

# SSA-HL6K-P1EU\_DO

Single Phase | Dual AC Outputs | Off-Grid

The SSA-HL6K-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-HL6K-P1EU_DO   |
| <b>AC INPUT</b>                       |  |
| Rated Voltage                         | 208 /220 / 230 / 240Va.c.,L+N+PE                               |
| Rated Frequency (Hz)                  | 50 / 60  |
| Current (Maximum Continuous) (A a.c.) | 40   |
| <b>INVERTER OUTPUT</b>                |  |
| Rated Power (kW)                      | 6  |
| Rated Voltage                         | L1+N1+L2+N2+PE   |
| Power Factor                          | 1  |
| Wave Form                             | Pure Sine Wave   |
| Switch Time (ms)                      | <10 (Typical)  |
| Inverter Efficiency (Peak)            | 94%@48V d.c.   |
| Current (Maximum Continuous) (A a.c.) | 27.3   |
| Maximum Output Overcurrent Protection | 102%~120% 1min / >120% 10s                                     |
| <b>BATTERY</b>                        |  |
| Battery Type                          | Lithium / Lead-acid  |
| Rated Battery Voltage (V d.c.)        | 48   |
| Battery Voltage Range (V d.c.)        | 42~56.4  |
| Max.Charge Current (A d.c.)           | 120  |
| <b>PV INPUT</b>                       |  |
| No.of MPPT Tracker / Strings          | 1 / 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.)  | 120  |
| Max.Input Current (A d.c.)            | 27   |
| Isc PV (Absolute Maximum) (A d.c.)    | 30   |
| <b>PROTECTION &amp; FEATURE</b>       |  |
| Parallel Function                     | NO   |
| Protection Degree                     | IP20, Indoor Only  |
| Certifications                        | CE (IEC62109-1), EN61000 NRS                                   |
| Other Protection                      | Overload, Over temperature, Short circuit                      |
| <b>GENERAL PARAMETER</b>              |  |
| Storage Temperature                   | -15°C ~ +60°C  |
| Operating Temperature                 | -10°C ~ +60°C  |
| Humidity                              | 20% ~ 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  |
| <b>DISPLAY AND COMMUNICATION</b>      |  |
| 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.