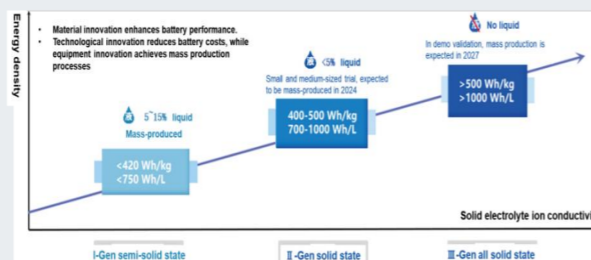
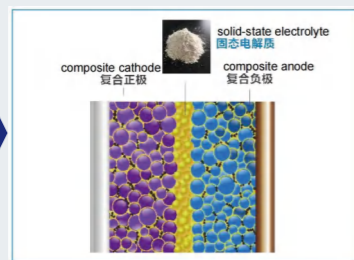
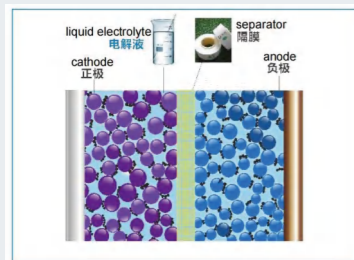


The solid electrolyte base material used by our company is a functional ceramic material. The core and barrier of solid-state LIBs is the innovative development of materials.



Our products have undergone multiple rigorous tests.

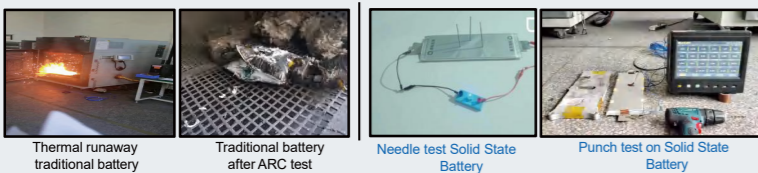
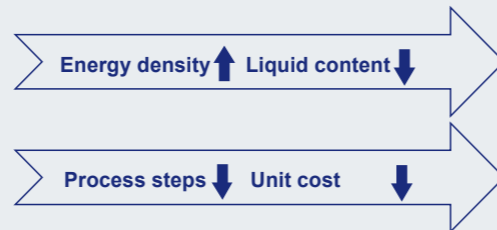
Core Advantages



MUCH SAFER: The liquid electrolyte content of semi-solid state batteries is reduced to 5% -10%, and the semi-solid structure significantly reduces the risk of leakage. The solid-state electrolyte layer suppresses lithium dendrite growth and reduces the probability of thermal runaway.

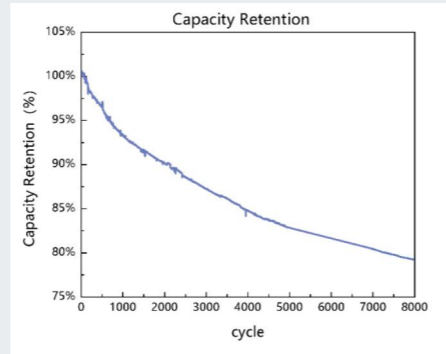
LONGER SPAN LIFE: Solid electrolytes slow down the corrosion and volume expansion of electrode materials, improving long-term stability.

HIGHER COST-EFFECTIVENESS: The semi-solid state battery adopts in-situ solidification technology, and only requires partial modification of the liquid battery production line to achieve mass production, greatly reducing equipment investment costs.



300°C ARC Test (Accelerating Rate Calorimeter)		
Items	Solid state LFP Battery	Traditional LFP
Max. temperature rise rate (dT/dt) _{max} (°C/S)	0.235	2.129
Temperature point T _{max} (°C)	No thermal runaway	471.4

Note: Definition conditions for thermal runaway, temperature rise rate dT/dt ≥ 1°C/S



- High Safety
- Long Battery Life
- More affordable

LFP 2560M/5120MP

LiFePO₄ Battery ESS



Remote Monitoring & Wireless Upgrade
USB upgrade can also be done when there is no network



PRODUCT FEATURES

- ≥ 6000 Cycle Life@25°C
- USB upgrade: USB upgrades are available, allowing for preservation of fault data
- Smart BMS: Intelligent management & maintenance of battery systems
- Remote Monitoring: Real time monitoring of power usage and battery pack operation
- Multiple Safety Protection: MOS, DC Breaker
- New & Old Batteries can be used in together: Connect in Parallel
- Parallel: Supports parallel connection of 16 units
- Voltage Wake-up: Under off-grid System Environment

● Technical Specifications

Product Image		
Model	LFP 2560M	LFP 5120MP
Battery Type	LiFePO ₄ Prismatic	
Nominal Energy	2.56kWh	5.1kWh
Usable Energy*	2.3kWh	4.7kWh
Nominal Capacity	100Ah	100Ah
Nominal Voltage	51.2V	
Operating Voltage	24~28V	48~56V
Under Lead-acid Mode	Recommended Current	50A
	Recommended Voltage	24~27.6V
Recommended Charge&Discharge Current	50A/50A	
Max Charge/Discharge Current	100A/100 A	
Peak Discharge Current	150A(3S)	
Peak Discharge Power	4kW(3S)	8kW(3S)
Recommended Depth of Discharge (DOD)	93%	
Charging Temp. Range	From 0~55 °C	
Discharging Temp. Range	From -10~55 °C	
Cycle Life	≥6000@25 °C	
Scalability	16 Parallel	
WIFI Module	Uhome	
Communication	CAN/ RS485	
IP Rating	IP20	
Recommended Humidity	5%~95%(No condensed water)	
Cooling Type	Natural cooling	
Color	White(optional)	
Installation	Ground Mounted	
Net Weight	35kg	50kg
Dimension(L*W*H)	400*450*160mm	560*450*160mm
Protection	Over-current/Over-voltage/Short circuit/ Under-voltage/Over temperature	
Warranty	5/10 years*(optional)	
Certification	CE/UN38.3	

