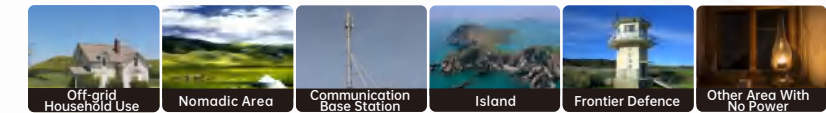


# HOUSEHOLD ENERGY STORAGE SYSTEM

SPLIT-PHASE ON/OFF GRID HYBRID INVERTER  
U 8.5kW~12kW/48V

## Application Scenarios

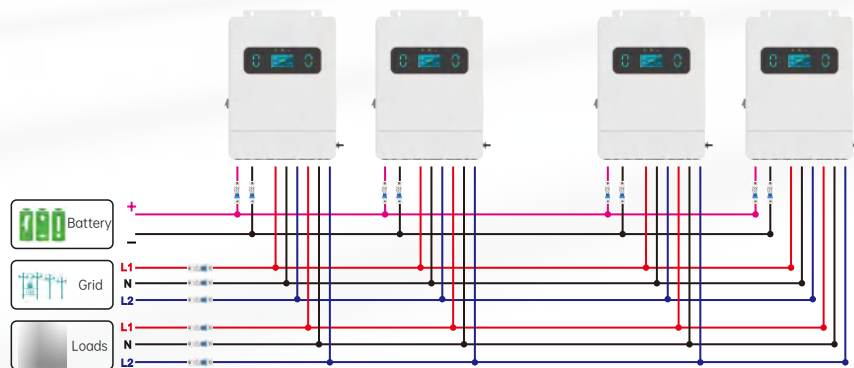
Scenarios of no power, lack of power, power instability area, no motor and other impact load scene



## Product Highlights

- The maximum power of the PV is twice the rated power. It supports full-power charging and full-power load operation
- Choose between a 65K-color HD touch screen and a segmented code screen. Supports global language customization
- It is possible to set the charging and discharging time periods according to the time-of-use electricity price.
- It has the function of connecting to the power grid, which effectively improves the energy utilization efficiency
- It is equipped with a dimensional upgrade driving function, enabling a larger load power capacity and support for a wider variety of loads.
- It adopts an advanced inverter architecture, which can reliably suppress leakage current and ensure electrical safety.
- It can provide bypass output even without a battery, ensuring continuous power supply to critical loads.
- It is compatible with lead-acid batteries, lithium batteries, gel batteries, etc.
- It has a battery activation function.
- Both the AC input port and the generator interface can be connected to the PV grid -connected inverter for renovating the original PV system.

## Parallel Connection System Diagram (n≤10)



## HS2085UH48L~HS2120UH48L Parameters

MODEL	HS2085UH48L	HS2105UH48L/P	HS2114UH48L/P	HS2120UH48L
Battery Voltage	40~60Vdc			
Battery Type	Lead-acid, lithium batteries, gel batteries, etc			
Output				
Rated Output Power	8500W	10500W	11400W	12000W
Parallel Function	N/A	L: N/A ; P: Yes, up to 10 units	L: N/A ; P: Yes, up to 10 units	N/A
Rated Output Voltage	120/240Vac			
Rated Output Frequency	50/60Hz Intelligent adaptive/configurable			
Output Waveform	Pure sine wave			
Max Efficiency(Peak)	92%			
Rated Current	35.4A	43.7A	47.5A	50.0A
Transfer Time	10ms(Typical value)			
PV Input				
Rated Power	6000W+6000W	7500W+7500W	7500W+7500W	7500W+7500W
MPPT Voltage Range	90~500Vdc			
Max Input Voltage	500Vdc			
Max Charging Current	180A±5A	200A±5A	200A±5A	200A±5A
Number of MPPT / Strings per MPPT	2/1+1			
Mains/ Generator Input				
Max Charging Current	100A	120A	120A	120A
AC Input Voltage Range (APL mode)	90~140Vac,±2%			
Frequency Range	(47-55Hz) ±0.3 / (57-65Hz) ±0.3			
Battery Input				
Voltage Range	40~60Vdc			
Max Charging Current	180±5A	200±5A	200±5A	200±5A
Default Charging Current	60A			
General Parameters				
Dimension. W*D*H(mm)	620*140*465			
Installation Method	Wall-mounted			
Weight (kg)	26			
Communication Mode	RS485/CAN Optional WIFI/4G			
Protection function	Over/Under Voltage Protection, Over/Under Frequency Protection, AC Output Short Circuit Protection, AC Output Overload Protection, High/Low Temp Protection, PV Reverse Connection Alarm			
Operating Environment				
Operating Ambient Temperature	-25°C~60°C( > 45°C Derating )			
Storage Ambient Temperature	-20°C~60°C			
Humidity	5%~95% Non-condensation			
Altitude	4000m( > 2000m Derating)			
Protection Degree	IP20 (For indoor use only)			
Certifications				
Certification	FCC, UL			
Certifications standard	FCC 47 CFR Part 15, UL1741, TSCA, CA65			

Specifications are subject to change without advance notice.