SolarForest
PV Products Manufacturer

SPI Series(EU)
Solar storage inverter

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

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

Safety
- Comprehensive security from hardware to software
- Multiple safety approvals

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

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

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

MODELS	SPI-8K-SP	SPI-10K-SP	Can Be Set
INVERTER OUTPUT			
Rated Output Power	8,000W	10,000W	
Max. Peak Power	16,000W	20,000W	
Rated Output Voltage	230Vac, single-phase / three-phase, be paralleled		✓
Load Capacity of Motors	5HP	6HP	
Rated AC Frequency	50/60Hz		✓
Waveform	Pure Sine Wave		
Switch Time	10ms (typical)		
Parallel Capacity	1~6 units		
Output Mode	Off-grid (default) / Hybrid		✓
BATTERY			
Battery Type	Li-ion / Lead-acid / User-defined		✓
Rated Battery Voltage	48Vdc		
Voltage Range	40~60Vdc		✓
Max. MPPT Charging Current	180A	200A	✓
Max. Mains/Generator Charging Current	100A	120A	✓
Max. Hybrid Charging Current	180A	200A	✓
PV INPUT			
Num. of MPPT	2		
Max. PV Array Power	5,500W + 5,500W		
Max. Input Current	22A + 22A		
Max. Voltage of Open Circuit	500Vdc + 500Vdc		
MPPT Voltage Range	125~425Vdc		
MAINS / 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	620*445*130mm		
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, FCC 15 class B		
RoHS	Yes		