

## SSA-HL5~6K-P1EU\_DO

Single Phase | Dual AC Outputs | Off-Grid

The SSA-HL5~6K-P1EU\_DO is a compact 6kW off-grid hybrid inverter with up to 9kW PV input and 500V max PV input voltage. It features dual AC outputs, supports operation with or without batteries, and is compatible with grid or generator input. With smart MPPT, priority settings, WiFi monitoring, and an intuitive LCD, it ensures flexible system control. Designed for -10°C to +60°C, it's ideal for harsh environments such as remote homes, islands, and backup systems.



### High PV Input Capacity

- Supports up to 9kW solar input, with 500V max voltage and 27A max current



### Multi-Power & Dual AC Output

- Supports grid, generator, battery or battery-less operation; features dual AC output ports



### Intelligent MPPT & Priority

- Smart MPPT control with configurable PV/grid priority settings



### Remote Monitoring & Display

- Built-in WiFi for remote monitoring and LCD screen for real-time data



### Compact Size with Higher Power

- 6kW output in a smaller, lighter chassis for flexible installation



### Extreme Temperature Tolerance

- Reliable operation from -10°C to +60°C

TECHNICAL SPECIFICATION		
Model	SSA-HL5K-P1EU_DO-E	SSA-HL6K-P1EU_DO
AC INPUT		
Rated Voltage	220 / 230 / 240Va.c.,L+N+PE	
Rated Frequency (Hz)	50 / 60	
Current (Maximum Continuous) (A a.c.)	40 (Bypass mode)	
INVERTER OUTPUT		
Rated Power (kW)	5	6
Rated Voltage	220 / 230 / 240Va.c.,L1+N1+L2+N2+PE	
Power Factor	1	
Wave Form	Pure Sine Wave	
Switch Time (ms)	<10	
Inverter Efficiency (Peak)	93.5% (Max)	94%@48V d.c.
Current (Maximum Continuous (A a.c.)	22.7	27.3
Maximum Output Overcurrent Protection	102%~110% 60s, 110%~130% 10s, 130%~150% 3s, >150% 0.2s	
BATTERY		
Battery Type	Li-ion/Lead-acid	
Rated Battery Voltage (V d.c.)	24	48
Battery Voltage Range (V d.c.)	21~30.2	42~56.4
Max.Charge Current (A d.c.)	160	120
PV INPUT		
No.of MPPT Tracker / Strings	1	
Max.PV Array Power (kW)	9	
Max.Dc Voltage (V d.c.)	500	
MPPT Voltage Range (V d.c.)	60 ~ 450	
Start-up Voltage (V d.c.)	80	
MPPT Maximum Charge Current (A d.c.)	160	120
Max.Input Current (A d.c.)	27	
Isc PV (Absolute Maximum) (A d.c.)	30	
PROTECTION & FEATURE		
Parallel Function	NO	Yes (up to 9pcs,optional)
Protection Degree	IP20, Indoor Only	
Certifications	IEC 62109-1/2, EN IEC 61000-6-1, EN IEC 61000-6-3	
Other Protection	Over voltage Protection; Over load protection; Short circuit protection; Over temperature protection; Surge protection	
GENERAL PARAMETER		
Storage Temperature	-15℃ ~ +60℃	
Operating Temperature	-10℃ ~ +60℃	
Humidity	5% ~ 95% (Non-condensing)	
Operating Altitude (m)	4000 (>1000 Derating)	
Noise (dB)	<55	
Machine Dimensions (W*H*D) (mm)	413*334*116	
Machine Weight / N.W. (kg)	8.8	
DISPLAY AND COMMUNICATION		
Display	LCD Display (Display Running Mode,Loads / Input / Output etc.)	
Interface	RS485 / CAN / WiFi(Optional)	

- The AC voltage and frequency range can differ according to the grid standards of each country.
- Please note that all specifications are subject to change without prior notice.