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

*Total Energy/Usable Energy measured under specific conditions by Uhome 0.2C CC-CV and based on recommended DOD(93%);

LFP 16076M/LFP 16076MPlus

LiFePO₄ Battery ESS



LFP 16076M
IP20


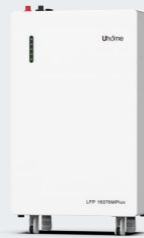


LFP 16076MPlus
IP65

PRODUCT FEATURES

- 
≥8000
Cycle Life@25°C
- 
Voltage Wake-up
Under off-grid System Environment
- 
Smart BMS
Intelligent management & maintenance of battery systems
- 
Remote Monitoring
Real time monitoring of power usage and battery pack operation
- 
Multiple Safety Protection
MOS, DC Breaker
- 
New&Old Batteries can be used in together
Connect in Parallel
- 
Parallel Connection
Supports parallel connection of 16 units
- 
Voltage Balancing
Voltage Balancing between Battery Cells&Battery Pack

● Technical Specifications

Product Image			
Model		LFP 16076M	LFP 16076MPlus
Battery Type		LiFePO4 Prismatic	
Nominal Energy		16.076kWh	
Usable Energy*		14.95kWh	
Nominal Capacity		314Ah	
Nominal Voltage		51.2V	
Operating Voltage		48~56V	
Under Lead-acid Mode	Recommended Current	100A	80A
	Recommended Voltage	48~55.2V	
Recommended Charge&Discharge Current		150A/150A	100A/100A
Max Charge/Discharge Current		150A/150 A	200A/200 A
Peak Discharge Current		200A(3S)	240A(3S)
Peak Discharge Power		10kW(3S)	12kW(3S)
Recommended Depth of Discharge (DOD)		93%	
Charging Temp. Range		From 0~55 °C	
Discharging Temp. Range		From -10~55 °C	
Cycle Life		≥ 8000@25 °C	
Scalability		16 Parallel	
WIFI Module		Uhome	
Fire Protection		Built-in aerosol(optional)	
Communication		CAN/ RS485	
IP Rating		IP20	IP65
Recommended Humidity		5%~95%(No condensed water)	
Cooling Type		Natural cooling	
Color		White(Optional)	
Installation		Floor-mounting	Floor-mounting/Stack-mounting
Net Weight		115kg	115±2kg
Dimension(L*W*D)		450*752*235mm	480*750*235mm
Protection		Over-current/Over-voltage/Short circuit/ Under-voltage/Over temperature	
Top Cover		/	Yes (Optional)
Heating Module		/	Yes (Optional)
Warranty		5/10 years* (optional)	
Certification		UN38.3/CE/IEC 62619(Cell)	
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 and based on recommended DOD(93%);			

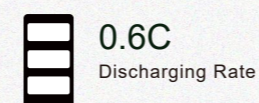
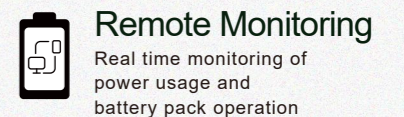
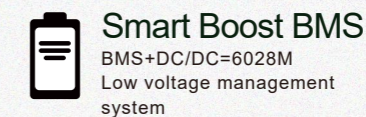
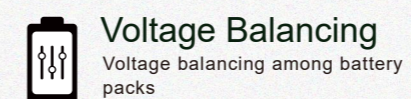
LFP 6028M LiFePO₄ Battery ESS

The King of Cost-effectiveness

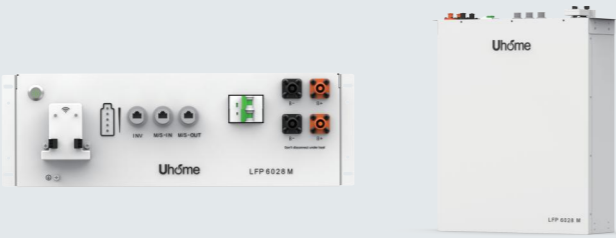


PRODUCT FEATURES

Parallel Connection (MAX 16P)



