

SEI-50K-H3P

Three-Phase Hybrid Solar Storage Inverter



Efficiency

- 4 independent MPPT trackers, compatible with high-power PV modules
- DC over-sizing up to 1.8x

Safety

- DC arc fault detection
- AC/DC Surge Protection (Level II)
- IP65 waterproof protection degree

Reliable

- Battery charge/discharge current 75A*2
- Max. AC grid-connected overload output of 1.1x
- 100% three-phase unbalanced load

All in one

- Ultra-wide battery voltage range (150–820Vdc)
- Supports diesel generator input

SEI



House



Farm



Telecom



Countryside



Island



Pasture

Application scenario



Product Parameters

Model	SEI-50K-H3P		SEI-55K-H3P		SEI-60K-H3P	
AC Output						
Rated Output Power	50,000W		55,000W		60,000W	
Max. Apparent Power	60,000VA		60,500VA		66,000VA	
Peak Power (off-grid)	1.6 times of rated power, 10s			1.5 times of rated power, 10s		
Rated Output Voltage	220/380Vac, 230/400Vac (3L+N+PE)					
Rated Output Current	75.9A		83.6A		91.2A	
Max. Output Current	91.2A		91.9A		100.3A	
Load Motor Capacity	21HP		23HP		25HP	
Power Factor	0.8 leading to 0.8 lagging					
THDI	<3% (of nominal power)					
Rated Frequency	50/60Hz ±0.3Hz					
Switch Time	10ms (typical value)					
Waveform	Pure sine wave					
Battery						
Battery Type	Lithium-ion Battery					
Number of Battery Input	2					
Battery Voltage Range	150~820Vdc					
Max. Charging/Discharging Current	150A (75A+75A)					
PV Input						
No. Of MPPT Trackers	4					
Max. PV Access Power	100kW		110kW		120kW	
Max. PV Input Power	90,000W		90,000W		96,000W	
Rated PV Input Voltage	600Vdc					
Max. PV Input Voltage	1000Vdc					
Start-up Voltage	160Vdc					
Max. PV Input Current	40A*4					
Max. Short-circuit Current	60A*4					
MPPT Operating Voltage Range	150~850Vdc					
Grid/Generator Input						
Rated Input Phase Voltage	3L/N/PE; 220/380V; 230/400V					
Rated Input Frequency	50/60Hz					
Max. Bypass Overload Current	200A					
Efficiency						
MPPT Tracking Efficiency	>99%	Max. Efficiency	98.1%	European Efficiency	97.6%	
General Data						
Parallel Capacity	1~9 Units (More than 2 units in parallel can form a three-phase output)					
Dimensions	622x342x1010mm		Humidity Range		0~100%	
Weight	98kg		Cooling Method		Heat sink + intelligent fan cooling	
Protection Level	IP65		Noise		<65dB	
Temperature	-40~+60°C, >45°C Derate		Communication Port		RS485 / CAN / USB / Dry Contact	
Warranty	5 years		External Module		Wi-Fi/4G Stick (Optional)	
Protection						
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 III/DC type II		Surge Protection		AC type II/DC type II	