HOUSEHOLD ENERGY STORAGE SYSTEM ALL-IN-ONE ENERGY STORAGE SYSTEM (ON-GRID)

Application Scenarios

Small household single-phase hybrid energy storage system, suitable for new installation or modification of photovoltaic energy storage system, AC 220V/230V output.

		220V 230V	
Single-phase On-grid Household	PV System Renovation	AC 220/230V	

Product Features

Intelligent And Easy To Use

- Optional 4G, WIFI or GPRS remote communication module,24-hour load monitoring.
- Compatible with lead-acid battery, lithium battery, gel battery, etc., with battery management function.

Safe And Efficient

- With short circuit, under-voltage, overload, anti-reflux, PV anti-reverse connection, and other safety protection functions.
- \odot With IP66 protection degree,it can be installed outdoors.
- The design is fanless and low noise.

Product Highlight

Powerful Function

- Equipped with uphill driving function, with higher load power and more types of loads.
- Independent multi-function generator interface,
- intelligent switching, saving additional investment.

Easy To Install

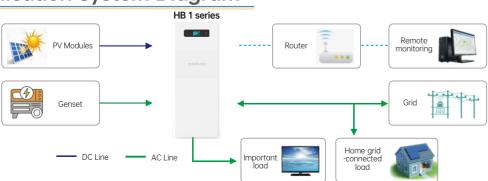
 Modular stacking design,plug and play,easy to install
Modular battery pack, supporting battery expansion, up to 20.48kWh.

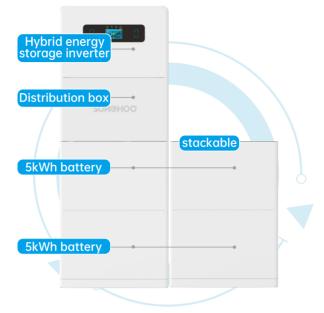
Novelty In Appearance

- 4.3-inch 65K color high-definition touch screen,rich content,friendly human-computer interface.
- The appearance is like a panda, lively and friendly.



Application System Diagram





Flexible And Efficient

- \odot Integrated MPPT controller,MPPT efficiency up to 99.9%.
- Multiple working modes to meet the needs of users in different scenarios: Self Use, Selling First, Back-Up Mode, Force Time Use, Composite Pattern.
- Three output modes:grid-connected,off-grid,and bypass.
- \odot It has the function of UPS, and the switching time <10ms.
- It has two anti-reflux functions

Strong Adaptability

Customizable design to meet different customer needs.
Power grid self-adaptation, supporting normal power generation under weak grid conditions.

Safe And Reliable

- O Charge and discharge current three-stage conversion, low current ripple, improving battery life.
- The grid port adopts a dual relay series scheme for multiple safety guarantees.
- Soft start function of battery, without starting impact current, protect the machine and battery.



HB1050EH48-5H ~ 1050EH48-20H SERIES

MODEL	HB1050EH48-5H	HB1050EH48-10H	HB1050EH48-15H	HB1050EH48-20H
Output				
Rated Output Power	5500VA/5000W			
Rated Output Voltage	220/230Vac			
Rated Output Frequency	50/60Hz(±5), Intelligent adaptive/Settable			
Rated Output Current	22.7A			
Max Grid-connected Viewing Power	5500VA			
DC Component	< 0.5% In			
Grid Type	Single-phase, L+N+PE			
Output Power Factor(cosΦ)	> 0.99 @ Rated power (Adjustable 0.8 leading~0.8 lagging)			
THDi	< 3%			
THDu	< 2%(Linear load)			
Transfer Time	10ms(Typical value)			
Off-grid Overload Capability	100%-110% 3min , 110%-125% 1min , >125% 10S			
Battery				
Battery Type	LiFePO4			
Battery Rated Voltage	51.2V (16S)			
Battery Energy	5.12KWh	10.24KWh	15.36KWh	20.48KWh
Battery Capacity	100Ah	200Ah	300Ah	400Ah
Max Charing/Discharing Current	100A			
DOD	80%			
Designed Life-span	5000			
PV Input				
Max Input Power	6500W			
Max PV Open-circuit Voltage	550Vdc			
MPPT Input Voltage	370Vdc(90~500V)			
Max PV Input Current	13A+13A			
lumber of MPPT / Strings per MPPT	2/1+1			
Effciency				
Max PV Conversion Efficiency	97.6%			
European Efficiency	97.0%			
MPPT Efficiency	> 99%			
General Parameters				
Dimension. W*D*H(mm)	540*190*1300	540*190*1800	540*190*1300	540*190*1800
Weight (kg)	80kg	120kg	160kg	200kg
Communication Mode	RS485/CAN/DRM, Optional 4G/WIFI/GPRS			
Display	T ouch Screen+LED			
Surge Protection	DC Type II / AC Type III			
Operating Ambient Temperature	$-25^{\circ}C \sim 60^{\circ}C(>45^{\circ}C \text{ Derating })$			
Humidity	0~100%			
Protection Degree		IF	266	

Specifications are subject to change v ithout advance notice

