



SPI Series

Solar storage inverter

Efficiency

- Advanced MPPT technology with up to 99% efficiency
- Up to 36+36A PV input current

Safety

- Comprehensive security from hardware to software
- Multiple safety approvals

All-in-one

- Up to 300A charging current
- Support 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

Model	SPI-14K-SP	SPI-15K-SP	SPI-16K-SP
AC OUTPUT			
Rated Output Power	14000W	15000W	16000W
Max. Peak Power	2 times rated power, 10s		
Max. Apparent Power	14000VA	15000VA	16000VA
Rated Output Voltage	230Vac (L+N+PE)		
Rated Output Current	60.9Aac	65.2Aac	69.6Aac
Load Motor Capacity	9HP		
Rated Frequency	50/60Hz		
Waveform	Pure sine wave		
Switch Time	10ms (typical)		
BATTERY			
Battery Type	Li-ion / Lead-acid / User-defined		
Rated Battery Voltage	48Vdc		
Battery Volatge Range	40Vdc~60Vdc		
Max. Grid/Generator Charging Current	300Adc	300Adc	300Adc
Max. Charging/Discharging Current	300Adc	300Adc	300Adc
SOLAR INPUT			
No. Of MPPT	2		
Max. PV Input Power	12000W + 12000W		
Max. PV Input Current	36Adc + 36Adc		
PV Short-circuit Current	50Adc + 50Adc		
PV Start-up Voltage	90Vdc / 90Vdc		
Max. PV Open-Circuit Voltage	650Vdc / 650Vdc		
MPPT Operating Voltage Range	120Vdc~600Vdc / 120Vdc~600Vdc		
GRID/GENERATOR INPUT			
Rated Input Voltage	230Vac (L+N+PE)		
Input Voltage Range	90Vac~280Vac		
Rated Input Frequency	50Hz/60Hz		
Bypass Overload Current (Grid)	100Aac		
Bypass Overload Current (Generator)	60.9Aac	65.2Aac	69.6Aac
EFFICIENCY			
MPPT Tracking Efficiency	>99%		
Max. Inverter Efficiency	94.3%		
Max. Charging Efficiency	93.4%		
GENERAL DATA			
Parallel Capacity	1~6 Units		
Dimension (W*H*D)	514*804*215mm	Altitude	2000m
Weight	46.3kg	Cooling Method	Intelligent Air Cooling
Protection Degree	IP20 Indoor Only	Warranty	2 years
Temperature	-10~55°C, >45°C Derated	Communication	RS485/CAN/USB/Dry Contact
Noise	<60dB	External Module (Optional)	Wi-Fi/4G Stick
Certificate	IEC62109-1, IEC62109-2, EN61000-6-1, EN61000-6-3		
PROTECTION			

Has PV Current Limiting Protection, PV Overvoltage Protection, Night Anti – backcharging Protection, Mains Input Overvoltage Protection, Mains Input Undervoltage Protection, Battery Overvoltage Protection, Battery Undervoltage Protection, Battery Overcurrent Protection, AC Output Short – circuit Protection, Heat Sink Overtemperature Protection, Overload Protection, AC Backfeed Protection, Bypass Overcurrent Protection, Bypass Wiring Error Protection, Arc Fault Protection, Leakage Current Protection, Rapid Shutdown Signal Generator (Optional)