

RESIDENTIAL ENERGY STORAGE SOLUTIONS
All-In-One UHOO Series



SEMOKII®, AN MPMC BRAND



Portable Power Stations



Residential Energy Storage Solutions



Lithium Battery Packs



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SEMOKII BESS CO., LTD.
For Brighter, Safer And More Beautiful Life

WHY WE NEED ENERGY STORAGE SYSTEM?



Save the planet

If you have troubles of taking full use of your solar system, and want to use more clean energy to become more environmental friendly.



Be power independent

When power outage occurs, whatever you are doing, like laundering, partying or car-charging has to stop.

Friendly to appliances

Improve the utility grid quality, and be friendly to your home appliances.



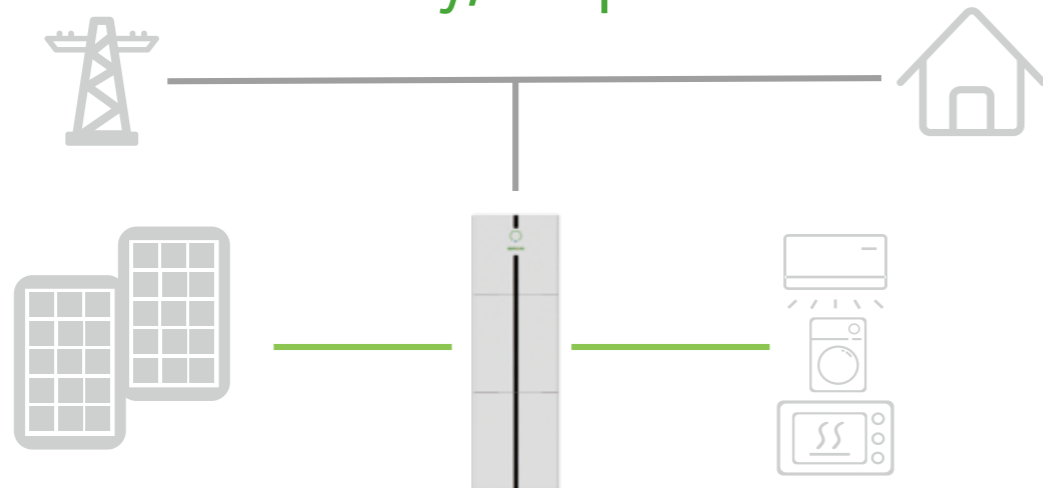
Maximize your savings

If you want to save money by reducing your electricity bills to pursue more important things.



Home Battery Storage System

So easy, So quick

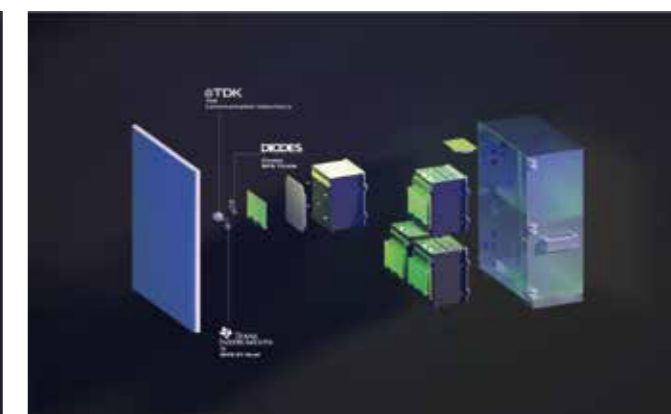
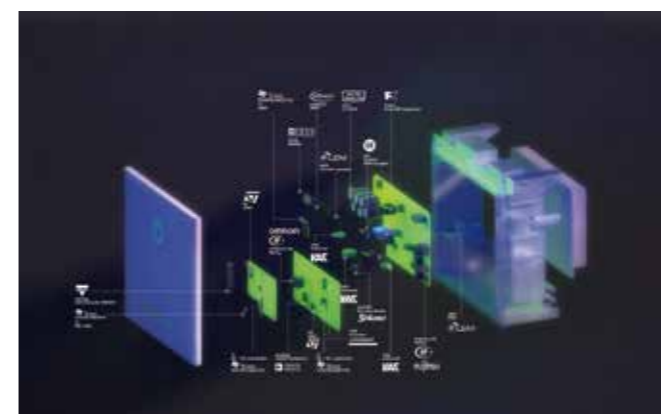


