

# 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

- 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

# SEI

Application scenario



House



Farm



Telecom



Countryside



Island



Pasture



## Product Parameters

Model	SEI-14K-U3P	SEI-16K-U3P	SEI-18K-U3P		
<b>Inverter Output</b>					
Rated AC Input/Output Active Power	14,000W	16,000W	18,000W		
Max. AC Input/Output Apparent Power	15,400VA	17,600VA	19,800VA		
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)	28,000VA	32,000VA	36,000VA		
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)				
<b>Battery Input Data</b>					
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				
<b>PV Input Data</b>					
Num. Of MPPT Trackers	3				
No. of Strings MPPT Tracker	2+2+2				
Max. PV Access Power	28,000W	32,000W	36,000W		
Max. PV Input Power	22,400W	25,600W	28,800W		
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				
<b>Grid/Generator Input</b>					
Input Voltage Range	Phase voltage: 90V~140V, line voltage: 156V~243V				
Frequency Range	40Hz~70Hz				
Bypass Overload Current	200A				
<b>Efficiency</b>					
MPPT Tracking Efficiency	99.9%	Max. Efficiency	97.5%	CEC Efficiency	97%
<b>General Data</b>					
Parallel Capacity	1~9 Units				
Dimensions	480*860*313mm	Humidity Range	0~100%		
Weight	59kg	Cooling Method	Heat sink + intelligent air cooling		
Protection Level	IP65	Noise	<55dB		
Temperature	-25~60°C, >45°C Derating	Communication Port	RS485/CAN/USB/Dry Contact		
Warranty	5 years	External Module	Wi-Fi/4G Stick		
<b>Protection</b>					
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		