



## SEI-3K/4K/5K/6K/7K-H3P SEI-8K-H3DP Three-Phase Hybrid Solar Storage Inverter

### Efficiency

- Advanced MPPT with up to 99.9% efficiency
- Up to 26A+26A PV input current

### Safety

- Comprehensive security from hardware to software
- Multiple safety approvals

### All-in-one

- Up to 200A 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



Farm



Telecom



Countryside



Island



Pasture

# Three-Phase Hybrid Solar Storage Inverter



Model	SEI-3K-H3P	SEI-4K-H3P	SEI-5K-H3P	SEI-6K-H3P	SEI-7K-H3P	SEI-8K-H3DP
<b>AC OUTPUT (LOAD)</b>						
Rated Output Power	3000W	4000W	5000W	6000W	7000W	8000W
Max. Peak Power	6000VA	8000VA	10000VA	12000VA	14000VA	16000VA
Rated Output Voltage	230/400Vac (three-Phase)					
Load Motor Capacity	3HP		4.5HP		6HP	
Rated Frequency	50/60Hz ± 0.3Hz					
Waveform	Pure Sine Wave					
Switch Time	10ms (typical)					
<b>AC OUTPUT (GRID)</b>						
Rated Output Power	3000W	4000W	5000W	6000W	7000W	8000W
Max. Apparent Power	3300VA	4400VA	5500VA	6600VA	7700VA	8800VA
Power Factor	0.8 leading, 0.8 lagging					
Rated Voltage	3L/N/PE 230/400Vac					
Rated AC Frequency	50/60Hz					
Rated Output Current	4.4A	5.8A	7.2A	8.7A	10.1A	11.6A
THD	<3%					
<b>BATTERY</b>						
Battery Type	Li-ion / Lead-Acid / User Defined					
Rated Battery Voltage	48Vdc					
Battery Voltage Range	40~60Vdc					
Max. Grid Charging Current	50A <sub>dc</sub>	60A <sub>dc</sub>	80A <sub>dc</sub>	100A <sub>dc</sub>	120A <sub>dc</sub>	140A <sub>dc</sub>
Max. Generator Charging Current	50A <sub>dc</sub>	60A <sub>dc</sub>	80A <sub>dc</sub>	100A <sub>dc</sub>	120A <sub>dc</sub>	140A <sub>dc</sub>
Max. Hybrid Charging Current	80A <sub>dc</sub>	100A <sub>dc</sub>	120A <sub>dc</sub>	150A <sub>dc</sub>	180A <sub>dc</sub>	200A <sub>dc</sub>
<b>PV INPUT</b>						
No. of MPPT Trackers	1			2		
Max. PV Input Power	6000W	8000W	5000W+5000W	6000W+6000W	7000W+7000W	8000W+8000W
Max. PV Input Current	26A <sub>dc</sub>			26A <sub>dc</sub> +26A <sub>dc</sub>		
Max. Short Circuit Current	35A <sub>dc</sub>			35A <sub>dc</sub> +35A <sub>dc</sub>		
Max. Open Circuit Voltage	800V <sub>dc</sub>			800V <sub>dc</sub> /800V <sub>dc</sub>		
MPPT Voltage Range	200~650V <sub>dc</sub>			200~650V <sub>dc</sub> /200~650V <sub>dc</sub>		
<b>GRID/GENERATOR INPUT</b>						
Input Voltage Range	Phase voltage: 170~280V; Line voltage: 305~485V					
Input Frequency Range	50Hz / 60Hz					
Bypass Overload Current	45A					
<b>EFFICIENCY</b>						
MPPT Tracking Efficiency	99.9%					
Max. Efficiency	≥92%					
European Efficiency	97%					
<b>GENERAL DATA</b>						
Parallel Capacity	1~6 Units (More than 3 units in parallel can form a three-phase output)					
Dimensions	640x400x250mm (Hangers and connectors not included)		Humidity Range		0~100%	
Weight	37.5kg		Cooling Method		Heat sink + intelligent fan cooling	
Protection Level	IP65		Noise		<55dB	
Temperature	-25 to +60°C, >45°C Derate		Communication Port		RS485/CAN	
Warranty	5 years		External Module		WIFI/4G Stick(Optional)	
Certificate	EN50549,VDE4105,IEC62109-1, IEC62109-2,IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2, RoHS					
<b>PROTECTION</b>						
PV lightning protection, anti-islanding protection, reverse connection protection for PV input, insulation resistance detection, leakage current detection, output overcurrent protection, output short-circuit protection						
Overvoltage Protection Level	AC type II/DC type III		Surge Protection		AC type II/DC type II	



## SEI-16K/18K/20K-H3P

### Three-Phase Hybrid Solar Storage Inverter

#### Efficiency

- Advanced MPPT with up to 99.9% efficiency
- Up to 26A+26A+26A PV input current

#### Safety

- Comprehensive security from hardware to software
- Multiple safety approvals

#### All-in-one

- Up to 350A 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 9 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