All in One, One for All

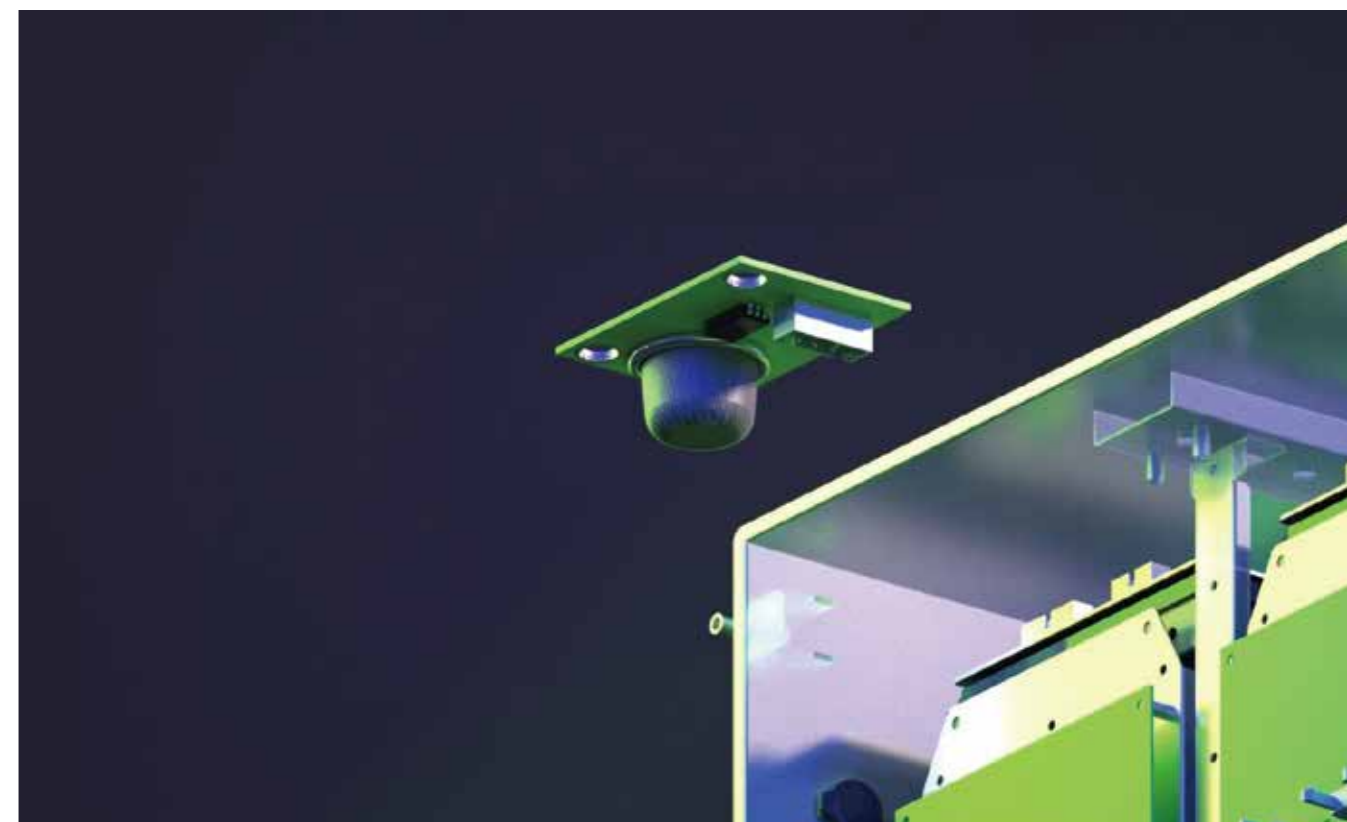
LiFePO₄, best for residential storage system

UH00: All in One, One for All

We choose first-class suppliers!



Active detection to prevent failures and danger!
First used in residential BESS



UHOO: All in One, One for All



- High system power density, with 89Wh/kg .
- Battery preinstalled, more convenient for on-site installation.
- No more other accessories.



- UPS level provide backup power
- Switching time < 10ms - Make you feel no perception of power outages



- Noise < 25db
Super quiet, in and out .
Enjoy your life



- IP65
Choose the place you want to install
Balcony, garage, home wherever is ok

More efficient More resilient Improved temperature cycle

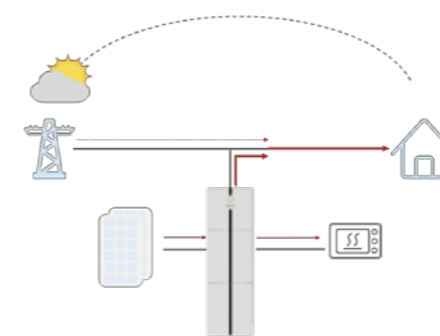
What can UHOO Series do?

