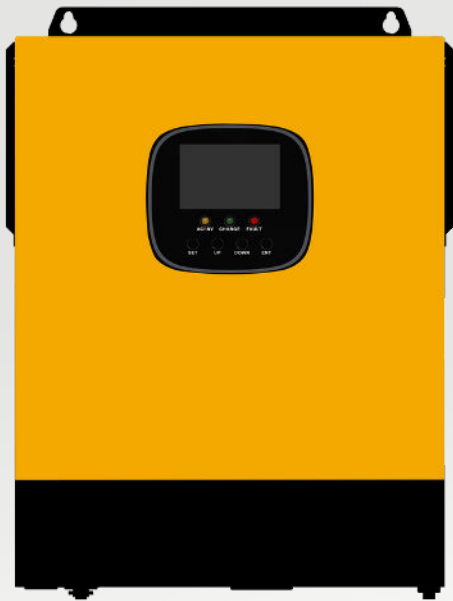


Off Grid Solar Inverter

High Frequency **SX-HSI 5500 SERIES**



- **5.5KW**
- **220V**
- **48V**

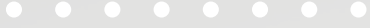
SX-HSI 5500 Series is a combination of high frequency inverter, AC charger and MPPT solar controller

Features :

- Advanced MPPT with up to 99.9% efficiency
- Multiple charge and discharge modes are available
- 360 degrees of security from hardware to software
- Multiple safety approvals available
- Support for many types of batteries
- Supports Li-ion battery BMS communication
- Outputs high-quality pure sine wave AC power
- Reliable output for long periods at rated power
- Industrial design with a modern aesthetic look
- Easy to install and simple to use
- Exclusive Li-ion battery BMS dual activation
- Support for remote monitoring of operating



More Image



Application

Designed for Areas with:

Unstable grid power, need backup power .

Main concern is sustainable power supply .



Ground-mounted solar power system

Designed for Areas with :

Stable grid power, but electricity price is expensive .

Main concern is reducing electricity bills.



Rooftop system on residential buildings

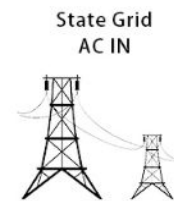
OFF-GRID Solar System



Monitor Display



Phone APP

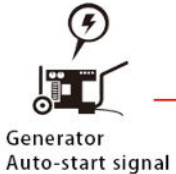


State Grid
AC IN

Solar panel
PV IN



4G/Wifi dongle



Generator
Auto-start signal

OFF-GRID Inverter Charger



Breaker

AC



Combiner Box

DC

Dry Contact

DC



Battery



House Distribution Box

AC

AC



Load

Data sheet

MODEL	HSI 5500	CAN BE SET
INVERTER		
Rated Output Power	5,500W	
Max.Peak Power	11,000VA	
Rated Output Voltage	230Vac (L/N/PE single phase)	✓
Load Capacity of Motors	4HP	
Rated AC Frequency	50Hz/60Hz	✓
Waveform	Pure Sine Wave	
Switch Time	10ms (typical)	
BATTERY		
Battery Type	Lead-acid / Li-ion / User defined	✓
Rated Battery Voltage	48V	
Voltage Range	40~60Vdc	✓
Max.MPPT Charging Current	100A	✓
Max.Mains/Generator Charging Current	60A	✓
Max.Hybrid Charging Current	100A	✓
PV INPUT		
Num. of MPPT Trackers	1	
Max.PV Array Power	6,000W	
Max.Input Current	22A	
Max.Voltage of Open Circuit	500Vdc	
MPPT Voltage Range	120~450Vdc	
UTILITY/ GENERATOR INPUT		
Input Voltage Range	UPS mode: 170~280Vac; APL mode: 90~280Vac	✓
Frequency Range	50/60Hz	
Bypass Overload Current	40A	
EFFICIENCY		
MPPT Tracking Efficiency	99.9%	
Max. Battery Inverter Efficiency	92%	
GENERAL		
Dimensions	426*322*124mm (1.40*1.06*0.41ft)	
Weight	10.5kg (23.15lb)	
Protection Degree	IP20, Indor Only	
Operating Temperature Range	-10°C~55°C	
Noise	≤60dB	
Cooling Method	Forced air cooling with adjustable air speed	
Warranty	1.5 Years	
COMMUNICATION		
Embedded Interfaces	RS485 / USB / Dry contact	✓
External Modules (Optional)	Wi-Fi / GPRS	✓
CERTIFICATION		
Safety	CE(IEC 62109-1)/FCC/SAA/CETL(UL1741 C22.2 NO.107.1)	
EMC	EN61000	
RoHS	Yes	