● Technical Specifications

Product Image	
Model	LFP 6028M
Battery Type	LiFePO ₄ Prismatic
Nominal Energy	6.028kWh
Usable Energy*	5.6kWh
Nominal Capacity	314Ah
Nominal Voltage	50V
Operating Voltage	48~52V
Recommended Charge&Discharge Current	30A/30A
Max Charge/Discharge Current	60A/60 A
Peak Discharge Current	80A(3S)
Peak Discharge Power	4kW(3S)
Recommended Depth of Discharge (DOD)	93%
Charging Temp. Range	From 0~55 C
Discharging Temp. Range	From -10~55 C
Cycle Life	≥6000@25 C
Scalability	16 Parallel
WIFI Module	Uhome
Communication	CAN/ RS485
IP Rating	IP20
Recommended Humidity	5%~95%(No condensed water)
Cooling Type	Natural cooling
Color	White(optional)
Installation	Rack Mounted/Ground Mounted
Net Weight	45±5kg
Dimension (W*H*D)	443*135*555mm
Protection	Over-current/Over-voltage/Short circuit/ Under-voltage/Over temperature
Fire Protection	Built-in aerosol(optional)
Warranty	5/10 years* (optional)
Certification	UN38.3

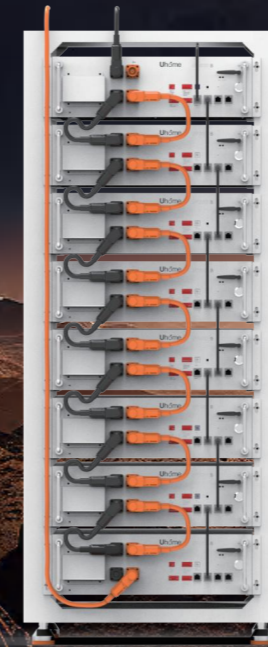
Testing conditions based on temperature 25 C at the beginning of life.

*Total Energy/Usable Energy measured under specific conditions by Uhome 0.2C CC-CV and based on recommended DOD(93%);

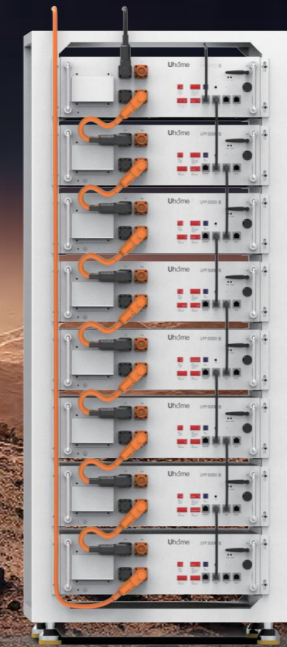
LFP 5000B

LiFePO₄ Battery ESS

Both household and commercial storage are applicable
and can be freely combined.



Parallel Connection(MAX 16P)



Series Connection(MAX 16S)

