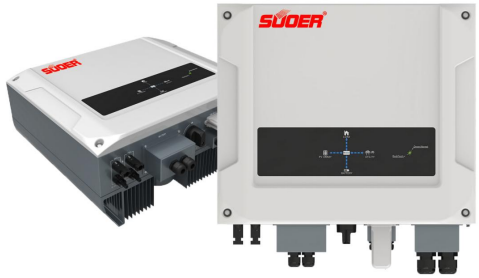
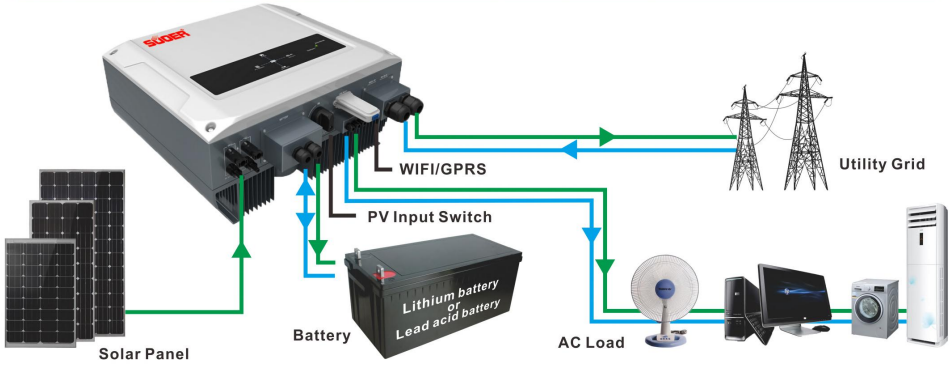
Mode 1
Energy produced by the PV system is preferred for local load.
The excess energy is used for battery charging in advance, then feeding to the grid.
Mode 2
If there is no PV input,battery energy is used for local first, the grid also can supply when the battery capacity is not enough.
Mode 3
If the grid is faulty or there is no grid,the system can still work
properly,PV and battery still supply energy for local load.
Mode 4
The battery can be charged by the grid,time and power of battery charging can be set up flexibly.

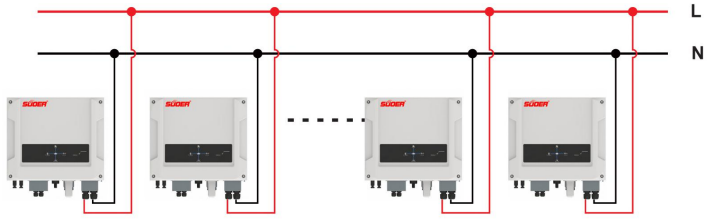


FEATURES

1. Li-ion /Lead-acid battery
2. Operation: On-grid(5kW), Backup(3kW)
3. Apply high frequency inverter technology(Off-grid)
4. Charging and discharging(3kW)
5. Zero export to grid
6. U-disk for software updating
7. Without LCD, no risk of dust or water
8. Separate APP setting/monitoring
9. Wi-Fi/GPRS
10. Flexible local monitoring through APP, Pad or PC
11. UPS function



On-grid Parallel Operation



Technical Parameter **HSI-series**

Specifications \ Model	HSI-3600	HSI-4600	HSI-5000(HOT)
Input Data (DC)			
Max. DC power	3800W	5000W	5400W
Max. DC voltage	600V		
Start voltage	100V		
DC nominal voltage	360V		
PV voltage range	100V-600V		
MPPT voltage range	120V-550V		
Max. input current per string of tracker A/tracker B	11A/11A		
Number of independent MPPT inputs	2		
Output Data (AC)			
Nominal AC output power	3600W	4600W	5000W
Max. AC apparent power	3600VA	4600VA	5000VA
Max. output current	16.4A	21.0A	22.8A
AC nominal voltage; range	220V/230V/240V; 180Vac-280Vac		
AC grid frequency; range	50,60Hz;±5 Hz		
Power factor at rate power	1		
Power factor	0.8leading...0.8lagging		
THDi	<3%		
AC connection	Single phase		
Battery			
Battery type	Li-ion or Lead-acid		
Norminal voltage	51.2V		
Battery capacity	>=100Ah(depending requirement)		
Energy	5.0kWh		
Max. discharging /charging power	2500W / 2500W		
Charging curve	3-stage adaptive with maintenance		
Operating voltage range	46-57V		
Max. charging/discharging current	50A / 50A		
Backup Output			
Output rate power	2500W		
Output voltage	230Vac ±2%, 50Hz (60Hz Optional)±0.2%, THDv<3%(linear load)		
Efficiency			
Max. efficiency	97%	97.10%	97.10%
Euro - eta	96.50%	96.50%	96.50%
MPPT efficiency	99.50%	99.50%	99.50%
Protection Devices			
DC reverse polarity protection	Yes		
DC switch rating for each MPPT	Yes		
Output over current protection	Yes		
Output overvoltage protection-varistor	Yes		
Ground fault monitoring	Yes		
Grid monitoring	Yes		
Integrated all - pole sensitive leakage current monitoring unit	Yes		
General Data			
Dimensions (W / H / D)	495*420*165mm		