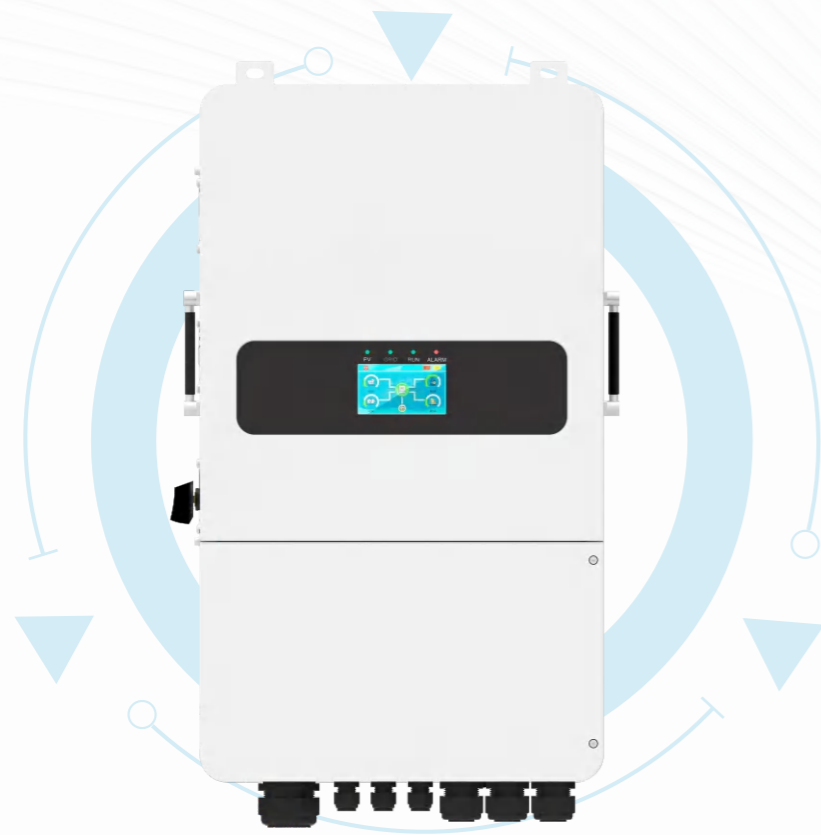


# E3 SERIES THREE-PHASE HYBRID INVERTER

## SS-H8.5K3L-E3 ~ SS-H15.5K3L-E3

8.5kW~15.5kW / BAT48V / IP66

220/380Vac , 230/400Vac



### 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, and important loads will not be powered off; Dynamically adapt to high-power demands.

### Super Protection

- AICOT islanding protection, IP66 protection, PV reverse connection alarm, external CT reverse connection alarm and open circuit detection, three-phase independent anti backflow, three-phase phase sequence detection, and zero ground detection.

### 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; Charge discharge three-level transformation technology; Customized AC output voltage standard; Battery closing soft start and battery activation function.

