

HOUSEHOLD ENERGY STORAGE SYSTEM

SINGLE-PHASE HYBRID SOLAR INVERTER
HB1055EH048



HB1055EH048 PARAMETES

MODEL	HB1055EH048
PV Input	
Max PV Input Power	11000W
Max PV Input Voltage	550Vdc
PV Input Startup voltage	90Vdc
MPPT Input Voltage	370Vdc(90~550V)
MPPT Full Load Voltage Range	215~550Vdc
PV Max Input Current	15A+15A
PV Short-circuit Current	17A+17A
Number of MPPT / Strings per MPPT	2/1+1
AC Output	
Rated Output Voltage	220V/230Vac
Output Frequency Range	50/60Hz(±5), Intelligent adaptive/Settable
Rated Output Current	23.9A
Max Grid-connected Current	26.3A
Rated Grid-connected Power	5500W
Max Grid-connected Viewing Power	6050VA
Max Grid-connected Active Power	6050W
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
Off-grid Overload Capability	< 105%Long-term work , 106%-120% 3min , >120% 10S
Battery Input	
Battery Type	Lead-acid, lithium batteries, gel batteries, etc
Charging Mode	3-section type/Equilibrium/Self-adaption BMS
Battery Voltage	48Vdc(40~60V)
Max Discharge Current	120A
Max Charging Current	100A
Efficiency	
Max PV Conversion Efficiency	97.6%
European Efficiency	97.0%
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	Natural convection
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)	505*188*413
Gross Weight (kg)	26.5
Warranty	5 years standard/10 years optional

Specifications are subject to change v ithout advance notice.

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.

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

- The Maximum Supports up to 15 parallel machines, and three-phase group grid.
- Independent multi-function generator interface, intelligent switching,saving additional investment.
- Equipped with uphill driving function,with higher load power and more types of loads.

Strong Adaptability

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

Novelty In Appearance

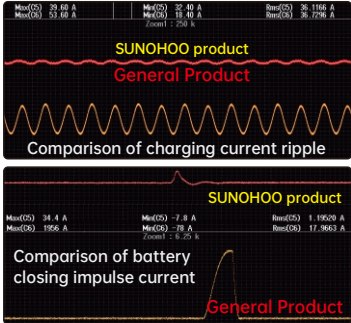
- The appearance is like a panda, lively and friendly.
- 4.3-inch 65K color high-definition touch screen, rich content, friendly human-computer interface.

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.
- It has two anti-reflux functions

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

