

Uhome-CIS 240kWh

Industrial & Commercial Storage Cabinet



Flexible Expansion

Maximum support for 8 machines in AC parallel, expandable to 1.92MWh;

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

| Product Image |  | |
|--------------------------------------|--|-------------------------|
| Model | 240kWh/64V/314Ah | 240kWh/384V/314Ah |
| Battery Type | LiFePO4 Prismatic | |
| Nominal Energy | 20.096kWh | 241.152kWh |
| Usable Energy* | 18.6kWh | 224.2kWh |
| Nominal Capacity | 314Ah | |
| Nominal Voltage | 64V | 768V |
| Operating Voltage | 60~70V | 720~840V |
| Recommended Charge&Discharge Current | 100A/100A | |
| Max Charge/Discharge Current | 150A/150 A | |
| Peak Discharge Current | 200A(3S) | |
| Peak Discharge Power | 12.8kW | 150kW |
| Recommended Depth of Discharge (DOD) | 90% | |
| Charging Temp. Range | From 0~55 ℃ | |
| Discharging Temp. Range | From -10~55 ℃ | |
| Cycle Life | >6000@25 ℃ | |
| Scalability | 12 Series | 8 Parallel |
| WIFI Module | Uhome | |
| Communication | daisy-chain | CAN/ RS485 |
| IP Rating | IP20 | IP54 |
| Recommended Humidity | 5%~95%(No condensed water) | |
| Cooling Type | Natural cooling | |
| Color | White | |
| Installation | Ground Mounting | |
| Net Weight | 145±2kg | 2340kg(Include Cabinet) |
| Dimension(L*W*H) | 893*387*243mm | 1370*1350*1860mm |
| Protection | Over-current/Over-voltage/Short circuit/ Under-voltage/Over temperature | |
| Warranty | 5/10 years(optional)* | |
| Certification | UN38.3/CE/IEC62619 | |

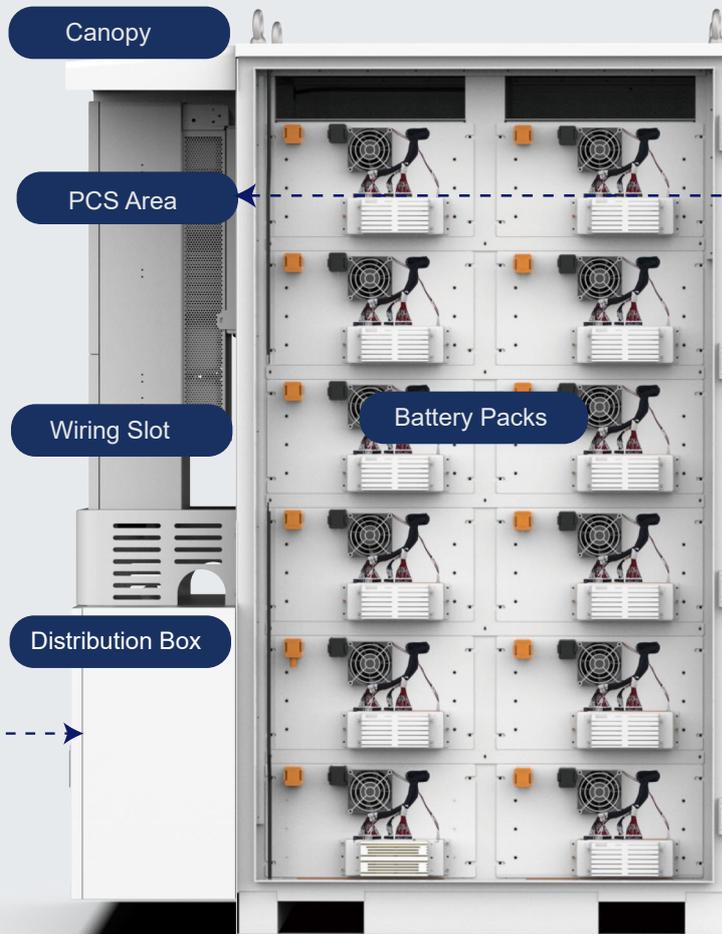
Testing conditions based on temperature 25℃ at the beginning of life.

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

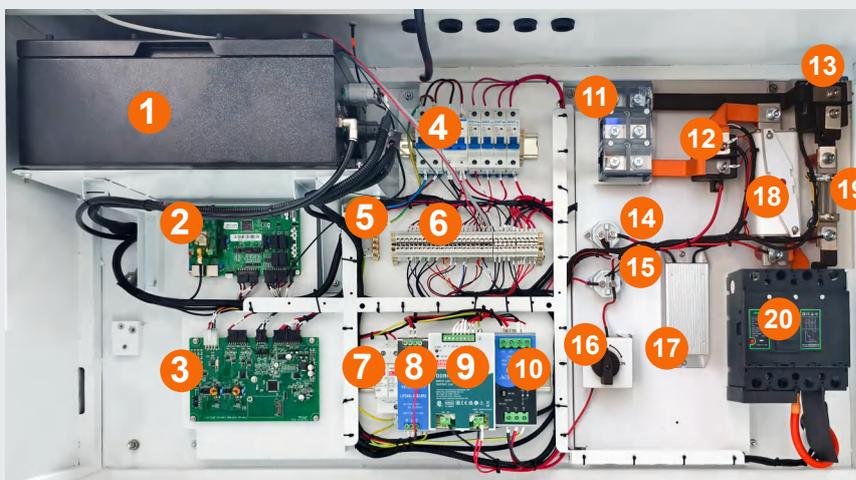
Internal Structure Description

Dimension(Cabinet): 1370*1350*1860mm
 Dimension(Single Battery): 893*387*242mm

Weight(Cabinet): 600kg
 Weight(Single Battery): 145kg



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



- 1→Fire protection
- 2→RTC
- 3→BCU
- 4→Circuit Breaker
- 5→Ground Terminal Block
- 6→Wiring Terminal Block
- 7→Surge Protector
- 8→AC/DC Power Supply
- 9→DC/DC Power Supply
- 10→Redundant Module
- 11→PACK Terminal Block
- 12→Main Positive Relay
- 13→Main Negative Relay
- 14→Pre-charge Relay
- 15→DC/DC Relay
- 16→Switch
- 17→Pre-charge Resistor
- 18→Fuse
- 19→Shunt Device
- 20→DC Relay

● Technical Specifications



| Models | 30K | 40K | 50K |
|--|--------------------------------------|---------------|-------------|
| Input DC(PV side) | | | |
| 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 | |
| Battery | | | |
| 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 | | |
| Output AC(Grid side) | | | |
| 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% | | |
| Input AC(Grid side) | | | |
| 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 | | |
| Output AC(Back-up) | | | |
| 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% | | |

● Technical Specifications



| Models | 30K | 40K | 50K |
|---|--|------------------------------------|-----|
| Efficiency | | | |
| 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% | |
| Protection | | | |
| 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 | |
| General Data | | | |
| 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 | | |

JOIN US

Tel#

+86-510-88998080

E-mail#

marketing@uhomeenergy.com

Web#

www.uhomeenergy.com

Address#

No.1 Qianluo Rd,Huishan District,Wuxi City