

# HOUSEHOLD ENERGY STORAGE SYSTEM

ON/OFF GRID SOLAR INVERTER  
8.5kW~12kW

## Application Scenarios

Scenarios of no power, lack of power, power instability area, no motor and other impact load scene



## Product Features

### Safe And Reliable

- With short circuit, under-voltage, overload, anti-reflux, PV anti-reverse connection, and other safety protection functions.

### Powerful Function

- 4 types of charging modes are optional: mains priority, photovoltaic priority, hybrid charging, only solar energy
- With two kinds of output modes (mains bypass & inverter output), it can supply the power uninterruptedly.

## Product Highlight

### Powerful Function

- Equipped with uphill driving function, with higher load power and more types of loads.
- The Maximum Supports up to 10 parallel machines, and three-phase group grid.

### Strong Adaptability

- Customizable design to meet different customer needs.
- No battery, bypass output ensures uninterrupted power for critical loads.

### More Intelligent

- Power grid self-adaptation, supporting normal power generation under weak grid conditions.
- With automatic dust removal function.
- Can set the photovoltaic grid-connected mode.

### Novelty In Appearance

- The appearance is like a robotic cat, lively and friendly.

## Product Appearance



### Higher Yield

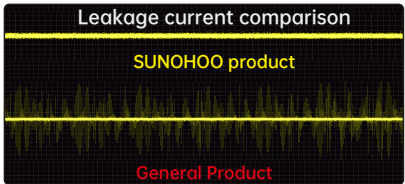
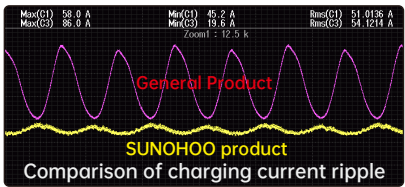
- Integrated MPPT controller, with efficiency up to 99.9%.

### Intelligent And Easy To Use

- Optional RS485, WIFI
- Compatible with lead-acid, lithium batteries, gel batteries, etc.

### Safe And Reliable

- Adopt special inverter architecture to reliably suppress leakage current, leading the industry.
- Excellent charging current control technology, effectively controlling the charging current ripple.



## HS1085EH48L ~ HS1120EH48L&HS1105EH48P Parametes

MODEL	HS1085EH48L	HS1105EH48L	HS1105EH48P	HS1120EH48P
Battery Voltage	48Vdc			
Battery Type	Lead-acid, lithium batteries, gel batteries, etc			
Output				
Rated Output Power	8500VA/8500W	10500VA/10500W	10500VA/10500W	12000VA/12000W
Parallel Function	N/A	N/A	Yes, up to 10 units	N/A
Rated Output Voltage	220/230Vac			
Rated Output Frequency	50/60Hz (± 5), intelligent adaptive / setting			
Output Waveform	Pure sine wave			
Max Efficiency(Peak)	92%			
Rated Current	36.9A	45.6A	45.6A	52.1A
Transfer Time	10ms(Typical value)			
PV Input				
Max Input Power	6000W+6000W	7500W+7500W		
MPPT Voltage Range	370Vdc(90~500V)			
Max Input Voltage	500Vdc			
Max Charging Current	180A	200A	200A	200A
Mains/ Generator Input				
Max Charging Current	100A	120A	120A	120A
AC Input Voltage Range (UPS mode)	170~280Vac,±2%			
Rated Frequency	50 / 60Hz			
Battery Input				
Voltage Range	42~59V			
Max Charging Current	180A	200A	200A	200A
General Parameters				
Dimension. W*D*H(mm)	605*425*140			
Installation Method	Wall-mounted			
Weight (kg)	24			
Communication Mode	Standard: RS485 / CAN, Optional 4G / WIFI / temperature compensation module			
Operating Environment				
Operating Ambient Temperature	-25℃~60℃( > 45℃ Derating )			
Storage Ambient Temperature	-20℃~60℃			
Humidity	0%~95%			
Altitude	< 2000m			
Protection Degree	IP20 (For indoor use only)			
Certifications				
Safety Certification	CE-LVD ; CE-EMC			
EMC Certifications	IEC/EN62109-1/2,IEC/EN61000-6-1/3,			

Specifications are subject to change without advance notice.