

INSOLA



Solar storage off-grid inverter

HSI 5500



User-Friendly

- Industrial design with a modern aesthetic look
- Easy to install and simple to use



Intelligent

- Exclusive Li-ion battery BMS dual activation
- Support for remote monitoring of operating



Reliable

- Outputs high-quality pure sine wave AC power
- Reliable output for long periods at rated power



Efficiency

- Advanced MPPT with up to %99.9 efficiency
- Multiple charge and discharge modes are available



All-in-one

- Support for many types of batteries
- Supports Li-ion battery BMS communication



Safety

- 360 degrees of security from hardware to software
- Multiple safety approvals available

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	
Switching 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	✓✓
Recomended Battery Capacity	5kWh	
PV INPUT		
Num. of MPPT Trackers	1	
Max.PV Array Power	4,000W	
Max. Input Current	13A	
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*126mm (1.40*1.06*0.41 ft)	
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 / CAN / 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	

Application



House



Countryside



Farm



Telecom



Pasture



Island