



SEI-4K-SP/4.6K-SP/ 5K-SP/5.5K-SP/6K-SP

Solar storage inverter

Efficiency

- Advanced MPPT with up to 99.9% efficiency
- Up to 16A+16A PV input current

Safety

- Comprehensive security from hardware to software
- Multiple safety approvals

All-in-one

- Up to 100A charging current
- Supports Li-ion battery BMS communication

Reliable

- Outputs high-quality pure sine wave AC power
- With IP65 protection degree

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

MODELS	SEI-4K-SP	SEI-4.6K-SP	SEI-5K-SP SEI-5.5K-SP	SEI-6K-SP	Can Be Set
OFF-GRID OUTPUT					
Rated Output Power	4,000W	4,600W	5,500W	6,000W	
Max. Peak Power	8,000VA	9,200VA	11,000VA	12,000VA	
Rated Output Voltage	230Vac, single phase				✓
Load Capacity of Motors	3HP	4HP			
Output Frequency Range	50Hz ± 0.3Hz/60Hz ± 0.3Hz				✓
Switching Time	10ms (typical value)				
ON-GRID OUTPUT					
Rated Output Power	4,000W	4,600W	5,500W	6,000W	
Max. Apparent Power	8,000VA	9,200VA	11,000VA	12,000VA	
Rated Output Current	17.4A	20A	24A	26A	
Max. Output Current	19.1A	22A	26.4A	28.6A	
THDI	< 3%				
Power Factor	0.8 leading to 0.8 lagging				
Rated Voltage	230Vac, single phase				
Frequency	50Hz/60Hz				
BATTERY					
Battery Type	Lead-acid / Li-ion / User-defined				✓
Rated Battery Voltage	48V (minimum start-up voltage 44V)				
Battery Voltage Range	40~60Vdc				✓
Max. PV Charging Current	100A				✓
Max. Utility Charging Current	60A				✓
Max. Generator Charging Current	60A				✓
PV INPUT					
Num. of MPPT	2				
Max. Input Power	3,000W+3,000W	3,500W+3,500W	4,000W+4,000W	4,500W+4,500W	
Max. Input Current	16A+16A				
Max. Short-circuit Current	27A+27A				
Max. Open-circuit Voltage	500Vdc+500Vdc				
MPPT Operating Voltage Range	120-450Vdc				
UTILITY / GENERATOR INPUT					
Input Voltage Range	90~280Vac				✓
Input Frequency Range	50/60Hz				
Bypass Overload Current	40A				
EFFICIENCY					
MPPT Tracking Efficiency	99.9%				
Max. Efficiency	97.5%				
GENERAL					
Num. of Parallel	1-6 units				
Dimension	556*345*182mm				
Weight	20kg				
Protection Degree	IP65				
Operating Temperature Range	-25-60°C (>45°C derating)				
Humidity Range	0% ~ 100%				
Noise	<60dB				
Cooling Method	heatsink & intelligent air cooling				
Warranty	5 years				
COMMUNICATION					
Internal Interface	RS485 / CAN / USB / Dry contact				✓
External Module (optional)	Wi-Fi / GPRS				✓
CERTIFICATION					
On-grid Certification	EN50549-1, G99, NRS-097, VDE-ARN-4105, CEI021, UNE217002				
Safety	IEC62109-1, IEC62109-2				
EMC	EN61000-6-1, EN61000-6-3, FCC15 classB				
RoHS	Yes				