Mode A: Self - Power

Even there is no sunlight, you can still use the stored clean energy day and night.

Normally, the clean energy generated by your solar system can be almost used up by your home rather than fed into the utility grid. In this way, you are making more contribution to reduce the carbon emission. Besides, you can save money by less using the peak hour electricity.

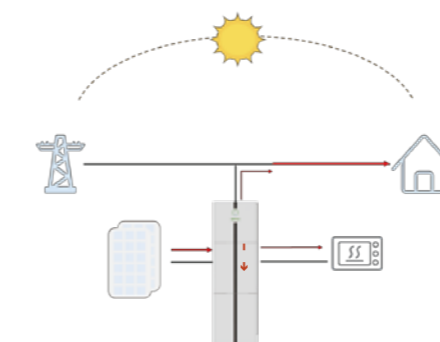
Maximize the use of the clean energy.



Not too much sunlight
in morning, at dusk, in bad weather or high home energy needs

When there is not enough solar power to support home energy consumption, battery will discharge by UHOO Series to meet power needs, using the stored energy till fully consumed.

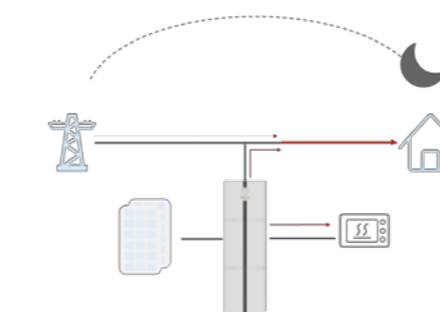
And if the solar panels and battery still can't cover the energy consumption, the utility grid will be used.



Sunny time
at noon, or low home energy needs

When there is enough solar power to support home energy consumption, the extra solar power will be charged to the battery in UHOO Series later use.

And if the battery is fully charged, the solar energy will be fed into the utility grid.



No sunlight
at night or cloudy days

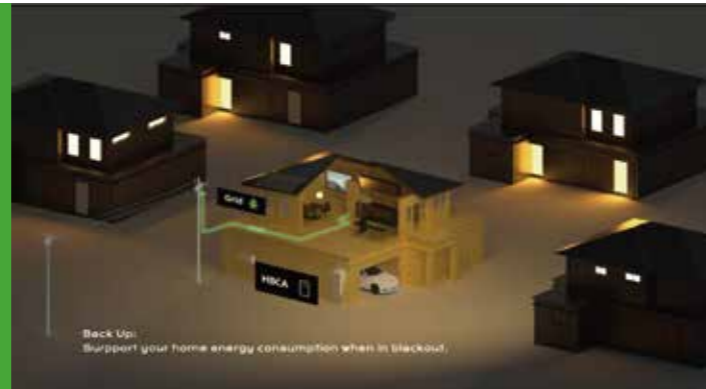
When at night or in cloudy days, the solar panels can't generate any power, the battery in UHOO Series will discharge to support your home energy needs.

And if the your home energy needs is high, the utility grid will help.

What can UHOO Series do?

Mode B: Back up

The switching time less than 10ms allows your appliances uninfluenced. Just keep focusing on your things.



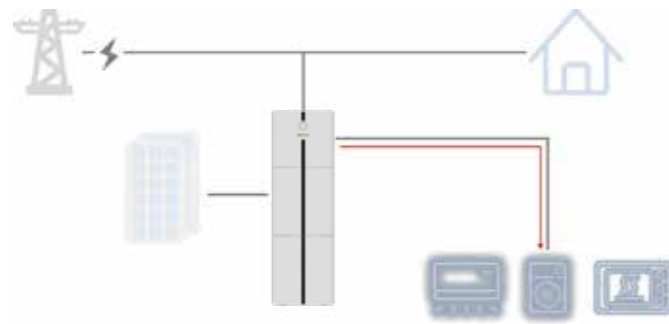
Mode C: Load shifting

Always using the cheaper energy from the utility grid, and saving money everyday.



We can imagine how bad it is when some unexpected power outages happen, especially when you are enjoying family time with your children, having party with your friends, or doing important work. Back up function is absolutely important for such accidents. And it is real with UHOO Series that in whichever mode, it always protect you from this situation.

