



Residential Use

IP 65

10-Year Warranty



**Easy Access**  
Accessible via WiFi and the web



**Diverse Modes**  
Various application modes to accommodate different battery packs, photovoltaic panels, and loads



**Diverse Interface**  
Includes interfaces such as a lithium battery BMS communication card and a WiFi card



**Flexibility**  
Supports single-phase 100% unbalanced load operation off-grid, adapting to various load scenarios

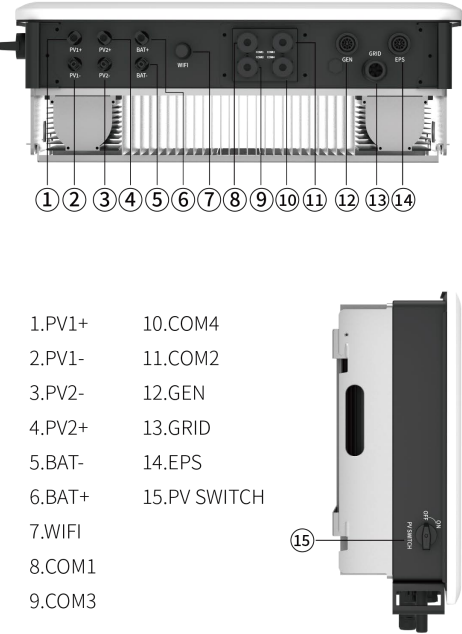


**Safe**  
Comprehensive 360-degree security from hardware to software

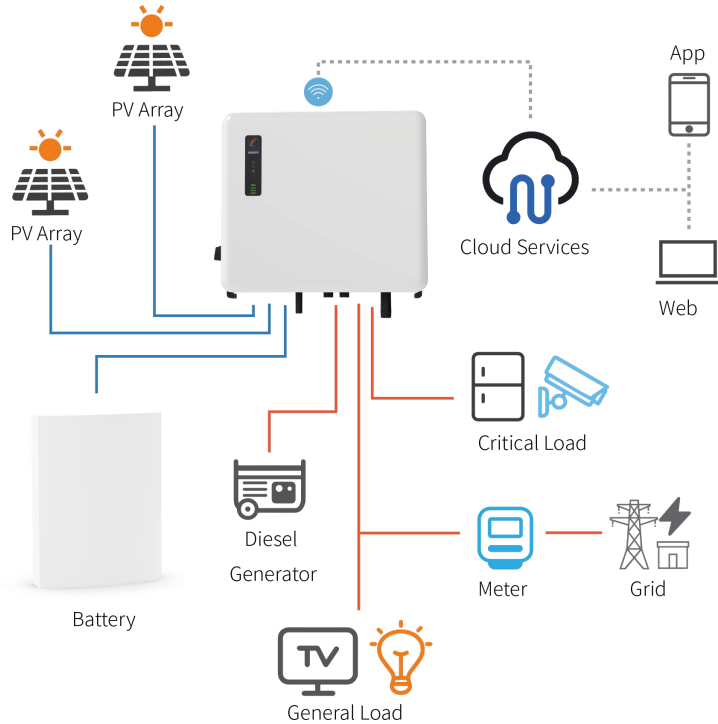


**IP65**  
Fanless design for a long lifespan

Port Description



Product Application Diagram



| TECHNICAL SPECIFICATION            |                                                                                                                                                    |                |                |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|
| Model                              | SSE-HH8K-P3EU                                                                                                                                      | SSE-HH10K-P3EU | SSE-HH12K-P3EU |
| INVERTER INPUT / OUTPUT (GRID)     |                                                                                                                                                    |                |                |
| Rated Power                        | 8 kW                                                                                                                                               | 10 kW          | 12 kW          |
| Voltage (Nominal or Range)         | 400 V a.c. /230 V a.c., 3W+N+PE                                                                                                                    |                |                |
| Frequency (Nominal or Range)       | 50 / 60 Hz                                                                                                                                         |                |                |
| Power Factor Range                 | 0.8 leading ~ 0.8 lagging                                                                                                                          |                |                |
| Wave Form                          | Pure Sine Wave                                                                                                                                     |                |                |
| Switch Time                        | <10 ms                                                                                                                                             |                |                |
| Current (Maximum Continuous)       | 12.8 A a.c.                                                                                                                                        | 15.9 A a.c.    | 19.1 A a.c.    |
| Max. Output Overcurrent Protection | 400 V a.c. / 60 A a.c.                                                                                                                             |                |                |
| BATTERY                            |                                                                                                                                                    |                |                |
| Battery Type                       | Lithium/Lead-acid                                                                                                                                  |                |                |
| Battery Voltage Range              | 125~800 V d.c.                                                                                                                                     |                |                |
| Nominal Battery Voltage            | 200~800 V d.c.                                                                                                                                     | 250~800 V d.c. | 300~800 V d.c. |
| Max. Charge Current                | 40 A d.c.                                                                                                                                          |                |                |
| Max. Discharge Current             | 40 A d.c.                                                                                                                                          |                |                |
| Reverse Connect Protection         | Yes                                                                                                                                                |                |                |
| PV INPUT                           |                                                                                                                                                    |                |                |
| No. of MPPT Tracker/Strings        | 2/1+1                                                                                                                                              |                |                |
| Max. PV Array Power                | 12 kW                                                                                                                                              | 15 kW          | 18 kW          |
| Max. DC Voltage                    | 1000 V d.c.                                                                                                                                        |                |                |
| MPPT Voltage Range                 | 150 ~950 V d.c.                                                                                                                                    |                |                |
| Start-up Voltage                   | 200 V d.c.                                                                                                                                         |                |                |
| Max. Input Current                 | 16/16 A d.c.                                                                                                                                       |                |                |
| Isc PV (Absolute Maximum)          | 24/24 A d.c.                                                                                                                                       |                |                |
| AC OUTPUT (EPS)                    |                                                                                                                                                    |                |                |
| EPS Rated Output Voltage           | 400 V a.c. / 230 V a.c.,3W+N+PE                                                                                                                    |                |                |
