

# SSA-HL1.2~5.5K-P1EU

## Single Phase I Hybrid Inverter (Off-Grid)

The SSA-HL1.2~5.5K-P1EU series, ranging from 1.2kW to 5.5kW, are perfect for residential and indoor applications, delivering efficient energy conversion and flexible storage solutions. With an integrated MPPT controller and equalize charge control, they enhance battery performance and lifespan. Supporting up to 6kW PV input power, they seamlessly combine PV and utility loads. The system is expandable with 9 parallel units, and optional WiFi allows for easy remote monitoring and management.



Integrated MPPT controller



6kW maximum PV input power



Up to 9 parallel units



Combined PV and utility load



Optional WiFi for remote monitoring



Work with or without battery

TECHNICAL SPECIFICATION						
Model	SSA-HL1K2-P1EU	SSA-HL2K-P1EU	SSA-HL3K6-P1EU	SSA-HL5K-P1EU	SSA-HL5K5-P1EU	SSA-HL5K-P1EU <sup>[1]</sup> <sub>DO</sub>
<b>AC INPUT</b>						
Rated Voltage (V a.c.)	208 / 220 / 230 / 240, L+N+PE					
Rated Frequency (Hz)	50 / 60					
Current (Maximum Continuous) (A a.c.)	10	17	20	40	40	40
<b>INVERTER OUTPUT</b>						
Rated Power (kW)	1.2	2	3.6	5	5.5	5
Rated Voltage (V a.c.)	208 / 220 / 230 / 240, L+N+PE					L1+N1+L2+N2+PE
Power Factor	1					
Wave Form	Pure Sine Wave					
Switch Time (ms)	<10 (Typical)					
Inverter Efficiency (Peak)	90.5%@12V d.c.	91%@12V d.c.	92.7%@24V d.c.	94%@48V d.c.	94%@48V d.c.	94%@48V d.c.
Current (Maximum Continuous) (A a.c.)	5.2	8.7	15.6	22.7	25	22.7
Maximum Output Overcurrent Protection	102%~110% 1min / 110%~130% 10s / 130%~150% 3s / 150% 0.2s					
<b>BATTERY</b>						
Battery Type	12Lithium / Lead-acid					
Rated Battery Voltage (V d.c.)	12	12	24	48	48	48
Battery Voltage Range (V d.c.)	10~15	10~15	21~30.2	42~56.4	42~56.4	42~56.4
Max.Charge Current (A d.c.)	120	100	100	80	100	80
<b>PV INPUT</b>						
No of MPPT Tracker / Strings	1 / 1					
Max. PV Array Power (kW)	1	3	5	6	6	6
Max. DC Voltage (V d.c.)	125	450	500	500	500	500
MPPT Voltage Range (V d.c.)	15~100	30~400	40~450	120~430	120~430	120~430
Start-up Voltage (V d.c.)	20	40	120	120	120	120
MPPT Maximum Charge Current (A d.c.)	60	100	100	80	100	80
Max. Input Current (A d.c.)	14	18	18	18	18	18
Isc PV (Absolute Maximum) (A d.c.)	15	22	22	22	22	22
<b>PROTECTION &amp; FEATURE</b>						
Parallel Function	No	No	No	Yes (9pcs, optional)	No	Yes (9pcs, optional)
Protection Degree	IP20, Indoor only					
Certifications	IEC 62109-1/2, EN IEC 61000-6-1, EN IEC 61000-6-3					
Other Protection	Overload, Over temperature, Short circuit					
<b>GENERAL PARAMETER</b>						
Storage Temperature	-15°C~+60°C					
Operating Temperature	-10°C~+50°C					
Humidity	20%~95% (Non-condensing)					
Operating Altitude (m)	4000 (>1000 Derating)					
Noise (dB)	<50					
Machine Dimensions (W*H*D) (mm)	330*228*90	270*311*100	285*435*100	315*470*120	315*470*120	315*528*120
Machine Weight / N.W. (kg)	3.2	4.5	6.5	8.6	8.6	9.6
<b>DISPLAY AND COMMUNICATION</b>						
Display	LCD Display (Display Running Mode, Loads / Input / Output etc.)					
Interface	RS485 / CAN / Dry Contact / WiFi (Optional)					

• Please note that all specifications are subject to change without prior notice.

[1]: SSA-HL5K-P1EU\_DO is a dual output model with two output ports.