No worry about days without power.



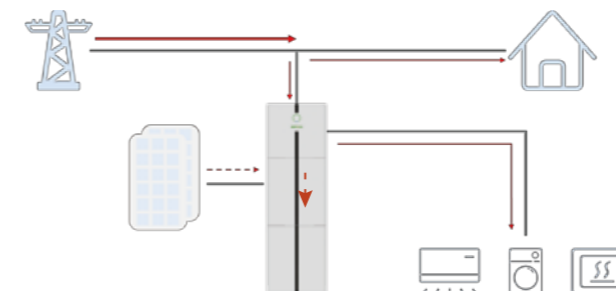
Power outage at night or cloudy days

When a power outage occurs, your important appliances connected to the UHOO Series EPS port will remain working until the stored energy is used up.

Usually 10kWh capacity will help you get through a whole day.

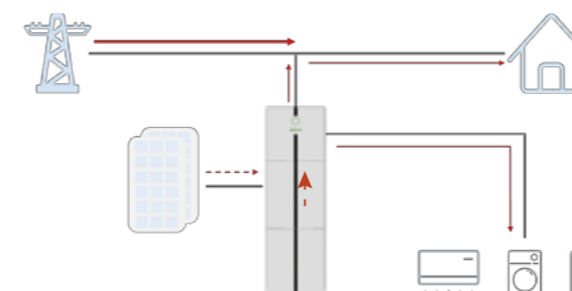
Always make sure that you use the cheaper energy

Off-peak hour: charge from the grid



When you choose load shifting mode, you can use cheaper power UHOO Series. UHOO Series will charge battery at off peak hour when the electricity price is low.

Peak hour: discharge to the house



Furthermore, UHOO Series will discharge to meet your home energy needs at peak hour when the electricity price is high. In this case, you can always use the power at a lower price.

Still, the EPS will work when there is an outage.

Enest The master of your home energy



Energy access View energy usage in real time

Let every second of energy use be mastered.



History



Energy heatmap



Notice



Insight Insights into home energy use.

The insight will let you know more about how your home energy is consumed, like whether energy is being wasted.

Better improve your behaviors to reduce carbon emissions and save the planet.

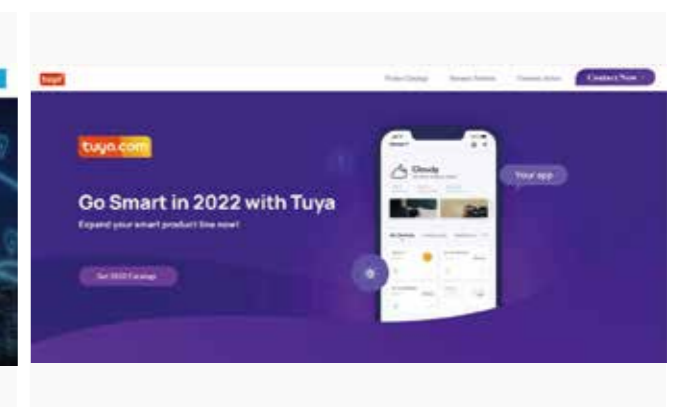
Other services

Carbon Track Collaboration
VPP

Tuya
AIOT

Customize Customize as you like.

Self-powered (by default), Load shifting and Back up modes, choose the best one for you.



UHO0 Series

Home Battery Energy Storage System



Product Introduction

UHO0, a hybrid all in one BESS, compatible with high voltage LFP battery system, can achieve the best function to maximize clean solar power usage for your home.

Convenient

Heat stimulation for the best layout

Quiet

Less than 25 db, no noise pollution

Flexible

IP65 up to 6kW, 5/10kWh optional

Adaptative

Self-power, backup, and load shifting modes

Independent

No additional modules and inverters are required

Smart

Support VPP and AIOT

- UHO0 will store photovoltaic or grid energy. If there is not enough solar energy to support consumption, the battery will be discharged by UHO0 to meet the power demand.
- Autonomous strategy.

