



SOLAR STORAGE INVERTER

SunSmart

SPI-8K-H3P/SPI-10K-H3P/SPI-12K-H3P



House



Farm



Telecom



Countryside



Island



Pasture

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 certifications

All-in-One

- Up to 260A charging current
- Support Li-ion battery BMS communication

Reliable

- Outputs high quality pure sine wave AC power
- Up to 72kW load power for most household needs

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

Datasheet

Model	SPI-8K-H3P	SPI-10K-H3P	SPI-12K-H3P	Can Be Set
INVERTER OUTPUT				
Rated Output Power	8000W	10000W	12000W	
Max.Peak Power	16000VA	20000VA	24000VA	√
Rated Output Voltage	230/400Vac , Three-phase			
Capacity of Motor Load	5HP	6HP		√
Rated Frequency	50/60Hz			
Output Frequency	pure sine wave			
Switching Time	10ms (typical)			
BATTERY				
Battery Types	Li-ion / Lead-Acid / User Defined			√
Rated Battery Voltage	48Vdc			
Voltage Range	40-60Vdc			√
Max. PV Charging Current	180A	220A	260A	√
Max. Utility / Generator Charging Current	100A	120A	120A	√
Max. Hybrid Charging Current	180A	220A	260A	√
PV INPUT				
No. of MPPT	2			
Max. Input Power	6000W/6000W	7500W/7500W	9000W/9000W	
Max. Input Current	22A/22A			
Max. Open-circuit Voltage	800Vdc/800Vdc			
MPPT Operating Voltage Range	200-650Vdc/200- 650Vdc			
UTILITY / GENERATOR INPUT				
Input Voltage Range	phase voltage 170~280V, line voltage 305~485V			
Input Frequency Range	50/60Hz			
Bypass Overload Current	63A			
EFFICIENCY				
MPPT Tracking Efficiency	99.9%			
Max. Battery Inverter Efficiency	≥92%			
European Efficiency	97.2%	97.5%	97.5%	
GENERAL				
Dimensions	620*445*130mm			
Weight	27kg			
Protection Degree	IP20, indoor only			
Ambient Temp	-10-55°C, >45°C derated			
Noise	<60dB			
Cooling Method	air cooling			
Warranty	18 months			
COMMUNICATION				
Internal Interface	RS485 / CAN / USB / Dry contact			√
External Module (Optional)	Wi-Fi / GPRS			√
CERTIFICATION				
Safety	IEC62109-1, IEC62109-2			
EMC	EN61000-6-1,EN61000-6-3,FCC15 class B			
RoHS	Yes			