



## SEI-3.6K-SP/4K-SP/4.6K-SP/5K-SP/5.5K-SP/6K-SP Single-Phase Low-Voltage Hybrid 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

# Single-Phase Low-Voltage Hybrid Inverter



Model	SEI-3.6K-SP	SEI-4K-SP	SEI-4.6K-SP	SEI-5K-SP SEI-5.5K-SP	SEI-6K-SP	Settable
<b>AC OUTPUT (LOAD)</b>						
Rated Output Power	3600W	4000W	4600W	5500W	6000W	
Max. Peak Power	7200VA	8000VA	9200VA	11000VA	12000VA	
Rated Output Voltage	230Vac (Single phase) (200/208/220/240Vac settable)					✓
Load Motor Capacity	3HP		4HP			
Rated Frequency	50/60Hz ±0.3Hz					
Waveform	Pure Sine Wave					
Switch Time	10ms (typical)					
<b>AC OUTPUT (GRID)</b>						
Rated Output Power	3600W	4000W	4600W	5500W	6000W	
Max. Apparent Power	3960VA	8000VA	9200VA	11000VA	12000VA	
Power Factor	0.8 leading to 0.8 lagging					
Rated Voltage	220/230Vac					
Rated AC Frequency	50/60Hz					
Rated AC Output Current	15.7Aac	17.4Aac	20Aac	24Aac	26Aac	
THD	<3%					
<b>BATTERY</b>						
Battery Type	Li-ion / Lead-Acid / User Defined					✓
Rated Battery Voltage	48V					
Battery Voltage Range	40~60Vdc					
Max. Grid Charging Current	60Adc					
Max. Generator Charging Current	60Adc					
Max. Hybrid Charging Current	100Adc					
<b>PV INPUT</b>						
No. of MPPT Trackers	2					
Max. PV Input Power	2700W+2700W	3000W+3000W	3500W+3500W	4000W+4000W	4500W+4500W	
Max. PV Input Current	16A+16A					
Max. Short Circuit Current	27A+27A					
Max. Open Circuit Voltage	500Vdc+500Vdc					
MPPT Operating Voltage Range	120~450Vdc					
<b>GRID/GENERATOR INPUT</b>						
Input Voltage Range	90~280Vac					✓
Input Frequency Range	50/60Hz					
Bypass Overload Current	40Aac					
<b>EFFICIENCY</b>						
MPPT Tracking Efficiency	99.9%					
Max. Efficiency	97.5%					
European Efficiency	97%					
<b>GENERAL DATA</b>						
Parallel Capacity	1~6 Units (More than 3 units in parallel can form a three-phase output)					
Dimension	556*345*182mm	Humidity			0~100%	
Weight	22.1kg	Cooling Method		Heat sink + intelligent fan cooling		
Protection Degree	IP65	Warranty			5 years	
Temperature	-25 to +60°C, >45°C Derate	Communication		RS485/CAN/USB/Dry Contact		
External Module (Optional)	Wi-Fi/GPRS	Noise			<60dB	
Certificate	EN50549-1,G99,NRS-097,VDE-ARN-4105,CEI021,UNE217002,IEC62109-1, IEC62109-2, EN61000-6-1,EN61000-6-3, FCC 15 class B,RoHS					
<b>PROTECTION</b>						
PV Reverse Protection	Yes	Anti-Islanding Protection			Yes	
Residual-Current Monitoring	Yes	Insulation Resistance Monitoring			Yes	
Output Short-Circuit Protection	Yes	Output Over-Current Protection			Yes	
Over-Voltage Protection	AC type II/DC type III	Surge Protection		AC type II/DC type II		



# SEI-8K-SPD

## Single-Phase Low-Voltage Hybrid Inverter

### Efficiency

- Advanced MPPT with up to 99.9% efficiency
- Up to 32A+32A PV input current

### Safety

- Comprehensive security from hardware to software
- Multiple safety approvals

### All-in-one

- Up to 190A charging current
- Supports lead-acid battery and li-ion battery

### Reliable

- Outputs high-quality pure sine wave AC power
- With IP65 protection degree
- Up to 6 units can be connected in parallel.

### 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



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# Single-Phase Low-Voltage Hybrid Inverter



