

## Energy Storage System All in one Series

LFP 4.8-19.2 kWh



Visual interface,  
real-time monitoring  
of product status



High energy density



User data security



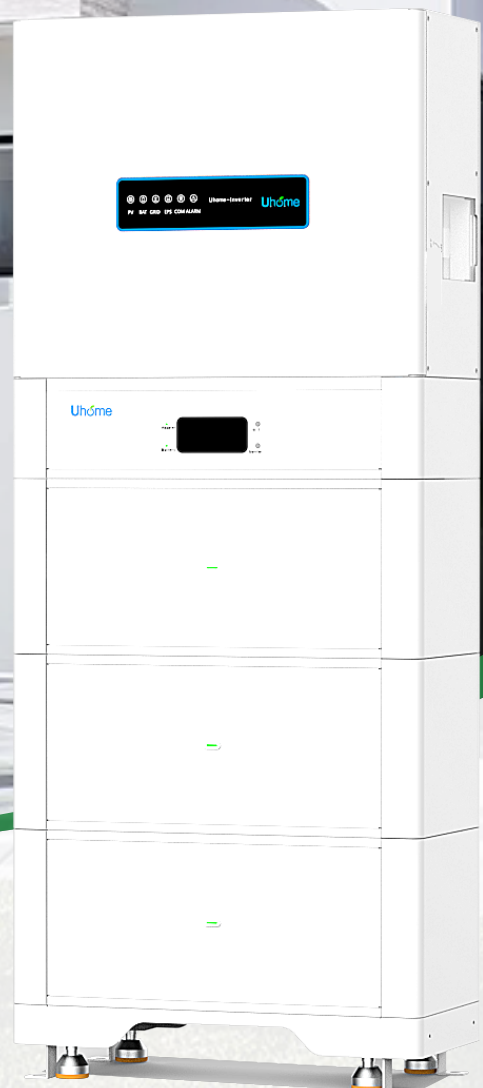
Easy installation &  
After Sales Service



>6,000 Cycles  
at 90% DOD



Remote software program  
update, fault diagnosis



Tel: +86-510-88998080

Email: [marketing@uhomeenergy.com](mailto:marketing@uhomeenergy.com)

Web: [www.uhomeenergy.com](http://www.uhomeenergy.com)

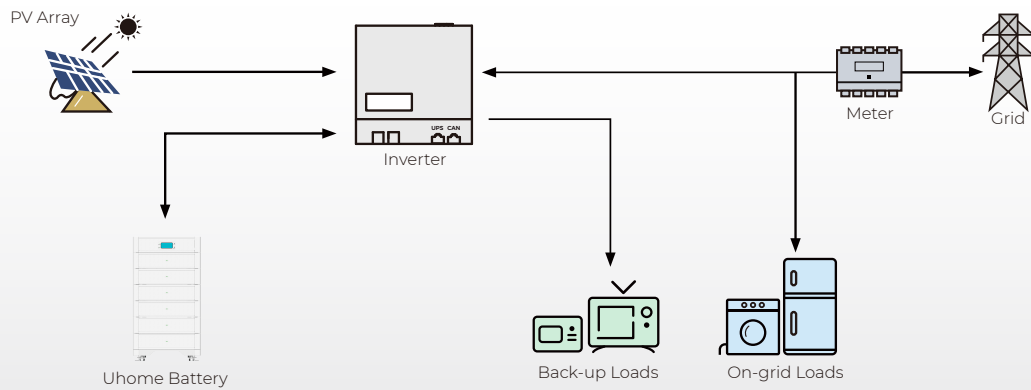
Get Fast Delivery

## 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.

# Technical Specifications



Product Type	LFP 4.8-19.2 kWh			
Technical Specifications				
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℃			
Charge Temperature	From 0~50℃			
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			
Certifications	CE/UL 1973/IEC 62619/IEC62477/IEC 62040/MSDS/UN 38.3			