

HOUSEHOLD ENERGY STORAGE SYSTEM

SNHV 5120S HV Stackable



Off-grid
Household System



Communication
Base Station



Nomadic
Area



Island Border
Defense



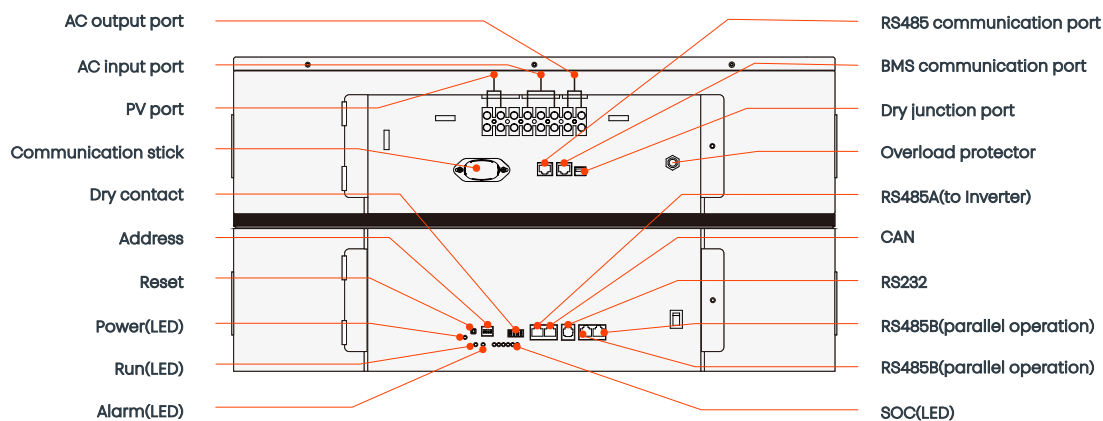
Other Power
Shortage Areas



Performance Characteristics

- With short circuit, under-voltage, overload, anti-reflux and other safety protection functions.
- 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.
- Integrated MPPT controller, with efficiency up to 99.9%.
- Can set the photovoltaic grid-connected mode. Equipped with uphill driving function, with higher load power and more types of loads.
- No battery, bypass output ensures uninterrupted power for critical loads. Customizable design to meet different customer needs.
- Power grid self-adaptation, supporting normal power generation under weak grid conditions. With automatic dust removal function.
- Modular stacking design, plug and play, convenient installation. Modular battery pack, supporting battery expansion, up to 20.48 kWh.
- Adopt special inverter architecture to reliably suppress leakage current, leading the industry.
- Excellent charging current control technology, effectively controlling the charging current ripple.

Product Appearance



Output

Rated Output Power	5500VA/5000W
Rated Output voltage	230VAC+4%
Rated Output Frequency	50/60Hz +0.3(Adaptive)
Output Waveform	Pure sine wave
Efficiency(Peak)	93.8%
Rated Current	22A
Transfer Time	10ms(Typical value)

AC Input

Rated Input Voltage	220/230VAC
Frequency Range	(47-55Hz)+0.3/(57-65Hz)+0.3
Max Charging Current	60A
Input Voltage Range	UPS Mains Mode:(170VAC~280VAC)+2%;APLGenerator Mode:(90VAC~280VAC)+2%

Battery

Battery Type	LiFePO4			
Battery Rated voltage	51.2V(16S)			
Battery Energy	5.12kWh	10.24kWh	15.36kWh	20.48kWh
Battery Capacity	100Ah	200Ah	300Ah	400Ah
Max Charging/Discharging Current	100A			
DOD	80%			
Designed Life-span	3000			

PV Input

Max input Power	4500W
Max PV Open-circuit Voltage	145VDC
MPPT voltage Range	60~115VDC
Max PV Input Current	50A
Max PV Charging Current	80A

General Parameters

Dimension. W*D*H(mm)	650*460*440	650*460*600	650*460*765	650*460*930
Weight (kg)	83kg	131.5kg	181kg	230kg
Communication Mode	RS485/Dry contact control, Optional WIFI/GPRS/4G			

Operating Environment

Operating Ambient Temperature	-10°C~55°C
Humidity	5%~95% Non-condensation
Operating Environment	Indoor

Certifications

Safety Certification	CE(IEC62109-1)
EMC Certifications	IEC/EN61000-6-1/3.CLASS B
Transport certification	UN38.3