Model	SEI-8K-SPD	Adjustable
<b>AC OUTPUT (LOAD)</b>		
Rated Output Power	8000W	
Max. Peak Power	8800VA	
Rated Output Voltage	230Vac (single-phase) (200/208/220/240Vac configurable)	✓
Load Motor Capacity	4HP	
Rated Frequency	50/60Hz ± 0.3Hz	✓
Waveform	Pure sine wave	
Switch Time	10ms (Typical)	
<b>AC OUTPUT (GRID)</b>		
Rated Output Power	8000W	
Max. Apparent Power	8800VA	
Power Factor	0.8 leading to 0.8 lagging	
Rated Voltage	220/230Vac	
Rated AC Frequency	50/60Hz	
Rated Output Current	36.4Aac	
THD	<3%	
<b>BATTERY</b>		
Battery Type	Lithium-ion Battery / Lead-acid Battery / User-defined	✓
Rated Battery Voltage	48Vdc	
Battery Voltage Range	40-60Vdc	
Max. Grid Charging Current	160Aac	✓
Max. Generator Charging Current	160Aac	✓
Max. Hybrid Charging Current	190Aac	✓
<b>PV INPUT</b>		
No. of MPPT Trackers	2	
Max. PV Input Power	8000W+8000W	
Max. PV Input Current	32A/32A	
Max. Short Circuit Current	40A/40A	
Max. Open Circuit Voltage	600Vdc	
MPPT Voltage Range	120V~500Vdc	
<b>GRID/GENERATOR INPUT</b>		
Input Voltage Range	90V~280Vac	
Input Frequency Range	50/60Hz	
Bypass Overload Current	50Aac	
<b>EFFICIENCY</b>		
MPPT Tracking Efficiency	99.9%	
Max. Efficiency	97.5%	
European Efficiency	97%	

<b>GENERAL DATA</b>			
Parallel Capacity	1~6 Units		
Dimensions	365×631.5×263mm	Humidity Range	0~100%
Weight	33kg	Cooling Method	Heat sink + intelligent fan cooling
Protection Level	IP65	Noise	<60dB
Temperature	-25 to +60°C, >45°C Derate	Communication Port	RS485 / CAN / USB / Dry contact
Warranty	5 years	External Module	WIFI / 4G Stick
Certificate	EN50549-1,G99,NRS-097,VDE-ARN-4105,CEI021,UNE217002, IEC62109-1, IEC62109-2, EN61000-6-1, EN61000-6-3, FCC 15 class B, RoHS		

<b>PROTECTION</b>			
PV Reverse Protection	Yes	Anti-Islanding Protection	Yes
Residual-Current Monitoring	Yes	Insulation Resistance Monitoring	Yes
Output Short-Circuit Protection	Yes	Output Over-Current Protection	Yes
Over-Voltage Protection	DC type II/AC type III	Surge Protection	DC type II/AC type II



## SEI Series Single-Phase Low-Voltage Hybrid Inverter

### Efficiency

- Advanced MPPT with up to 99.9% efficiency
- Up to 22A\*2 PV input current

### Safety

- With software and hardware security protection
- Multiple safety approvals

### All-in-One

- Up to 200A 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



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# Single-Phase Low-Voltage Hybrid Inverter



MODEL	SEI-8K-SP	SEI-10K-SP	SEI-12K-SP	Can Be Set
<b>INVERTER OUTPUT</b>				
Rated Output Power	8,800W	10,000W	12,000W	
Max.Peak Power	17,600VA	20,000VA	24,000VA	
Rated Output Voltage	230Vac single-phase / three-phase (parallel)			√
Load Capacity of Motors	5HP	6HP		
Output Frequency	50/60Hz			
Number of Parallel	1~6 units			
<b>AC OUTPUT (Grid)</b>				
Rated Output Power	8,800W	10,000W	12,000W	
Max. Apparent Power	8,800VA	10,000VA	12,000VA	
Max. Output Current	40A	43.5A	54.5A	
Rated Output Voltage	230Vac			
THDI	< 3%			
Power Factor	0.8 leading to 0.8 lagging			
Frequency	50/60HZ			
<b>BATTERY</b>				
Battery Type	Lead-acid / Li-ion / User Defined			√
Rated Battery Voltage	48V			
Battery Voltage Range	40~60Vdc			
Max. Generator Charging Current	60A			
Max. Grid Charging Current	120A			
Max.PV Charging Current	200A			√
Max.Hybrid Charging Current	200A			√
<b>PV INPUT</b>				
Num. of MPPT Trackers	2			
Max.PV Array Power	5,500W+5,500W	6,600W+6,600W		
Max. Input Current	22A+22A			
Max.Voltage of Open Circuit	500Vdc+500Vdc			
MPPT Voltage Range	125~425Vdc			
<b>MAINS/GENERATOR INPUT</b>				
Input Voltage Range	90~280Vac			√
Frequency Range	50/60Hz			
Bypass Overload Current	63A			
<b>EFFICIENCY</b>				
MPPT Tracking Efficiency	99.9%			
Max. Efficiency	97.5%			
European Efficiency	97%			
<b>GENERAL</b>				
Dimensions	670*440*240mm			
Weight	37kg			
Protection Degree	IP65			
Operating Temperature Range	-25~60°C,>45°C derated			
Humidity range	0~100%			
Cooling Method	Forced air cooling			
<b>COMMUNICATION</b>				
Embedded Interfaces	RS485/CAN/USB/Dry contact			√
External Modules (Optional)	Wi-Fi / GPRS			√
<b>CERTIFICATION</b>				
Safety	IEC62109-1, IEC62109-2			
EMC	EN61000-6-1, EN61000-6-3, FCC 15 class B			
Rohs	Yes			