Technical parameters

Model	HBCA-3, 6-5 HBCA-3.6-10	HBCA-4, 6-5 HBCA-4.6-10	HBCA-5-5 HBCA-5-10	HBCA-6-5 HBCA-6-10
PV Input				
Absolute max Voltage (d.c.V)			600	
MPPT Voltage Range (d.c.V)			100...550	
Max DC Input Power (W)	4800	6200	6650	8000
Start-up Voltage (d.c.V)			90	
Rated Operating Voltage (d.c.V)			360	
Max Input Current (d.c.A)			12.5/12.5	
Max inverter backfeed current to array (d.c.A)			0	
Isc PV (d.c.A)			18/18	
NO.of MPPT Trackers			2	
NO.of Strings per MPPT Tracker			1	
Battery Model				
Battery Capacity	MF20425		MF40925	
LifePO4 5.12kWh			LifePO4 10.24kWh	
Nominal Battery Voltage (d.c.V)	204.8		409.6	
Battery Voltage Range (d.c.V)	160...227.2		320...454.4	
Max Charge/Discharge Current (d.c.A)			25/25	
Cycling times			6500	
AC Input/Output				
Rated output Power (W)	3600	4600	5000	6000
Rated Apparent Power to Grid (VA)	3600	4600	5000	6000
Max Apparent Power to Grid (VA)	3600	4600	5000	6000
Max Apparent Power from Grid (VA)	7200	9200	10000	12000
Rated Voltage (a.c.V)	220/230/240			
Rated Frequency (Hz)	50/60			
Rated AC Current to Grid (a.c.V)	15.6	20	21.7	26.1
Max output current (a.c.A)	17.2	22	23.9	28.7
Max Current from Grid (a.c.A)	31.2	40	43.4	52.2
Inrush current (a.c.A)	16 a.c.A (peak), 11.3 us (duration)			
Max output fault current (a.c.A)	57 (peak), 40 (rms)			
AC output Maximum output overcurrent protection (a.c.A)	40			
AC input power factor	-0.8...+0.8			
AC output power factor	1[-0.8...+0.8 adjustable]			
THDi	<3%			
EPS Output (With Battery)				
Max Output Power (W)	3600	4600	5000	6000
Rated Apparent Power (VA)	4320	5520	6000	7200
Max Apparent Power (VA)	4320	5520	6000	7200
Rated Voltage (a.c.V)	230 (±2%)			
Normal Frequency (Hz)	50/60 (±0.2%)			
Max Output Current (a.c.A)	18.8	24	26.1	31.3
Inrush current (a.c.A)	16 a.c.A (peak), 11.3 us (duration)			
Max output fault current (a.c.A)	57 (peak), 40 (rms)			
EPS output Maximum output overcurrent protection (a.c.A)	40			
Switch time (ms)	<10			
THDv @Linear Load (%)	<2			
Power Factor	-0.8...+0.8			
Efficiency				
PV Max Efficiency (%)	97.6			
PV Europe Efficiency (%)	97			
PV Max MPPT Efficiency (%)	99.9			
Battery Charge by PV Max Efficiency (%)	98			
Battery Discharge Efficiency (%)	96.7			
Protection				
Over/Under voltage protection	Yes			
DC isolation protection	Yes			
DC injection monitoring	Yes			
Residual current detection	Yes			
Anti-islanding protection	Yes			
Over load protection	Yes			
Battery Input reverse polarity protection	Yes			
PV reverse polarity protection	Yes			
Surge protection	Yes			
Over heat protection	Yes			
General Data				
Dimension (W/D/H)(mm)	MF20425		MF40925	
550*233*1125			550*233*1750	
Dimension of Packing (W/D/H)(mm)	655*302*1390		655*302*2085	
Net weight (kg)	68		115	
Gross weight (kg)	78		130	
Operation Temp (°C)	-10...+55			
Relative Humidity (%)	0...95			
Altitude (m)	≤3000			
Ingress Protection	IP65			
Cooling	Natural			
Inverter Topology	Non-Isolated			
Over voltage category	III(AC), II(DC)			
Protective class	Class I			
Active anti-islanding method	frequency shift			
Human Interface	LED/APP			
BMS Communication Interface	RS485/CAN			
Meter Communication Interface	RS485			
Noise Emission (dB)	<25			
Standby Power Consumption (W)	<5			
Safety and Approvals				
Safety	IEC62040.1:2019 IEC 62109-1&2 IEC62619 UN38.3 IEC60730-1 EN IEC 61000-6-2:2019 EN IEC 61000-6-3:2021			
EMC				
Country	AS/NZS 4777.2:2020 VDE-AR-N 4105:2018-11 MEA:2015 PEA:2016 EN 50549-2:2019 EN 50549-1+Poland deviation G99/1-6:2020 G98/1-6:2021 RD1699+UNE Distribution Code VDE0126+UTE C10/11: 2021			

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