

Solar Hybrid Inverter

SEI-5.5K-S(PV: 500V; AC: 220/230V)



Functional characteristics

- It has the function of segmented charging and discharging.
- Backflow prevention and grid connection function.
- Insulation resistance and leakage current detection function.
- Working without battery under special conditions.
- Lithium battery activation function, which can be triggered by mains or PV.
- Power saving mode, reduce no-load loss.
- Four charging modes: PV Only, Mains Priority, PV Priority and PV&Mains hybrid charging.
- Two output modes: mains bypass and inverter output, with UPS function.
- 360 °all-round protection.
- Allow lead-acid battery and lithium battery access.
- ON/OFF switch controls the inverter AC output.

Design characteristics

- Adopting full-digital double closed loop control, combined with advanced SPWM technology and pure sine wave output.
- Advanced MPPT technology with efficiency of 99.9%.
- LCD screen and three LED indicator lights can clearly indicate the status and data.
- Intelligent and variable-speed fan, efficiently dissipate heat and extend system life.
- Multiple safety protection functions: short circuit protection, overload protection, reverse polarity protection and so on.

Product characteristics



①	AC Input Port	⑨	ON/OFF Switch
②	AC Output Port	⑩	PV Port
③	Communication Port 1	⑪	Cooling Fan
④	Communication Port 2	⑫	Cooling Fan
⑤	Communication Port 3	⑬	Light Touch Button
⑥	Communication Port 4	⑭	Indicator Light
⑦	Vent Valve	⑮	LCD Screen
⑧	Battery Input Port	⑯	Overload Protector

Parameters

Model	SEI-5.5K-S	Adjustable
Battery Input Parameters		
Battery Type	Lead-acid Battery or Lithium Battery	√
Rated Battery Input Voltage	48V (Minimum Startup Voltage 44V)	
Hybrid Charging Maximum Charging Current	100A	√
Battery Voltage Range	40Vdc~60Vdc ± 0.6Vdc(Undervoltage Warning/Shutdown Voltage/Overvoltage Warning/Overvoltage Recovery...)	√
Solar Input Parameters		
Maximum PV Open-circuit Voltage	500Vdc	
PV Working Voltage Range	120-500Vdc	
MPPT Voltage Range	120-450Vdc	
Maximum PV Input Current	22A	
Maximum PV Input Power	6000W	
Maximum PV Charging Current	100A	√
Mains Input Parameters		
Mains Maximum Charging Current	60A	√
Rated Input Voltage	220/230Vac	
Input Voltage Range	UPS Mains Mode: (170Vac~280Vac)±2% APL Generator Mode: (90Vac-280Vac)±2%	√
Frequency	50Hz/ 60Hz (Automatic Detection)	
Mains Charging Efficiency	>95%	
Switch Time (bypass and inverter)	10ms(Typical Value)	
Maximum Bypass Overload Current	40A	
AC Output Parameter		
Output Voltage Waveform	Pure Sine Wave	
Rated Output Voltage (Vac)	230Vac (200/208/220/240Vac)	√
Rated Output Power (VA)	5500(4780/4970/5260/5500)	
Rated Output Power(W)	5500(4780/4970/5260/5500)	
Peak Power	11000VA	
On-load Motor Capacity	4HP	
Output Frequency Range(Hz)	50Hz±0.3Hz/60Hz±0.3Hz	√
Maximum Efficiency	>90%	
No-load Loss	Non Energy-saving Mode: ≤50W Energy-saving Mode:≤25W (Manual Setup)	
Basic Parameters		
Certificate	CE(IEC 62109-1)	
EMC Certification Level	EN61000	
Working Temperature Range	-25°C ~ 55°C	
Storage Temperature Range	-25°C ~ 60°C	
Humidity Range	0% to 100%	
Waterproof Grade	IP65	
Size(L*W*D)	556mm*345mm*182mm	
Weight (kg)	19.2	