



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-UP		SPI-15K-UP		SPI-16K-UP	
INVERTER OUTPUT							
Rated Output Power		14000W		15000W		16000W	
Max. Peak Power		2 times rated power, 10s					
Max. Apparent Power		14000VA		15000VA		16000VA	
Rated Output Voltage		120Vac/240Vac (L1+L2+N+PE)					
Rated Output Current		58.3Aac		62.5Aac		66.7Aac	
Load Motor Capacity		9HP					
Rated AC Frequency		50/60Hz					
Waveform		Pure sine wave					
Switch Time		10ms (typical)					
BATTERY							
Battery Type		Lead-Acid Battery / Lithium-Ion Battery / 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		600Vdc / 600Vdc					
MPPT Operating Voltage Range		120Vdc~550Vdc / 120Vdc~550Vdc					
GRID/GENERATOR INPUT							
Rated Input Voltage		120Vac/240Vac (L1+L2+N+PE)					
Input Voltage Range		85Vac~140Vac / 170Vac~280Vac					
Rated Input Frequency		50Hz/60Hz					
Bypass Overload Current (Grid)		100Aac					
Bypass Overload Current (Generator)		58.3Aac		62.5Aac		66.7A	
EFFICIENCY							
MPPT Tracking Efficiency		>99%					
Max. Inverter Efficiency		94.3%					
Max. Charging Efficiency		93.4%					
GENERAL DATA							
Parallel Capacity		1~6 Units					
Dimension		20.24×33.39×8.46 in		Altitude		2000m (78740 in)	
Weight		47.5kg (≈105 lbs)		Cooling Method		Intelligent Air Cooling	
Protection Degree		IP20 Indoor Only		Warranty		2 years	
Temperature		14~131°F, >113°F Derated		Communication		RS485/CAN/USB/Dry Contact	
Noise		<60dB		External Module (Optional)		Wi-Fi/4G Stick	
Certificate		IEC62109-1, IEC62109-2,UL1741,EN61000-6-1, EN61000-6-3, FCC 15 class B					
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)