



HSI 5000AP

Off-grid Single-Phase Low-voltage Inverter

Efficiency

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

Safety

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

All in one

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

Reliable

- Outputs high-quality pure sine wave AC power
- Reliable output for long periods at rated power
- Supports a maximum of 6 units in parallel

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

Application scenario



House



Farm



Telecom



Countryside



Island



Pasture

Off-grid Single-Phase Low-voltage Inverter



MODEL	HSI 5000AP	CAN BE SET
INVERTER		
Rated Output Power	5000W	
Max. Peak Power	10000VA	
Rated Output Voltage	230Vac	✓
Load Capacity of Motors	4HP	
Rated AC Frequency	50Hz/60Hz ±0.3Hz	✓
Waveform	Pure Sine Wave	
Switch Time	10ms (typical)	
BATTERY		
Battery Type	Lead-acid or lithium batteries	✓
Rated Battery Voltage	48V	
Voltage Range	40~58Vdc	✓
Max. Grid/Generator Charging Current	80A	✓
Max. Hybrid Charging Current	100A	✓
PV INPUT		
No. of MPPT Trackers	1	
Max. PV Input Power	7500W	
Max. Input Current	30A	
Max. Open Circuit Voltage	500Vdc	
MPPT Voltage Range	60~450Vdc	
GRID / GENERATOR INPUT		
Input Voltage Range	90Vac~280Vac (±2%)	✓
Input Frequency Range	50Hz/60Hz(auto-detect)	
Bypass Overload Current	40A	
EFFICIENCY		
MPPT Tracking Efficiency	99.9%	
Max. Battery Inverter Efficiency	>92%	
GENERAL DATA		
Dimension	359.5x290.2x133mm	
Weight	8.5kg	
Protection Degree	IP20, Indor Only	
Operating Temperature Range	-15°C ~ 55°C, >45°C derate	
Noise	≤60dB	
Cooling Method	Forced air cooling with adjustable air speed	
Warranty	1.5 Years	
COMMUNICATION		
Communication Interface	RS485 / USB / Wi-Fi / Dry contact	✓
CERTIFICATION		
Safety	IEC62109-1, IEC62109-2,	
EMC	EN61000-6-1, EN61000-6-3, FCC 15 class B	



SPI Series

Off-grid Single-Phase Low-voltage Inverter

Efficiency

- Advanced MPPT technology with up to 99.9% efficiency
- Up to 22+22A PV input current

Safety

- Comprehensive security from hardware to software
- Multiple safety approvals

All-in-one

- Up to 200A charging current
- Supports Li-ion battery BMS communication

Reliable

- Outputs high quality pure sine wave AC power
- Up to 6 units in parallel connection

User-friendly

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

Intelligent

- Exclusive Li-ion battery BMS dual activation
- Time-slot function to save cost with peak-valley

Application scenario



House



Farm



Telecom



Countryside



Island



Pasture

Off-grid Single-Phase Low-voltage Inverter



MODELS	SPI-8K-SP	SPI-10K-SP	SPI-12K-SP	Can Be Set
INVERTER OUTPUT				
Rated Output Power	8000W	10000W	12000W	
Max. Peak Power	16000W	20000W	24000W	
Rated Output Voltage	230Vac, single-phase / three-phase, be paralleled			✓
Load Capacity of Motors	5HP	6HP	6HP	
Rated AC Frequency	50/60Hz			✓
Waveform	Pure Sine Wave			
Switch Time	10ms (typical)			
Parallel Capacity	1~6 units			
Output Mode	Off-grid (default) / power the load without battery			✓
BATTERY				
Battery Type	Li-ion / Lead-acid / User-defined			✓
Rated Battery Voltage	48Vdc			
Voltage Range	40~60Vdc			✓
Max. Grid/Generator Charging Current	150A			✓
Max. Hybrid Charging Current	180A	200A	200A	✓
PV INPUT				
Num. of MPPT	2			
Max. PV Array Power	5500W + 5500W	5500W + 5500W	6600W + 6600W	
Max. Input Current	22A + 22A			
Max. Voltage of Open Circuit	500Vdc / 500Vdc			
MPPT Voltage Range	125~425Vdc / 125~425Vdc			
GRID / GENERATOR INPUT				
Input Voltage Range	90~275Vac			
Frequency Range	50/60Hz			
Bypass Overload Current	63A			
EFFICIENCY				
MPPT Tracking Efficiency	99.9%			
Max. Battery Inverter Efficiency	92%			
GENERAL				
Dimensions	620x445x130mm			
Weight	27kg			
Protection Degree	IP20, Indoor Only			
Operating Temperature Range	-10~55℃, >45℃ derated			
Noise	<60dB			
Cooling Method	Internal Fan			
Warranty	18 Months			
COMMUNICATION				
Embedded Interfaces	RS485 / CAN / USB / Dry contact			✓
External Modules (Optional)	Wi-Fi / GPRS			✓
CERTIFICATION				
Safety	IEC62109-1, IEC62109-2			
EMC	EN61000-6-1, EN61000-6-3			
RoHS	Yes			