PRODUCT FEATURES



≥6000
Cycle Life@25°C



Multiple Safety
Protection
Relay, DC Breaker



Smart BMS
Intelligent management &
maintenance of battery systems



Parallel&Series
Supports parallel/series connection
of 16 units



Voltage Wake-up
Under off-grid System Environment



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




Remote Monitoring
Real time monitoring of
power usage and
battery pack operation



Voltage Balancing
Voltage Balancing between
Battery Cells&Battery Pack

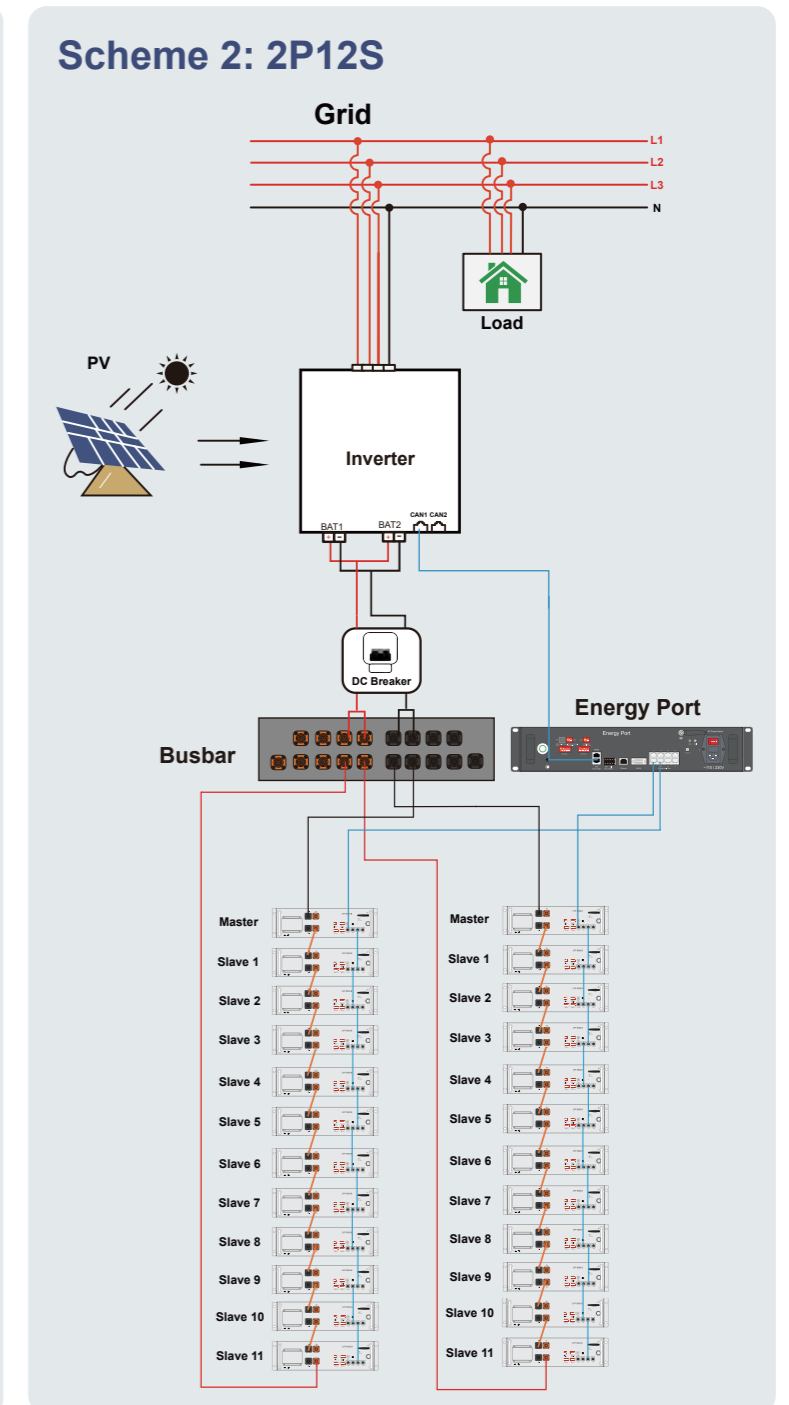
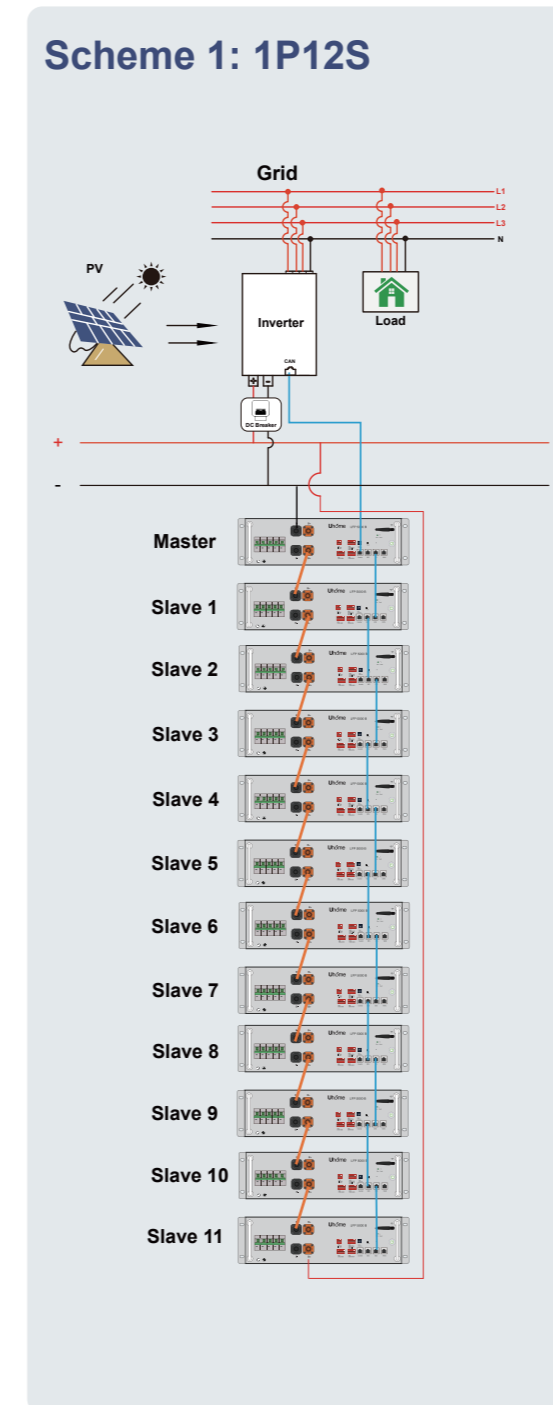
● Technical Specifications

Product Image	
Model	LFP 5000B
Battery Type	LiFePO ₄ Prismatic
Nominal Energy	5.1kWh
Usable Energy*	4.7kWh
Nominal Capacity	100Ah
Nominal Voltage	51.2V
Operating Voltage	48~56V
Recommended Charge&Discharge Current	50A/50A
Max Charge/Discharge Current	60A/60 A
Peak Discharge Current	120A(3S)
Peak Discharge Power	6kW(3S)
Recommended Depth of Discharge (DOD)	93%
Charging Temp. Range	From 0~55 °C
Discharging Temp. Range	From -10~55 °C
Cycle Life	≥6000@25 °C
Scalability	16 Parallel/16 Series
WIFI Module	Uhome
Communication	CAN/ RS485
IP Rating	IP20
Recommended Humidity	5%~95%(No condensed water)
Cooling Type	Natural cooling
Color	Black/White
Installation	Walling Mounted/Ground Mounted
Net Weight	45kg
Dimension(W*H*D)	442*133*520mm
Protection	Over-current/Over-voltage/Short circuit/ Under-voltage/Over temperature
Warranty	5/10 years* (optional)
Certification	UN38.3/UL1973/CE/IEC 62619/UL9540A

Testing conditions based on temperature 25 °C at the beginning of life.
*Total Energy/Usable Energy measured under specific conditions by Uhome 0.2C CC-CV and based on recommended DOD(93%);

