

HOUSEHOLD ENERGY STORAGE SYSTEM

THREE-PHASE HYBRID SOLAR INVERTER
15.5kW

Application Scenarios

Household or light commercial three-phase hybrid energy storage system, is applicable to newly installed or modified photovoltaic energy storage system, AC 380V/400V



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.
- With IP66 protection degree, it can be installed outdoors.
- The design is fanless and low noise.

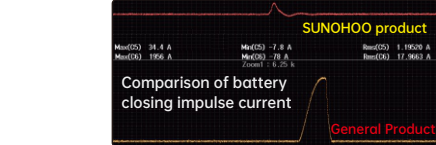
Product Highlight

Powerful Function

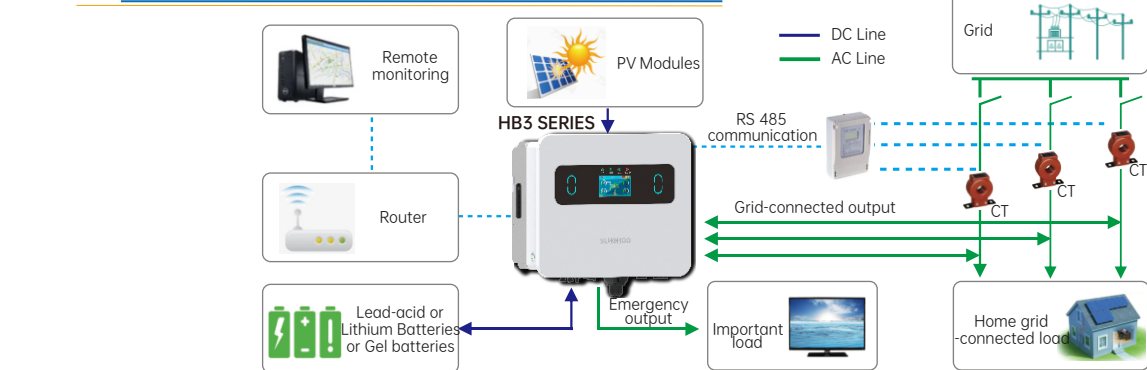
- Equipped with uphill driving function, with higher load power and more types of loads.
- Independent multi-function generator interface, intelligent switching, saving additional investment.

Safe And Reliable

- 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.



Application System Diagram



Flexible And Efficient

- 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.
- It has the function of UPS, and the switching time ≤ 10ms.
- Support 100% three-phase unbalanced output.
- 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.
- The Maximum Supports up to 15 parallel machines, and split-phase group grid.

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.



HB3155EH600 Parametes

MODEL	HB3155EH600
PV Input	
Max PV Input Power	31000W
Max PV Input Voltage	1000Vdc
PV Input Starting Voltage	120Vdc
MPPT Input Voltage	120~850Vdc
MPPT Full Load Voltage Range	400~850Vdc
PV Max Input Current	30A+30A
PV Short-circuit Current	34A+34A
Number of MPPT / Strings per MPPT	2/2+2
AC Output	
Rated Output Voltage	220/380Vac, 230/400Vac
Output Frequency Range	50/60Hz(±5), Intelligent adaptive/Settable
Rated Output Current	22.4A
Max Grid-connected Current	25.8A
Rated Grid-connected Power	15500W
Max Grid-connected Viewing Power	17050VA
Max Grid-connected Active Power	17050W
DC Component	< 0.5% In
Grid Type	Three-phase, 3L+N+PE
Output Power Factor(cos φ)	> 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	<110%Long-term work, 110%-120% 1min, >120% 10S
Battery Input	
Battery Type	Lead-acid, lithium batteries, gel batteries, etc
Charging Mode	3-section Type/Equilibrium/Self-adaption BMS
Battery Voltage	125~600V
Max Discharge/Charging Current	50A
Rated Discharge/Charging Current	40A
Efficiency	
Max PV Conversion Efficiency	98.2%
European Efficiency	97.5%
MPPT Efficiency	> 99%
General Parameters	
Display	Touch Screen+LED
Communication Mode	Standard : RS485/CAN/DRM, Optional 4G/WIFI/GPRS/Temperature compensation module
Surge Protection	DC Type II / AC Type III
Noise (dB)	< 30
Cooling	Intelligent forced air cooling
Operating Ambient Temperature	-25℃ ~ 60℃(> 45℃ Derating)
Humidity	0~100%
Altitude	4000m (>2000m Derating)
Electricity Consumption At Night	15W
Protection Degree	IP66
Installation Method	Wall-mounted
Dimension. W*D*H(mm)	590*200*488
Weight (kg)	35
Warranty	5 years standard/10 years optional

Specifications are subject to change without advance notice.