

3.6/5.0/6.0kW Single Phase Inverter LFP 5.4-16.2 kWh

High conversion efficiency

MPPT efficiency can reach up to 99.9%

Auto wake up

Photovoltaic can start in the dark

Scalability and Flexibility

Support up to 6 pcs inverters in parallel

Intuitive LCD touch screen

User-friendly and more visible

SOC calibration

Mandatory one click SOC calibration

Versatile configuration

Support parallel connection of three phases



PRODUCT FEATURES



6000

Cycle Life@25°C



1.5C

Faster charging & Discharging



120A(3S)/150A(3S)

Peak discharge current



93%

Max Recommended DOD (Capacity)



Solid-State

Battery Cells better safety



6/12/18kW

Peak Power



No DIP Switch

Easy for commission



IP 65

Can be used both indoors & outdoors

● Technical Specifications

Product Image			
Model	5427S(*1)	5427S(*2)	5427S(*3)
Battery Type	Semi-solid state pouch		
Nominal Energy	5.4kWh	10.8kWh	16.2kWh
Usable Energy	5.0kWh	10.0kWh	15.0kWh
Nominal Capacity	106Ah	212Ah	318Ah
Nonimal Voltage	51.2V		
Operating Voltage	48~56V		
Recommended Charge&Discharge Current	50A/50A	80A/80A	
Nominal Charge/Discharge Current	60A/60 A	100A/100 A	
Peak Discharge Current	120A(3S)	150A(3S)	
Peak Discharge Power	6kW(3S)	7.5kW(3S)	
Recommended Depth of Discharge (DOD)	93%		
Charging Temp. Range	From 0~55 °C		
Discharging Temp. Range	From -20~55 °C		
Cycle Life	>6000@25 °C		
Scalability	As a battery pack,it can expand up to 16 parallel connection, but as an all-in-one system, it can only expand up to 6 parallel connection		
WIFI Module	Uhome		
Communication	CAN/ RS485		
IP Rating	IP65		
Recommended Humidity	5%~95%(No condensed water)		
Cooling Type	Natural cooling		
Color	White(optional)		
Installation	Ground Installation		
Net Weight	53kg	106kg	159kg
Dimension	650*410*200mm	650*820*200mm	650*1230*200mm
Protection	Over-current/Over-voltage/Short circuit/ Under-voltage/Over temperature		
Warranty	10 years*		
Certification	UN38.3/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

● Technical Specifications

Product Image			
Model	Uhome-HB-1P3K6L1	Uhome-HB-1P5K0L1	Uhome-HB-1P6K0L1
Input data (PV)			
Max. recommended PV power	5000W	6600W	6600W
Max. DC voltage	500 Vd.c.		
MPPT voltage range	120~450V		
No. of MPPT trackers/ No. of PV strings per MPPT tracker	2/1		
Max. input current per MPPT tracker	13A*2		
Max. short-circuit current 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	30A
Max. output short - circuit current	455A&4ms		
Max. output protection current	25A	30A	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 III		
Backup power(AC)			
AC nominal voltage	220Vac/230Vac/240Vac		
Rate of recurrence	50Hz/60Hz		
Rated current	18A	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		

● Technical Specifications

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 (optional)	

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

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