

## Balcony All-in-one Energy Storage System



**>94%**

Discharging efficiency of battery's useable energy is over 94%

**0W**

Anti-reflux power accuracy is 0W

**<30mins**

Installation time is less than 30mins

**2400W**

Output of UPS is maximum 2400W

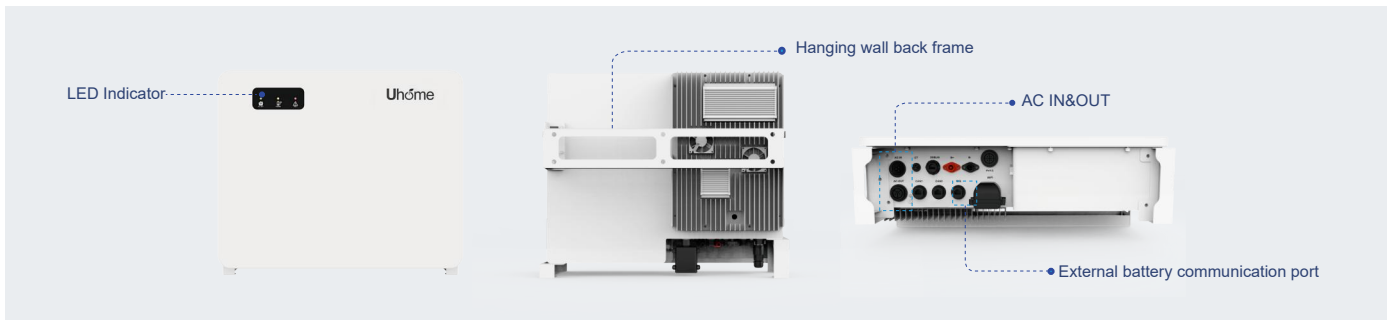
**<10ms**

The instantaneous UPS switch over less than 10ms, critical load never loses power

**Balcony/RV/Camping**

Multi scenarios

## ● Technical Specifications



Model	Uhome DINV024-B3	
<b>Basic Parameters</b>		
Nominal Power	2400W	
Peak Power	4800W	
Machine Architecture	Bidirectional AC/DC Inverter / Buck-boost MPPT	
Number of Input and Output Phases	Single Phase Input/Output	
<b>AC Output</b>		
AC Output Wiring	Single-phase, two-wire(L,N)+Ground wire	
Output Nominal Voltage	230 V	
Output Voltage Accuracy	±1%	
Output Frequency	50/60Hz	
Output Waveform	Pure Sine Wave	
Output Distortion THDV	< 2%(Linear load)	
	< 7%(Nonlinear load)	
Overload Capacity	5 Min@105%~120%Rated Load	
	10s@120%~150%Rated Load	
	5s@>150%Rated Load	
<b>Efficiency</b>		
Grid Charging	Max. 93% (Basic)	
Battery Discharge	Max. 94% (Basic)	
MPPT	99.9%	
PV Charge	Max. 95%	
Eco Mode	<13W(Dormancy,No Output); <30W(No Load)	
Shutdown Leakage Current	<100uA	
<b>AC Output(On Grid)</b>		
Output Wiring	Single-phase two-wire(L,N)+Ground wire	
Output Voltage	230 Vac	
Output Frequency	50/60Hz	
Input Power Factor	≥0.95	
<b>Battery and Charge</b>		
Nominal Capacity	2.56kWh	
Max Dis/Charge Depth	90%	
Nominal Battery Voltage	51.2V	
Battery Type	LiFePO <sub>4</sub>	

## ● Technical Specifications

Discharge Cut-off Voltage	49.6 V(Continuously Adjustable)
Charge Current	Maximum 50A ,Can Be Set Digitally,Default 25A
Protection Feature	Overload Protection, Over-Temperature Protection, Input Over-Voltage Protection, Input Under Voltage Protection, Over-Charge Protection, Over-Discharge Protection
<b>Solar Charge</b>	
PV Max Input Power	800W*2
PV Max Open-Circuit Voltage	100VDC
PV Operating Voltage Range	10-100VDC
PV Input Current	0-16A*2
<b>General Parameter</b>	
Grid-Connected Power	The grid-connected power can be set to 0~2400W (the default grid-connected power is less than 800W)
Parallel Connection Number	2-6pcs
Customer APP (WIFI Bluetooth Module Customer)	Mobile APP manages and controls grid-connected time and power, on-grid standard selection, etc
Communication Interface	WIFI/CAN
LED Indicator	Operating status: AC/OUT 、 CHARGE、 FAULT
Software Update	Remote/Local
Operating Temperature Range	Normal full power working environment temperature -10-45 ℃ , above 45 ℃ , the power will be derated to 55 ℃ before shutting down
Operating Humidity Range	0-98%(No Condensation)
Cooling Method	Forced air cooling
IP Rating	IP65
Dimension	569*460*165 mm
Weight	33KG
Safety and Electromagnetic Compatibility Standards	IEC62619/IEC63056/VDE2510-50/ICE/EN62109/EN300328/EN300386/EN50549-1/VDE4105and Other Relevant European Standard
<b>Work Mode</b>	
Self-consumption Mode (allow feeding, prohibit feeding - enable feeding)	<p>A/ PV priority: Priority is given to load supply, excess energy is used to charge the battery, and the remaining energy is fed back to the grid;</p> <p>B/When the photovoltaic energy is insufficient, the battery will be prioritized for compensation, followed by the supply of mains electricity.</p> <p>Notes:</p> <p>A/ Self-consumption mode (allow feeding, prohibit feeding - enable feeding);</p> <p>B/ When two modes are used together ,in case of conflict between self-consumption mode and time-of-use mode , the latter takes priority).</p> <p>The selection of feeding countries corresponds to different feeding power levels in different countries.</p>
Off-grid Mode(UPS)	<p>Grid supplies the power to loads directly, automatically switchover UPS supply when the grid outage(&lt;10ms).</p> <p>A/ Discharge: Photovoltaic priority, insufficient photovoltaic energy, battery compensation, followed by grid supplementation;</p> <p>B/ Charging: Photovoltaic priority, insufficient photovoltaic energy, compensation for mains charging.</p> <p>Germany has a feeding power of 800W, while other countries have a feeding power of 1600W.</p>

## ● Recommended Battery Expansion Scheme

### Uhome-5120MPlus(Solid-state battery)



### Assembly Method



Customized expansion battery designed for balcony all-in-one ESS,  
please consult our company if you need it.