



SEI Series

Hybrid Solar Storage Inverter

Efficiency

- Advanced MPPT with up to 99.9% efficiency
- Up to 40A*2 PV input current

Safety

- With software and hardware security protection
- Multiple safety approvals

All-in-One

- Up to 350A charging current
- Supports Li-ion battery BMS communication

Reliable

- Output 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

MODEL	SEI-14K-U3P		SEI-16K-U3P	SEI-18K-U3P
AC Input/Output Data				
Rated AC Input/Output Active Power	14000W		16000W	18000W
Max. AC Input/Output Apparent Power	15400VA		17600VA	19800VA
Rated AC Input/Output Current	44.5A/38.8A		50A/44.5A	55.5A/50A
Max. AC Input/Output Current	44.5A/38.8A		50A/44.5A	55.5A/50A
Peak Power (off-grid)	28000VA		32000VA	36000VA
Power Factor Adjustment Range	0.8 leading to 0.8 lagging			
Rated Input/Output Voltage/Range	120/208V 0.85Un-1.1Un			
Rated Input/Output Grid Frequency/Range	60Hz/40Hz-70Hz			
Grid Connection Form	3L+N+PE			
THD	<3% (of nominal power)			
Battery Input Data				
Battery Type	Lead-Acid Batteries / Lithium Batteries / User-defined			
Number of Battery Input	2			
Battery Voltage Range	40V-60V			
Max. Grid/Generator Charging Current	300A	330A	350A	
Max. Hybrid Charging Current	300A	330A	350A	
Max. Discharging Current	300A	330A	350A	
Charging Strategy for Li-ionBattery	Self-adaption to BMS			
PV Input Data				
No. Of MPPT Trackers	3			
No. of Strings MPPT Tracker	2+2+2			
Max. PV Access Power	28000W	32000W	36000W	
Max. PV Input Power	22400W	25600W	28800W	
Max. PV Input Voltage	600V/600V/600V			
Start-up Voltage	120V			
Max. PV Input Current	40A+40A+40A			
Max. Input Short-Circuit Current	50A+50A+50A			
MPPT Voltage Range	120V-500V			
Grid/Generator Input				
Input Voltage Range	Phase voltage: 90V-140V, line voltage: 156V-243V			
Input Frequency Range	40Hz-70Hz			
Max. Bypass Overload Current (Grid)	200A			
Efficiency				
MPPT Tracking Efficiency	99.9%			
Max. Efficiency	97.5%			
CEC Efficiency	97%			

General Data			
Parallel Capacity	1~9 Units		
Dimension	480*860*313mm	Humidity	0~100%
Weight	59kG	Cooling Method	Heat sink + intelligent air cooling
Protection Degree	IP65	Noise	<55dB
Temperature	-25~60℃, >45℃ Derating	Communication	RS485/CAN/USB/Dry Contact
Warranty	5 years	External Module (Optional)	Wi-Fi/4G Stick
Certificate	CSA C22.2 No 107.1-16, IEC62109-1, IEC62109-2, EN61000-6-1, EN61000-6-3		
Protection			
PV Lightning Protection	Yes	Anti-islanding Protection	Yes
Leakage Current Detection	Yes	Insulation Resistor Detection	Yes
Output Overcurrent / Shorted Protection	Yes	PV Input Reverse Polarity Protection	Yes
Overvoltage Category	AC type III/DC type II	Surge protection	AC type II/DC type II