Farm



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# Three-Phase Hybrid Solar Storage Inverter



Model	SEI-16K-H3P	SEI-18K-H3P	SEI-20K-H3P	Adjustable
<b>AC OUTPUT (LOAD)</b>				
Rated Output Power	16000W	18000W	20000W	
Max. Peak Power	32000VA	36000VA	40000VA	
Rated Output Voltage	230/400Vac (Three-Phase)			✓
Load Motor Capacity	10HP	11HP	12HP	
Rated Frequency	50/60Hz ± 0.3Hz			✓
Waveform	Pure sine wave			
Switch Time	10ms (Typical)			
<b>AC OUTPUT (GRID)</b>				
Rated Output Power	16000W	18000W	20000W	
Max. Apparent Power	32000VA	36000VA	40000VA	
Power Factor	0.8 leading to 0.8 lagging			
Rated Voltage	3L/N/PE 230/400Vac			
Rated AC Frequency	50/60Hz			
Rated Output Current	23.2A	26.1A	29A	
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	300Adc	330Adc	350Adc	✓
Max. Generator Charging Current	300Adc	330Adc	350Adc	✓
Max. Hybrid Charging Current	300Adc	330Adc	350Adc	✓
<b>PV INPUT</b>				
No. of MPPT Trackers	3			
Max. PV Input Power	24000W	27000W	30000W	
Max. PV Input Current	26Adc / 26Adc / 26Adc			
Max. Short Circuit Current	45Adc / 45Adc / 45Adc			
Max. Open Circuit Voltage	1000Vdc			
MPPT Voltage Range	160~800Vdc			
<b>GRID/GENERATOR INPUT</b>				
Input Voltage Range	Phase Voltage: 170V~280V; Line Voltage: 305V~485V			
Input Frequency Range	50Hz / 60Hz			
Bypass Overload Current	70A			
<b>EFFICIENCY</b>				
MPPT Tracking Efficiency	99.9%			
Max. Efficiency	≥97.8%			
European Efficiency	97.2%	97.5%	97.5%	
<b>GENERAL DATA</b>				
Parallel Capacity	1~9 Units			
Dimensions	800x470x313mm	Humidity Range	0~100%	
Weight	59.5kg	Cooling Method	Heat sink + intelligent fan cooling	
Protection Level	IP65	Noise	<55dB	
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,VDE4105,IEC62109-1, IEC62109-2,EN61000-6-1, EN61000-6-3, FCC 15 class B, RoHS			
<b>PROTECTION</b>				
PV lightning protection, anti-islanding protection, reverse connection protection for PV input, insulation resistance detection, leakage current detection, output overcurrent protection, output short-circuit protection				
Overvoltage Protection Level	AC type II/DC type III	Surge Protection	AC type II/DC type II	



# SEI Series

## Three-Phase Hybrid Solar Storage 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 260A charging current
- Supports Li-ion battery BMS communication

### Reliable

- Support three-phase pure sine wave output
- 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



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# Three-Phase Hybrid Solar Storage Inverter



MODEL	SEI-8K-H3P	SEI-10K-H3P	SEI-12K-H3P	Can Be Set
<b>INVERTER OUTPUT</b>				
Rated Output Power	8,000W	10,000W	12,000W	
Max.Peak Power	16,000VA	20,000VA	24,000VA	
Rated Output Voltage	230/400Vac , Three-phase			√
Load Capacity of Motors	5HP	6HP		
Output Frequency	50/60Hz			
Number of Parallel	1~6 units			
<b>AC OUTPUT (ON-GRID)</b>				
Rated Output Power	8,000W	10,000W	12,000W	
Max. Apparent Power	8,000VA	10,000VA	12,000VA	
Rated AC output phase current	11.6Aac	14.5Aac	17.4Aac	
Rated Output Voltage	230/400Vac			
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	100A		120A	
Max. Grid Charging Current	100A		120A	
Max.Hybrid Charging Current	180A	220A	260A	√
<b>PV INPUT</b>				
Num. of MPPT Trackers	2			
Max.PV Array Power	6,000W+6,000W	7,500W+7,500W	9,000W+9,000W	
Max. Input Current	22A+22A			
Max.PV Isc	37A+37A			
Max.Voltage of Open Circuit	800Vdc+800Vdc			
MPPT Voltage Range	200~650Vdc			
<b>MAINS/GENERATOR INPUT</b>				
Input Voltage Range	Phase voltage 170~280Vac, line voltage 305~485Vac			√
Frequency Range	50/60Hz			
Bypass Overload Current	23.2A	29A	35A	
<b>EFFICIENCY</b>				
MPPT Tracking Efficiency	99.9%			
Max. Efficiency	97.5%			
European Efficiency	97.2%	97.5%		
<b>GENERAL</b>				
Dimensions	700*440*260mm			
Weight	39.2kg			
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			