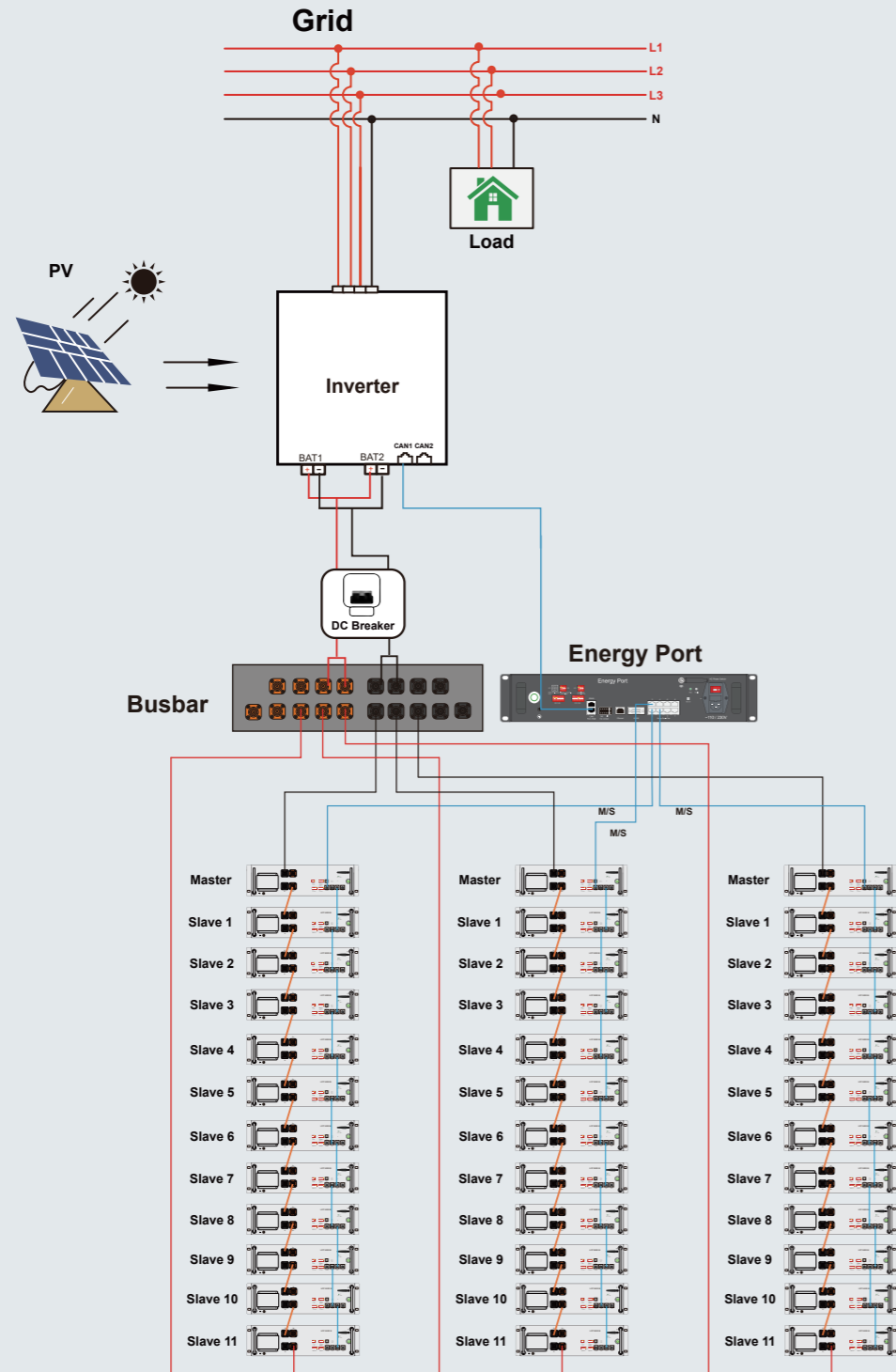
● Typical Application Cases

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



Typical Application Cases

Scheme 3: 3P12S



Pioneer Solid-State Lithium-ion Battery ESS


6140SM/S 24.56-79.82kWh


- High-performance high-voltage storage system.
- Modular design for ultimate flexibility.
- Suitable for a wide range of applications.
- Expandable up to 79.82 kWh capacity.
- Plug-and-play for quick installation




PRODUCT FEATURES


Ultra safe with
solid-state battery cells


Built-in fire extinguishing
system(optional)


SOC balancing between
packs & clusters




Easy installation: save
time and costs


Flexible expansion: up to
8 clusters in parallel


Built-in
intelligent BMS


WAN Port
& WIFI

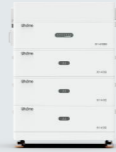
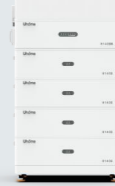


