

# Uhome-CIS 60kWh

## Industrial & Commercial Storage Cabinet

### Flexible Expansion

Maximum support for 8 machines in AC parallel, expandable to 0.48MWh;

### IP54

Resistant to outdoor installation with strong environmental adaptability;

### Smart BMS

Automatic balancing between packs.



## PRODUCT FEATURES



### Safe&Reliable

Equipped with multiple protection mechanisms such as fire protection, surge protection, circuit breakers, relays, etc;



### Economical

Pre-made machine delivered as a whole for easy transportation& installation& maintenance, saving up to 15% in costs.



### Minimalist

Front and rear double door design, compact structure, clear and simple layout, resulting in high space utilization.



### Intelligent

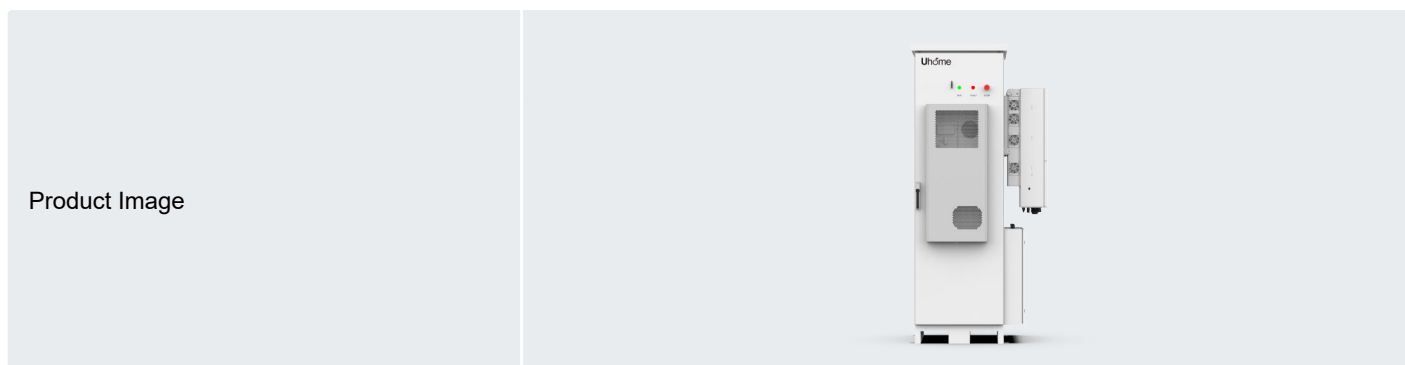
Platform supports remote monitoring& maintenance& intelligent balancing strategy for battery life cycle consistency& revenue improvement.



### Usability

Integrated distribution box, easier to use and convenient for later maintenance.

## ● Technical Specifications



Model	60kWh/51.2V/100Ah(LFP 5000SM/M)	60kWh/614.4V/100Ah
Battery Type	LiFePO4 Prismatic	
Nominal Energy	5.12kWh	61.44kWh
Usable Energy*	4.7kWh	57.1kWh
Nominal Capacity	100Ah	
Nominal Voltage	51.2V	614.4V
Operating Voltage	48~56V	576~672V
Recommended Charge&Discharge Current	50A/50A	
Max Charge/Discharge Current	80A/80 A	
Peak Discharge Current	200A(3S)	
Peak Discharge Power	10kW(3S)	120kW(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	1 Parallel/12 Series	8 Parallel
WIFI Module	Uhome	
Communication	CAN	CAN/RS485
IP Rating	IP20	IP54
Recommended Humidity	5%~95%(No condensed water)	
Cooling Type	Forced air cooling	Air Condition cooling
Color	White(optional)	
Installation	Rack Installation	Ground Installation
Net Weight	56±2kg	950±2 kg
Dimension(L*W*H)	442*133*618mm	1000*850*2045mm
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(93%).

It is recommended to configure the inverter by yourself and choose Solis 50kW three phase inverter as an option.

## ● Technical Specifications



Models	30K	40K	50K
<b>Input DC(PV side)</b>			
Recommended Max.PV Array Size	60kW	80kW	100kW
Max. usable PV Input Power	60kW	80kW	96kW
Max. Input Voltage	1000V		
Rated Voltage	600V		
Start-up Voltage	180V		
MPPT Voltage Range	150~850V		
Max. Input Current	3*40A	4*40A	
Max. Short Circuit Current	3*60A	4*60A	
MPPT Number/Max. Input Strings Number	3/6	4/8	
<b>Battery</b>			
Battery Type	Li-ion		
Battery Voltage Range	120~800V		
Max. Charge/Discharge Power	33kW	44kW	55kW
Max. Charge/Discharge Current	70A*2		
No. of Cattery Inputs	2		
Max. charge/discharge power of each input□	33kW	40kW	40kW
Communication	CAN/RS485		
<b>Output AC(Grid side)</b>			
Rated Output Power	30kW	40kW	50kW
Max. Apparent Output Power	30kVA	40kVA	50kVA
Rated Grid Voltage	3/N/PE,220V/380V 3/N/PE,230V/400V		
Rated Grid Frequency	50Hz/60Hz		
Rated Grid Output Current	45.6A/43.3A	60.8A/57.7A	76A/72.2A
Max. Output Current	45.6A/43.3A	60.8A/57.7A	76A/72.2A
Power Factor	>0.99(0.8 leading ~0.8 lagging)		
THDi	<3%		
<b>Input AC(Grid side)</b>			
Max. AC Passthrough Current	91.2/86.6A	121.6A/115.4A	152A/144.4A
Rated Input Voltage	3/N/PE,220V/380V 3/N/PE,230V/400V		
Rated Input Frequency	50Hz/60Hz		
<b>Output AC(Back-up)</b>			
Rated Output Power	30kW	40kW	50kW
Max. Apparent Output Power	1.6 times of rated power, 2s		
Back-up Switch Time	<10ms		
Rated Output Voltage	3/N/PE,220V/380V 3/N/PE,230V/400V		
Rated Frequency	50Hz/60Hz		
Rated Output Current	45.6A/43.3A	60.8A/57.7A	76A/72.2A
THDv(@linear load)	<2%		

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Models	30K	40K	50K
<b>Efficiency</b>			
Max. efficiency		97.8%	
EU efficiency		97.4%	
BAT Charged by PV Max. efficiency		98.5%	
BAT Charged/Discharged to AC Max. efficiency		97.5%	
<b>Protection</b>			
Anti-islanding Protection		Yes	
Output Over Current Protection		Yes	
Short Circuit Protection		Yes	
Integrated DC Switch		Optional	
DC Reverse-polarity Protection		Yes	
Surge Protection		DC Type II / AC Type II	
Integrated AFCI (DC arc-fault circuit protection)		Yes	
<b>General Data</b>			
Dimensions(W*H*D)		530*880*290 mm	
Weight		73kg	
Topology		Transformerless	
Self-consumption(night)		<25W	
Operating Ambient Temperature Range		-25~+60 C	
Relative Humidity		0~95%	
Ingress Protection		IP66	
Noise		<65dB(A)	
Cooling Concept		Interlligent Redundant Fan-cooling	
Max. Operation Altitude		4000m	
Grid Connection Standard	EN 50549-1, VDE4105 CEI 0-21, CEI 0-16, NC-RFG TypeB, NRS 097-2-1 ED 2.1		
Safety/EMC Standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1, IEC 61000-2		