

# SPLIT PHASE HYBRID INVERTER

## SE 5/6/7.6/10/11.4KHB-UL

Application: Residential Use



### MAXIMIZE PV INPUT POWER

- Up to 200% oversizing allowed with 3 MPPTs
- Support high power module with 30A PV input current
- Support AC coupled solar input
- Integrated arc fault circuit interrupter (AFCI) and rapid shutdown



### VERSATILE APPLICATIONS

- Stackable up to 9 units
- Standby generator connection for whole-home back up
- Four application modes, mixed with time control
- Remote configuration and upgrade



### FLEXIBLE BATTERY CONFIGURATION

- Built-in DC Breaker for safety and reliability
- Support 40-64V Lithium or Lead-acid battery
- Maximum battery charge/discharge current of 210A



### STABLE OUTPUT POWER

- Continuous 110% of nominal AC power
- Support 120/240/208V connections
- Seamless backup transition (<10ms)



| Model                           | SE 5KHB-130-D2/UL  | SE 6KHB-130-D2/UL | SE 7K6HB-180 T2/UL | SE 10KHB-210-T2/UL | SE 11K4HB-210 T2/UL |
|---------------------------------|--|-------------------|--------------------|--------------------|---------------------|
| <b>Efficiency</b>               |  |                   |                    |                    |                     |
| Max. Efficiency (PV to AC)      | 98.0%  |                   |                    |                    |                     |
| Max. Efficiency (BAT to AC)     | 94.5%  |                   |                    |                    |                     |
| CEC. Efficiency                 | 96.5%  |                   |                    |                    |                     |
| <b>Input (PV)</b>               |  |                   |                    |                    |                     |
| Max. PV Input Power             | 7,500W   | 9,000W            | 12,000W            | 15,000W            | 15,000W             |
| Max. PV Voltage                 | 600V   |                   |                    |                    |                     |
| Start-up Voltage                | 90V  |                   |                    |                    |                     |
| MPPT Operating Voltage Range    | 70V-540V   |                   |                    |                    |                     |
| Max. Input Current per MPPT     | 30A/22A  |                   | 30A/22A/22A        |                    |                     |
| Max short current per MPPT      | 40A/30A  |                   | 40A/30A/30A        |                    |                     |
| String per MPPT                 | 2/2  |                   | 2/2/2              |                    |                     |
| Nos. of MPPT                    | 2  |                   | 3                  |                    |                     |
| <b>Input/Output (BAT)</b>       |  |                   |                    |                    |                     |
| Battery Type                    | Lithium-ion/Lead-acid  |                   |                    |                    |                     |
| Nominal Battery Voltage         | 48V  |                   |                    |                    |                     |
| Battery Voltage Range           | 40V-64V  |                   |                    |                    |                     |
| Max. Charge/Discharge Current   | 210A/130A  | 210A/130A         | 210A/180A          | 210A/210A          | 210A/210A           |
| Max. Charge/Discharge Power     | 10,000W/5,000W   | 10,000W/6,000W    | 10,000W/7,600W     | 10,000W/10,000W    | 10,000W/10,000W     |
| <b>Output (Grid)</b>            |  |                   |                    |                    |                     |
| Nominal AC Output Power         | 5,000W   | 6,000W            | 7,600W             | 10,000W            | 10,000W             |
| Max. AC Output Apparent Power   | 5,500VA  | 6,600VA           | 7,600VA            | 11,000VA           | 11,400VA            |
| Max. AC Output Power (PF=1)     | 5,500W   | 6,600W            | 7,600W             | 11,000W            | 11,400W             |
| Nominal AC Output Current       | 20.9A  | 25A               | 31.7A              | 41.7A              | 41.7A               |
| Max. AC Output Current          | 22.9A  | 27.5A             | 34.8A              | 45.8A              | 47.5A               |
| Nominal Grid Voltage            | 120V/240V (Split phase) / 208V (2/3 phase)                             |                   |                    |                    |                     |
| Nominal Grid Frequency          | 50Hz /60Hz   |                   |                    |                    |                     |
| Grid Frequency Range            | 45Hz-55Hz/55Hz-65Hz (Adjustable)                                       |                   |                    |                    |                     |
| Power Factor                    | > 0.99 @rated power (Adjustable 0.8 LD - 0.8 LG)                       |                   |                    |                    |                     |
| THDI                            | <3% (Rated Power)  |                   |                    |                    |                     |
| <b>Output (Back up)</b>         |  |                   |                    |                    |                     |
| Nominal Output Power            | 5,000W   | 6,000W            | 7,600W             | 10,000W            | 10,000W             |
| Max. AC Output Power (PF=1)     | 5,500W   | 6,600W            | 7,600W             | 11,000W            | 11,400W             |