● Technical Specifications

Battery Module Image			
Model		6140SM(Master)	6140S(Slave)
Battery Type		Semi-solid state Prismatic	
Nominal Energy		6.14kWh	
Usable Energy*		5.83kWh	
Nominal Capacity		120Ah	
Nominal Voltage		51.2V	
Operating Voltage		41.6~57.6V	
Under Lead-acid Mode	Recommended Current	50A	
	Recommended Voltage	48~55.2V	
Recommended Charge&Discharge Current		80A/100A	
Max Charge/Discharge Current		120A/120A	
Peak Discharge Current (2min 25℃)		125A	
Peak Discharge Power (2min 25℃)		6.144kW	
Recommended Depth of Discharge (DOD)		95%	
Charging Temp. Range(Cell)		From 0~55℃	
Discharging Temp. Range(Cell)		From -20~55℃	
Operating Ambient Temperature (Pack)		With heating module:-30~55℃ / No heating module:-20~55℃	
Cycle Life		≥8000@25℃	
Scalability		1 Master series	Up to 12 Slave series
WIFI Module		Built-in	
Communication		CAN/ RS485	
IP Rating		IP65	
Recommended Humidity		5%~95%(No condensed water)	
Cooling Type		Natural cooling	
Color		White(optional)	
Installation		Stack-mounting	
Net Weight		59±1kg	56±1kg
Dimension (W*H*D)		620*170*400mm	
Protection		Over-current/Over-voltage/Short circuit/Under-voltage/Over temperature	
Heating Module		Yes	
Balancing Module		Yes	
Fire Protection		Built-in aerosol(optional)	
Warranty		5/10 years* (optional)	
Certification		CE/UN38.3/IEC62619/IEC62477	

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

*Total Energy/Usable Energy measured under specific conditions by Uhome 0.2C CC-CV and based on recommended DOD(95%);




● Technical Specifications

Product Image					
Model		24.56kWh	30.70kWh	36.84kWh	42.98kWh
Battery Type		Semi-solid state Prismatic			
Nominal Energy		24.56kWh	30.70kWh	36.84kWh	42.98kWh
Usable Energy*		23.33kWh	29.16kWh	34.99kWh	40.83kWh
Nominal Capacity		120Ah			
Nominal Voltage		204.8V	256V	307.2V	358.4V
Operating Voltage		166.4~230.4V	208~288V	249.6~345.6V	291.2~403.2V
Under Lead-acid Mode	Recommended Current	50A			
	Recommended Voltage	192~220.8V	240~276V	288~331.2V	336~386.4V
Recommended Charge&Discharge Current		80A/100A			
Max Charge/Discharge Current		120A/120A			
Peak Discharge Current (2min 25℃)		125A			
Peak Discharge Power (2min 25℃)		24.57kW	30.72kW	38.84kW	42.98kW
Recommended Depth of Discharge (DOD)		95%			
Charging Temp. Range(Cell)		From 0~55℃			
Discharging Temp. Range(Cell)		From -20~55℃			
Operating Ambient Temperature (Pack)		With heating module:-30~55℃ / No heating module:-20~55℃			
Cycle Life		≥8000@25℃			
Scalability		4S	5S	6S	7S
WIFI Module		Built-in			
Communication		CAN/ RS485			
IP Rating		IP65			
Recommended Humidity		5%~95%(No condensed water)			
Cooling Type		Natural cooling			
Color		White(optional)			
Installation		Stack-mounting			
Net Weight		227±4kg	283±5kg	339±6kg	395±7kg
Dimension (W*H*D)		620*680*400mm	620*850*400mm	620*1020*400mm	620*1190*400mm
Protection		Over-current/Over-voltage/Short circuit/Under-voltage/Over temperature			
Warranty		5/10 years* (optional)			
Certification		CE/UN38.3/IEC62619/IEC62477			

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

*Total Energy/Usable Energy measured under specific conditions by Uhome 0.2C CC-CV and based on recommended DOD(95%);




● Technical Specifications

Product Image			
Model	49.12kWh	55.26kWh	61.4kWh
Battery Type	Semi-solid state Prismatic		
Nominal Energy	49.12kWh	55.26kWh	61.4kWh
Usable Energy*	46.66kWh	52.49kWh	58.33kWh
Nominal Capacity	120Ah		
Nominal Voltage	409.6V	460.8V	512V
Operating Voltage	332.8~460.8V	374.4~518.4V	416~576V
Under Lead-acid Mode	Recommended Current	50A	
	Recommended Voltage	384~441.6V	432~496.8V
Recommended Charge&Discharge Current	80A/100A		
Max Charge/Discharge Current	120A/120A		
Peak Discharge Current (2min 25℃)	125A		
Peak Discharge Power (2min 25℃)	49.12kW	55.26kW	61.4kW
Recommended Depth of Discharge (DOD)	95%		
Charging Temp. Range(Cell)	From 0~55℃		
Discharging Temp. Range(Cell)	From -20~55℃		
Operating Ambient Temperature (Pack)	With heating module:-30~55℃ / No heating module:-20~55℃		
Cycle Life	≥8000@25℃		
Scalability	8S	9S	10S
WIFI Module	Built-in		
Communication	CAN/ RS485		
IP Rating	IP65		
Recommended Humidity	5%~95%(No condensed water)		
Cooling Type	Natural cooling		
Color	White(optional)		
Installation	Stack-mounting		
Net Weight	451±8kg	507±9kg	563±10kg
Dimension (W*H*D)	620*1360*400mm	620*1530*400mm	620*1700*400mm
Protection	Over-current/Over-voltage/Short circuit/Under-voltage/Over temperature		
Warranty	5/10 years* (optional)		
Certification	CE/UN38.3/IEC62619/IEC62477		

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

*Total Energy/Usable Energy measured under specific conditions by Uhome 0.2C CC-CV and based on recommended DOD(95%);