## Parameters

| MODEL                             | SS-H8.5K3L-E3   | SS-H10.5K3L-E3 | SS-H12.5K3L-E3 | SS-H15.5K3L-E3 |
|-----------------------------------|---|----------------|----------------|----------------|
| <b>PV Input</b>                   |   |                |                |                |
| Max PV Input Power                | 17000W  | 21000W         | 25000W         | 31000W         |
| Max PV Input Voltage              | 1000Vdc   |                |                |                |
| PV Input Starting Voltage         | 120Vdc  |                |                |                |
| MPPT Input Voltage                | 120~850Vdc  |                |                |                |
| MPPT Full Load Voltage Range      | 300~850Vdc  | 245~850Vdc     | 295~850Vdc     | 272~850Vdc     |
| PV Max Input Current              | 15A+15A   | 30A+15A        |                | 30A+30A        |
| PV Short-circuit Current          | 17A+17A   | 34A+17A        |                | 34A+34A        |
| Number of MPPT / Strings per MPPT | 2/1+1   | 2/2+1          |                | 2/2+2          |
| <b>AC Output</b>                  |   |                |                |                |
| Rated Output Voltage              | 220/380Vac, 230/400Vac  |                |                |                |
| Grid Voltage Range                | Local grid standard mode / Custom mode: 220Vac~400Vac (configurable)  |                |                |                |
| Output Frequency Range            | 50/60Hz(±5), Intelligent adaptive/Settable  |                |                |                |
| Max Output Current                | 13.5A   | 16.7A          | 19.9A          | 24.7A          |
| Rated Grid-connected Current      | 12.9/12.3A  | 15.9/15.2A     | 18.9/18.1A     | 23.5/22.5A     |
| Rated Grid-connected Power        | 8500W   | 10500W         | 12500W         | 15500W         |
| Max Grid-connected Viewing Power  | 8925VA  | 11025VA        | 13125VA        | 16275VA        |
| Max Grid-connected Active Power   | 8925W   | 11025W         | 13125W         | 16275W         |
| DC Component                      | < 0.5% In (Rated current)   |                |                |                |
| Grid Type                         | Three-phase, 3L+N+PE / 3L+PE (Adjustable)   |                |                |                |
| Output Power Factor(cosφ)         | > 0.99 @ Rated power (Adjustable 0.8 leading~0.8 lagging)   |                |                |                |
| THDi                              | < 3%  |                |                |                |
| THDu                              | < 2%(Linear load)   |                |                |                |
| Transfer Time                     | 10ms(Typical value)   |                |                |                |
| Off-grid Overload Capability      | 100%-110% 3min, 110%-125% 1min, >125% 10S   |                |                |                |
| <b>Battery Input</b>              |   |                |                |                |
| Battery Type                      | Lead-acid, lithium batteries, gel batteries, etc  |                |                |                |
| Charging Mode                     | 3-section Type/Equilibrium/Self-adaption BMS  |                |                |                |
| Battery Voltage range             | 40~60V  |                |                |                |
| Max Discharge/Charging Current    | 180A  | 220A           | 250A           | 280A           |
| Rated Discharge/Charging Current  | 8500W   | 10500W         | 12500W         | 15500W         |
| <b>Efficiency</b>                 |   |                |                |                |
| Max PV Conversion Efficiency      | 97.6%   |                |                |                |
| European Efficiency               | 97.0%   |                |                |                |
| MPPT Efficiency                   | > 99%   |                |                |                |
| <b>General Parameters</b>         |   |                |                |                |
| Display                           | Touch Screen+LED  |                |                |                |
| Communication Mode                | Standard: RS485/CAN/DRM, Optional 4G/WIFI/GPRS  |                |                |                |
| Protection function               | Over/Under Volt Prot., Over/Under Freq Prot., AC Out SC/OL Prot., Anti-Island Prot., Batt Chg/Dchg OC Prot., Leakage Curr Prot., Insul Imped Prot., Grd Fault Prot., PV Rev Conn Alarm                  |                |                |                |
| Surge Protection                  | DC Type II / AC Type III  |                |                |                |
| Noise (dB)                        | < 55  |                |                |                |
| Cooling                           | Intelligent forced air cooling  |                |                |                |
| Operating Ambient Temperature     | -25°C ~ 60°C(> 45°C Derating )  |                |                |                |
| Humidity                          | 0~100%  |                |                |                |
| Altitude                          | 4000m (>2000m Derating )  |                |                |                |
| Protection Degree                 | IP66  |                |                |                |
| Installation Method               | Wall-mounted  |                |                |                |
| Dimension. W*D*H(mm)              | 474*246*835   |                |                |                |
| Weight (kg)                       | 38  | 40             | 47             |                |
| Warranty                          | 5 years standard/10 years optional  |                |                |                |
| <b>Certifications</b>             |   |                |                |                |
| Certification standard            | IEC 62109-2 2011, IEC 62109-1 2010, EN/IEC 50549-10, VDE-4105, EC 60529:1989/AMD:2013, GB/T 4208-2017<br>EN/IEC 61000-6-3:2021, EN 61000-3-12:2011, EN/IEC 61000-3-12:2019, EN/IEC 61000-6-1:2019, RoHS |                |                |                |

Specifications are subject to change without advance notice.