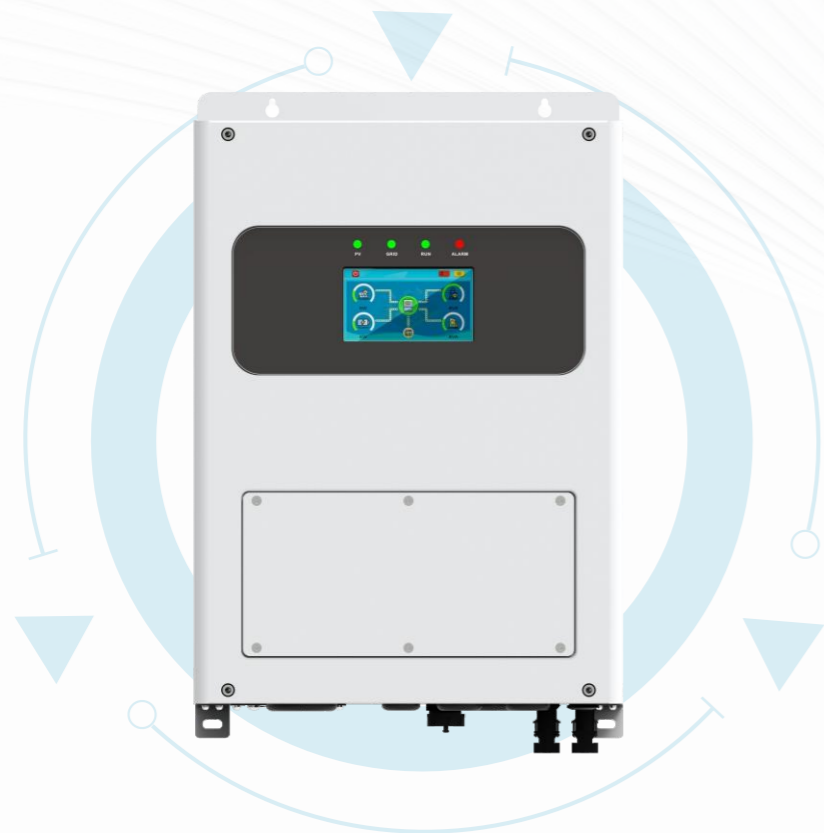


E2 SERIES SINGLE-PHASE HYBRID INVERTER

SS-H4K1L-E2 ~ SS-H6.6K1L-E2

4kW~6.6kW / BAT48V / 230Vac/IP65



Reliable performance

- Both the battery side and the load side have super strong load capacity, smooth voltage and current waveforms, and can drive inductive loads such as air conditioning, supporting unlimited load
- Independent intelligent load/generator interface, compatible with existing PV system access, can operate without batteries (PV+grid combined power supply).
- Even without a battery, it can be bypassed for output, important loads will not be powered off; The grid connected electricity sales function significantly improves energy utilization efficiency.

Super Protection

- AICOT islanding protection, IP65 protection level, anti backflow (internal/external), PV reverse alarm, External CT reverse connection alarm and open circuit detection functions.

Economic benefits

- 2 MPPT channel, PV input can exceed twice times the rated power, supporting simultaneous full power charging and load, maximizing economic benefits.
- Supports grid connected, off grid, and grid connected switching modes, with adaptive frequency and the ability to set charging and discharging strategies based on time of use electricity prices to achieve economical energy use.

Friendly Design

- High definition touch screen supports multiple languages; Removable dust cover suitable for harsh environments; Flexible setting of AC output voltage standards; Support battery activation function.

Parameters

MODEL	SS-H4K1L-E2	SS-H5K1L-E2	SS-H6K1L-E2	SS-H6.6K1L-E2
PV Input				
Max PV Input Power	4000W+4000W	5000W+5000W	6000W+6000W	6600W+6600W
Max PV Input Voltage	500Vdc			
PV Input Startup voltage	90Vdc			
MPPT Input Voltage	120-425Vdc			
MPPT Full Load Voltage Range	235-425Vdc	295-425Vdc	350-425Vdc	370-425Vdc
PV Max Input Current	18A+18A			
PV Short-circuit Current	26A			
Number of MPPT / Strings per MPPT	2/1+1			
AC Output				
Rated Output Voltage	220V/230Vac			
Output Frequency Range	50/60Hz(±5), Intelligent adaptive/Settable			
Rated Off-grid current	17.4A	21.8A	26.1A	28.7A
Max off-grid Power	4000W	5000W	6000W	6600W
Grid Type	Single Phase, L+N+PE			
Output Power Factor	> 0.99 @ Rated power (Adjustable 0.8 leading-0.8 lagging)			
THDv	< 3%			
Transfer Time	≤10ms			
Off-grid Overload Capability	101%-110% 30s, >110% 10s			
Bypass overvoltage capability	≤120%, Long-term			
Battery Input				
Battery Type	Lead-acid, lithium batteries, gel batteries, etc			
Battery Voltage	48Vdc(40V~60V)			
Max Discharge Current	100A	110A	120A	120A
Max Charging Current	100A	110A	120A	120A
Max Discharge Power	4000W	5000W	6000W	6000W
Max Charging Power	4000W	5000W	6000W	6000W
AC Input				
Max. Input Power	4000W	5000W	6000W	6600W
Rated Input Voltage	150-290Vac (140-310V Optional)			
Rated Input Frequency	50/60Hz(±5), Intelligent adaptive/Settable			
Grid Input Current	30A	40A		
Efficiency				
Max PV Conversion Efficiency	97.6%			
European Efficiency	96.5%			
MPPT Efficiency	> 99%			
General Parameters				
Display	Touch Screen+LED			
Communication Mode	RS485/CAN, GPRS/WIFI/Bluetooth/4G/LAN (Optional)			
Protection function	Grid/battery over- and undervoltage protection, Grid over- and underfrequency protection, Output short circuit/overload protection, PV reverse connection alarm, Battery charge and discharge overcurrent protection, Insulation impedance protection, Ground fault protection			
Noise (dB)	< 55			
Cooling	Intelligent fan (IP68)			
Operating Ambient Temperature	-40°C~60°C(> 45°C Derating)			
Humidity	0~100%			
Altitude	3000m (>2000m Derating)			
Protection Degree	IP65			
Installation Method	Wall-mounted			
Dimension. W*D*H(mm)	320*170*440			
Gross Weight (kg)	14	14.5	15	
Warranty	5 years standard			
Certifications				
Certification standard	IEC/EN 61000-6-1/3、IEC/EN 61000-3-11/12、EN 62920、IEC 62109-1、IEC 62109-2、IEC 62321			

Specifications are subject to change without advance notice.