● Technical Specifications

Product Image			
Model	67.54kWh	73.68kWh	79.82kWh
Battery Type	Semi-solid state Prismatic		
Nominal Energy	67.54kWh	73.68kWh	79.82kWh
Usable Energy*	64.16kWh	69.99kWh	75.82kWh
Nominal Capacity	120Ah		
Nominal Voltage	563.2V	614.4V	665.6V
Operating Voltage	457.6~633.6V	499.2~691.2V	540.8~748.8V
Under Lead-acid Mode	Recommended Current	50A	
	Recommended Voltage	528~607.2V	576~662.4V
Recommended Charge&Discharge Current	80A/100A		
Max Charge/Discharge Current	120A/120A		
Peak Discharge Current (2min 25℃)	125A		
Peak Discharge Power (2min 25℃)	67.54kW	73.68kW	79.82kW
Recommended Depth of Discharge (DOD)	95%		
Charging Temp. Range(Cell)	From 0~55℃		
Discharging Temp. Range(Cell)	From -20~55℃		
Operating Ambient Temperature (Pack)	With heating module:-30~55℃ / No heating module:-20~55℃		
Cycle Life	≥8000@25℃		
Scalability	11S	12S	13S
WIFI Module	Built-in		
Communication	CAN/ RS485		
IP Rating	IP65		
Recommended Humidity	5%~95%(No condensed water)		
Cooling Type	Natural cooling		
Color	White(optional)		
Installation	Stack-mounting		
Net Weight	619±11kg	675±12kg	731±13kg
Dimension (W*H*D)	620*1870*400mm	620*2040*400mm	620*2210*400mm
Protection	Over-current/Over-voltage/Short circuit/Under-voltage/Over temperature		
Warranty	5/10 years* (optional)		
Certification	CE/UN38.3/IEC62619/IEC62477		

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

*Total Energy/Usable Energy measured under specific conditions by Uhome 0.2C CC-CV and based on recommended DOD(95%);

LFP 16076

LiFePO₄ Battery ESS



Stack Mounted

Ground Mounted



Easy to move with wheels

PRODUCT FEATURES

MODULAR DESIGN

Free combination of solutions, suitable for both **INDUSTRIAL, COMMERCIAL,** and household use.

≥8000
Cycle Life@25°C

Voltage Wake-up
Under off-grid System Environment

Voltage Balancing
Voltage Balancing between Battery Cells&Battery Pack

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 power usage and battery pack operation

Parallel& Series
Support 16 Parallel&12 Series Connection

Voltage Balancing
Voltage Balancing between Battery Cells&Battery Pack

Technical Specifications

Product Image		
Model		LFP 16076
Battery Type		LiFePO ₄ Prismatic
Nominal Energy		16.076kWh
Usable Energy*		14.9kWh
Nominal Capacity		314Ah
Nominal Voltage		51.2V
Operating Voltage		48~56V
Under Lead-acid Mode	Recommended Current	100A
	Recommended Voltage	48~55.2V
Recommended Charge&Discharge Current		150A/150A
Max Charge/Discharge Current		200A/200 A
Peak Discharge Current		250A(3S)
Peak Discharge Power		12kW(3S)
Recommended Depth of Discharge (DOD)		93%
Charging Temp. Range		From 0~55°C
Discharging Temp. Range		From -10~55°C
Cycle Life		≥8000@25°C
Scalability		16 Parallel/12 Series
WIFI Module		Uhome
Communication		CAN/ RS485
IP Rating		IP20
Recommended Humidity		5%~95%(No condensed water)
Cooling Type		Natural cooling
Color		White(Optional)
Installation		Rack Mounted/Ground Mounted
Net Weight		116kg
Dimension(L*W*D)		855*450*235mm
Protection		Over-current/Over-voltage/Short circuit/Under-voltage/Over temperature
Heating Module		Optional
Fire Protection		Built-in aerosol
Warranty		5/10 years* (optional)
Certification		CE/UN38.3

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

*Total Energy/Usable Energy measured under specific conditions by Uhome 0.2C CC-CV and based on recommended DOD(93%);

Pioneer Solid-State Lithium-ion Battery ESS



16076SM/S

- High-performance high-voltage storage system.
- Modular design for ultimate flexibility.
- Suitable for a wide range of applications.
- Expandable up to 208.988kWh(13S) capacity.

PRODUCT FEATURES



Ultra safe with solid-state battery cells



Built-in fire extinguishing system(optional)



SOC balancing between clusters



Easy installation:save time and costs



Flexible expansion: up to 8 clusters in parallel


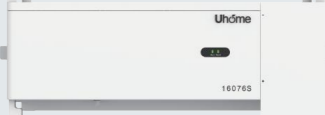


Built-in intelligent BMS



WAN Port in additon to WIFI

● Technical Specifications

Battery Module Image		
Model	LFP 16076SM	LFP 16076S
Battery Type	Semi-solid state Prismatic	
Nominal Energy	16.076kWh	
Usable Energy*	14.95kWh	
Nominal Capacity	314Ah	
Nominal Voltage	51.2V	
Operating Voltage	48~56V	
Recommended Charge&Discharge Current	150A/150A	
Peak Discharge Current (2min 25℃)	175A	
Peak Discharge Power (2min 25℃)	8.96kW	
Recommended Depth of Discharge (DOD)	93%	
Charging Temp. Range	From 0~55℃	
Discharging Temp. Range	From -20~55℃	
Cycle Life	≥8000@25℃	
Scalability	1 Master series	Up to 12Slave series
WIFI Module	Uhome	
Communication	CAN/ RS485	
IP Rating	IP65	
Recommended Humidity	5%~95%(No condensed water)	
Cooling Type	Forced cooling	
Color	White(optional)	
Installation	Stack-mounting	
Net Weight	125kg	
Dimension (W*H*D)	755*465*270mm	
Protection	Over-current/Over-voltage/Short circuit/Under-voltage/Over temperature	
Heating Module	Yes	
Balancing Module	Yes	
Fire Protection	Built-in aerosol(optional)	
Warranty	10 years*	
Certification	CE/UN38.3/IEC62619/IEC62477	

