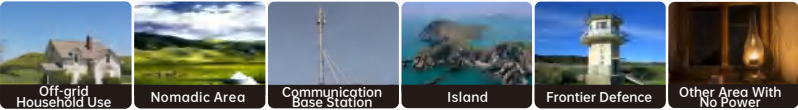


# HOUSEHOLD ENERGY STORAGE SYSTEM

ON/OFF GRID HYBRID INVERTER  
E 3kW-6kW/48V

## Application Scenarios

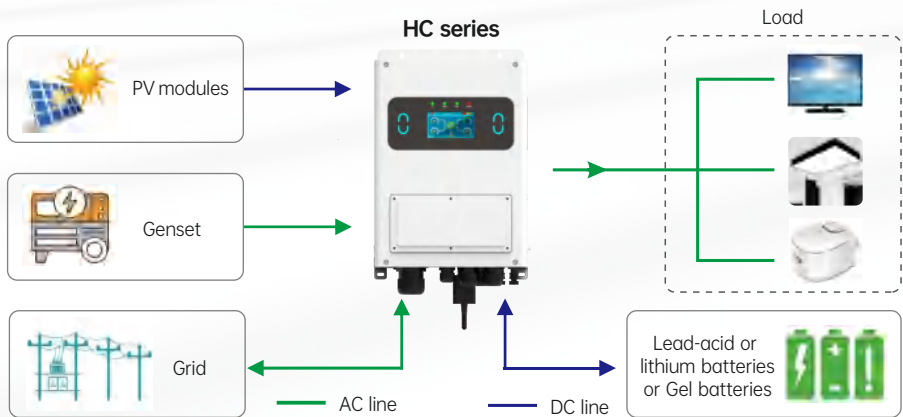
Scenarios of no power, lack of power, power instability area, no motor and other impact load scene



## Product Highlights

- The PV power can reach up to twice the rated power, and it simultaneously supports full-power grid connection as well as charging and energy storage.
- It adopts three - stage charge - discharge conversion, which results in low current ripple and prolongs the service life of the battery.
- It is equipped with a multi-functional generator interface, enabling intelligent switching and control, thus saving additional investment.
- Both the AC input port and the generator interface can be connected to the PV grid -connected inverter for renovating the original PV system.
- 4.3-inch 65K-color HD touch screen, supporting customization of languages worldwide
- Set the charging and discharging time periods according to the time-of-use electricity price.
- With an IP65 protection rating, it can be installed outdoors.

## Application System Diagram



## HC1030EH48L~HC1060EH48L Parameters

MODEL	HC1030EH48L	HC1040EH48L	HC1050EH48L	HC1060EH48L
PV Input				
Max PV Input Power	6000W	4000W+4000W	5000W+5000W	6000W+6000W
Max PV Input Voltage	500Vdc			
PV Input Startup voltage	90Vdc			
MPPT Input Voltage	120-425Vdc			
MPPT Full Load Voltage Range	335-425Vdc	235-425Vdc	295-425Vdc	350-425Vdc
PV Max Input Current	18A	18A+18A		
PV Short-circuit Current	26A			
Number of MPPT / Strings per MPPT	1/1	2/1+1		
AC Output				
Rated Output Voltage	220V/230Vac			
Output Frequency Range	50/60Hz(±5), Intelligent adaptive/Settable			
Rated Off-grid current	13A	17.4A	21.8A	26.1A
Max off-grid Power	3000W	4000W	5000W	6000W
Grid Type	Single Phase, L+N+PE			
Output Power Factor	> 0.99 @ Rated power (Adjustable 0.8 leading-0.8 lagging)			
THDi	< 3%			
Transfer Time	< 10ms			
Off-grid Overload Capability	101%-110% 30s, >110% 10s			
Battery Input				
Battery Type	Lead-acid, lithium batteries, gel batteries, etc			
Battery Voltage	48Vdc(40V~60V)			
Max Discharge Current	75A	100A	110A	120A
Max Charging Current	60A	100A	110A	120A
Max Discharge Power	3000W	4000W	5000W	6000W
Max Charging Power	3000W	4000W	5000W	6000W
AC Input				
Max. Input Power to Battery	3000W	4000W	5000W	6000W
Rated Input Voltage	150-290Vac (140-310V Optional)			
Rated Input Frequency	50/60Hz(±5), Intelligent adaptive/Settable			
Grid Input Current	15A	17.4A	21.8A	26.1A
Efficiency				
Max PV Conversion Efficiency	97.6%			
European Efficiency	96.5%			
MPPT Efficiency	> 99%			
General Parameters				
Display	Touch Screen+LED			
Communication Mode	RS485/CAN, GPRS/WIFI/Bluetooth/4G/LAN (Optional)			
Protection function	Grid/battery over- and undervoltage protection, Grid over- and underfrequency protection, Output short circuit/overload protection, PV reverse connection alarm, Battery charge and discharge overcurrent protection, Insulation impedance protection, Ground fault protection			
Noise (dB)	< 55			
Cooling	Intelligent fan (IP68)			
Operating Ambient Temperature	-40°C~60°C(> 45°C Derating )			
Humidity	0~100%			
Altitude	3000m (>2000m Derating )			
Protection Degree	IP65			
Installation Method	Wall-mounted			
Dimension. W*D*H(mm)	320*170*440			
Gross Weight (kg)	12	14	14.5	15
Warranty	5 years standard			
Certifications				
Certification standard	IEC/EN 61000-6-1/3、IEC/EN 61000-3-11/12、EN 62920、IEC 62109-1、IEC 62109-2、IEC 62321			

Specifications are subject to change without advance notice.