| Nominal Output Current          | 20.9A  | 25A               | 31.7A              | 41.7A              | 41.7A               |
| Peak Power (1s)                 | 10,000VA   | 12,000VA          | 15,200VA           | 20,000VA           | 20,000VA            |
| Nominal Output Voltage          | 120V/240V (Split phase) / 208V (2/3 phase)                             |                   |                    |                    |                     |
| Nominal Output Frequency        | 50Hz/60Hz  |                   |                    |                    |                     |
| Transfer Time                   | < 10ms (typical)   |                   |                    |                    |                     |
| THDV                            | <3% @100% R Load   |                   |                    |                    |                     |
| <b>Protection</b>               |  |                   |                    |                    |                     |
| Protection Category             | Class I  |                   |                    |                    |                     |
| DC Switch                       | Yes  |                   |                    |                    |                     |
| Anti-islanding Protection       | Yes  |                   |                    |                    |                     |
| AC Overcurrent Protection       | Yes  |                   |                    |                    |                     |
| DC/AC Overvoltage Protection    | DC Type II, AC Type III  |                   |                    |                    |                     |
| AC Short Circuit Protection     | Yes  |                   |                    |                    |                     |
| DC Reverse Protection           | Yes  |                   |                    |                    |                     |
| Surge Arrester                  | DC Type II, AC Type II   |                   |                    |                    |                     |
| Insulation Resistance Detection | Yes  |                   |                    |                    |                     |
| Leakage Current Protection      | Yes  |                   |                    |                    |                     |
| AFCI                            | Yes  |                   |                    |                    |                     |
| RSD                             | Yes  |                   |                    |                    |                     |
| Generator                       | Yes  |                   |                    |                    |                     |
| <b>General</b>                  |  |                   |                    |                    |                     |
| Max. Operation Altitude         | 2000m  |                   |                    |                    |                     |
| Ingress Protection Degree       | IP65/NEMA 3R   |                   |                    |                    |                     |
| Operating Temperature Range     | -25 C ~60 C (>45 C derating)   |                   |                    |                    |                     |
| Relative Humidity               | 0~100%   |                   |                    |                    |                     |
| Cooling Method                  | Fan Cooling  |                   |                    |                    |                     |
| Mounting                        | Wall bracket   |                   |                    |                    |                     |
| Dimensions (W*H*D)              | 16.5*31.5*9.4 inch (420mm*800mm*240mm)                                 |                   |                    |                    |                     |
| Weight                          | 40Kg/88lb  |                   |                    |                    |                     |
| PV Connection Way               | Terminals  |                   |                    |                    |                     |
| <b>HMI &amp; COM</b>            |  |                   |                    |                    |                     |
| Display                         | Wireless & APP + LED, LCD (optional)                                   |                   |                    |                    |                     |
| Communication Interface         | RS485/CAN (for BMS), DRM/RS485 (for meter), RS485, Optional: Wi-Fi/LAN |                   |                    |                    |                     |
| <b>Certification</b>            |  |                   |                    |                    |                     |
| Safety                          | UL 1741/CSA C22.2/UL 1699B   |                   |                    |                    |                     |
| Grid                            | UL1741SB, IEEE1547: 2018, HECO SRD 2.0                                 |                   |                    |                    |                     |
| EMC                             | FCC Part 15 Class B  |                   |                    |                    |                     |
| Warranty                        | 5 Years  |                   |                    |                    |                     |

Remarks: · The range of output voltage and frequency may vary depending on different grid codes.  
· Specifications are subject to change without advanced notice.