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

*Total Energy/Usable Energy measured under specific conditions by Uhome 0.2C CC-CV and based on recommended DOD(95%);

● Reference scheme wiring diagram

Wiring diagram for 12 units (divided into 2 piles)

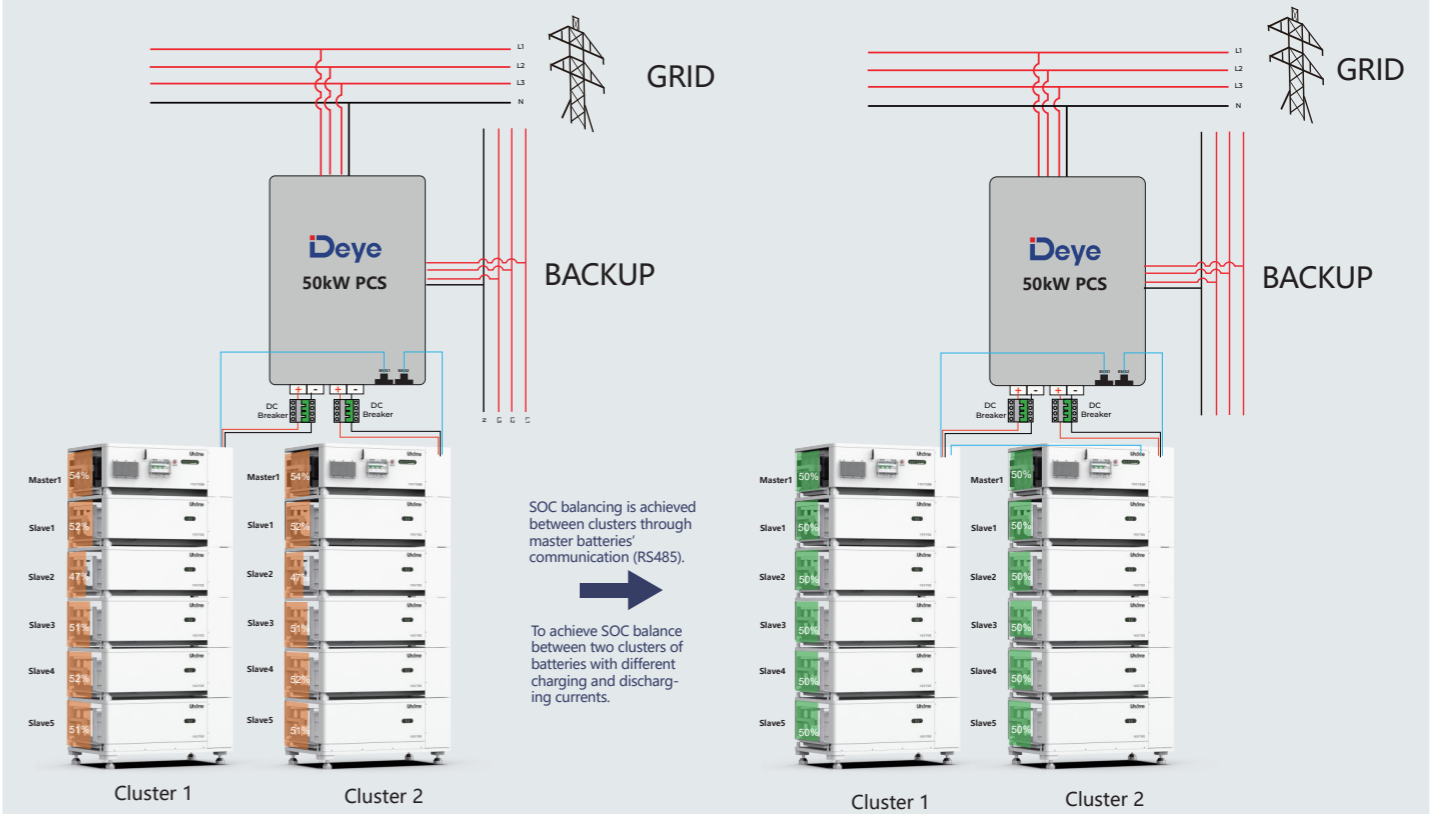


Wiring diagram for 12 units (divided into 3 piles)



● Product Advantages

SOC Balancing Between Clusters



NOTICE:

In the case of multiple cluster batteries, the universal wiring for parallel operation of the host is shown in the following figure:



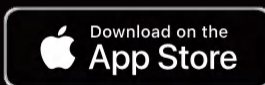
Intelligent Monitoring System

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 **UHOMEEN-ERGY** 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!



Delivering Smart, Clean Energy !

Case Collection:

