



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 360A 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-15K-U3P	SPI-16K-U3P	SPI-18K-U3P
AC OUTPUT				
Rated AC Output Power		15000W	16000W	18000W
Max. AC Output Power		16500VA	17600VA	19800VA
Peak Power(off grid)		2 times rated power, 10s		
Rated AC Output Current		41.7Aac	44.5Aac	50Aac
Rated Output Frequency			50/60Hz	
Rated Output Voltage		120/208Vac (L1+L2+L3+N+PE)		
Output Voltage Range			120/208Vac ± 5%	
BATTERY				
Battery Type		Lead-Acid Battery / Lithium-Ion Battery / User Defined		
Rated Battery Voltage		48Vdc		
Battery Voltage Range		40~60Vdc		
Max. PV Charging Current		320Adc	360Adc	360Adc
Max. Grid/Generator Charging Current		320Adc	360Adc	360Adc
Max. Charging/Discharging Current		320Adc	360Adc	360Adc
Charging Curve		3 Stages / Equalization		
Charging Strategy for Li-Ion Battery		Self-adaption to BMS		
PV INPUT				
No. of MPPT Trackers		2		
Max. PV Input Power		14.4kW + 14.4kW		
Input Current		36Adc + 36Adc		
Min. PV Input Voltage / Start-up Voltage		100Vdc / 100Vdc		
Max. PV Open-Circuit Voltage		600Vdc / 600Vdc		
MPPT Operating Voltage Range		120~550Vdc / 120~550Vdc		
GRID/GENERATOR INPUT				
Rated Input Frequency		50/60Hz		
Rated Input Voltage		120/208Vac (L1+L2+L3+N+PE)		
AC Voltage Range		Phase Voltage 90~140Vac; Line Voltage 156~242Vac		
Bypass Overload Current		100Aac		
EFFICIENCY				
MPPT Tracking Efficiency		>99%		
Max. Efficiency		97.6%		
BASIC DATA				
Parallel Capacity	1~6 units			
Dimensions	23.36"×33.40"×8.47"	Cooling Method	Intelligent Air Cooling	
Weight	53.6KG (118 lbs)	Communication Interface	RS485/CAN/WI-FI	
Operating Temperature	14 ~ 131 °F, >113 °F Derated	External Modules (Optional)	Wi-Fi/4G Stick	
Protection Degree	IP20			
Certification	IEC62109-1, IEC62109-2, EN61000-6-1, EN61000-6-3, RoHS, FCC 15 class B			
Protection Functions				

With PV input current / power limiting protection, PV input over-voltage, Anti-reverse charge protection at night, AC input over-voltage protection, AC input under-voltage protection, Battery over-voltage protection, Battery under-voltage protection, Battery over-current protection, AC output short-circuit protection, Heat sink over-temperature protection, nverter over-load protection, AC output reverse, Bypass over-current protection, Bypass phase inconsistency protection.