| EPS Rated Output Frequency         | 50 / 60 Hz                                                                                                                                         |                |                |
| EPS Rated Output Active Power      | 8 kW                                                                                                                                               | 10 kW          | 12 kW          |
| EPS Rated Output Apparent Power    | 8 kVA                                                                                                                                              | 10 kVA         | 12 kVA         |
| EPS Rated Output Current           | 11.6 A a.c.                                                                                                                                        | 14.5 A a.c.    | 17.4 A a.c.    |
| EPS Output Power Factor            | 0.8 leading ~ 0.8 lagging                                                                                                                          |                |                |
| Overload Capacity                  | 110% 30 s / 120% 10 s / 150% 0.2 s                                                                                                                 |                |                |
| EPS Output Inrush Current          | 50 A a.c. @10 ms                                                                                                                                   |                |                |
| EPS Max. Output Fault Current      | 50 A a.c. @10 ms                                                                                                                                   |                |                |
| EFFICIENCY                         |                                                                                                                                                    |                |                |
| MPPT Efficiency                    | 99.90%                                                                                                                                             |                |                |
| Euro-efficiency                    | 97.50%                                                                                                                                             |                |                |
| Max. Efficiency                    | 98%                                                                                                                                                |                |                |
| PROTECTION & FEATURE               |                                                                                                                                                    |                |                |
| Insulation Monitoring              | Yes                                                                                                                                                |                |                |
| Residual Current Monitoring        | Yes                                                                                                                                                |                |                |
| Parallel Function                  | Yes                                                                                                                                                |                |                |
| Protection Degree                  | IP65                                                                                                                                               |                |                |
| Certifications                     | CEI0-21, EN 50549 -1, VDE -AR-N 4105, UNE 217002,IEC62109-1/2 , IEC61000, NTS631                                                                   |                |                |
| Other Protection                   | Output over voltage protection, Output over current protection, Short circuit protection, Surge protection, Temperature protection, Anti-islanding |                |                |
| GENERAL PARAMETER                  |                                                                                                                                                    |                |                |
| Storage Temperature                | -25°C ~60°C                                                                                                                                        |                |                |
| Operating Temperature              | -25°C ~ 60°C (Linely derating to 60% when exceed 45°C ~ 60°C)                                                                                      |                |                |
| Humidity                           | 0~100% (No-condensing)                                                                                                                             |                |                |
| Altitude                           | 4,000m (>2,000m Derating)                                                                                                                          |                |                |
| Noise                              | < 35 dB                                                                                                                                            |                |                |
| Dimensions (L*W*H)                 | 600*210*530 mm                                                                                                                                     |                |                |
| Shipping Dimensions (L*W*H)        | 660*250* 580 mm                                                                                                                                    |                |                |
| Machine Weight/ N.W.               | 35 kg                                                                                                                                              |                |                |
| DISPLAY& COMMUNICATION             |                                                                                                                                                    |                |                |
| Display                            | LED                                                                                                                                                |                |                |
| Interface                          | RS485 / WiFi / 4G / Bluetooth / CAN / DRM                                                                                                          |                |                |