

SINGLE PHASE HYBRID INVERTER-LOW BAT VOLTAGE

SK 4.6/5/6KHB-60, SK 4.6/5/6KHB-120

Energy Storage Inverter



HIGH YIELD

- Max efficiency 97.3%, Battery efficiency 94%
- Max. Charge/Discharge Current 120A
- Reasonable energy control to increase the proportion of spontaneous use



HIGH RELIABILITY

- With BMS system to ensure high battery life
- Natural cooling design



INTELLIGENT MAINTENANCE

- Compatible with lead-acid batteries and lithium battery energy storage systems
- Remote configuration and upgrade

| Model | SK-4K6HB-60 | SK-4K6HB-120 | SK-5KHB-60 | SK-5KHB-120 | SK-6KHB-60 | SK-6KHB-120 |
|---|--|--------------|------------|-------------|------------|-------------|
| Efficiency | | | | | | |
| Max efficiency (PV to AC) | 97.3% | | | | | |
| Max efficiency (BAT to AC) | 94.0% | | | | | |
| Input (PV) | | | | | | |
| MAX PV Power (W) | 9000 | | | | | |
| Max PV voltage (V) | 550 | | | | | |
| Max input current (input A/input B) (A) | 15/15 | | | | | |
| Max short current (input A/input B) (A) | 20/20 | | | | | |
| Start operating voltage (V) | 90 | | | | | |
| MPPT voltage range (V) | 70-520 | | | | | |
| No. of MPPT trackers | 2 | | | | | |
| String per MPP tracker | 1 | | | | | |
| Input (BAT) | | | | | | |
| Compatible battery type | Lithium-ion/Lead-acid | | | | | |
| Nominal battery voltage (V) | 48 | | | | | |
| Battery voltage range (V) | 40-60 | | | | | |
| Max. charge/discharge current (A) | 60/60 | 120/120 | 60/60 | 120/120 | 60/60 | 120/120 |
| Max. charge/discharge power (W) | 3000/3000 | 5000/5000 | 3000/3000 | 5000/5000 | 3000/3000 | 6000/6000 |
| Lithium battery charge curve | Self-adaptation to BMS | | | | | |
| Output (Grid) | | | | | | |
| Nominal AC output power (W) | 4600 | 4600 | 5000 | 5000 | 6000 | 6000 |
| Max. AC output apparent power (VA) | 4600 | 4600 | 5500 | 5500 | 6000 | 6000 |
| Max. AC output power (PF=1) (W) | 4600 | 4600 | 5500 | 5500 | 6000 | 6000 |
| Max. AC output current (A) | 22 | 22 | 25 | 25 | 27.2 | 27.2 |
| Rated AC voltage (V) | 220 | | | | | |
| AC voltage range (V) | 150-300 (adjustable) | | | | | |
| Rated grid frequency (Hz) | 50/60 | | | | | |
| AC frequency range (Hz) | 45-55/55-65 (adjustable) | | | | | |
| Grid connection | single phase | | | | | |
| Power factor | > 0.99 @rated power (adjustable 0.8 LG - 0.8 LD) | | | | | |
| THDI | <3% | | | | | |
| Output (Back up) | | | | | | |
| Nominal output voltage (V) | 230 | | | | | |
| Nominal output frequency (Hz) | 50/60 | | | | | |
| Nominal output power (W) | 3000 | 4600 | 3000 | 5000 | 3000 | 6000 |
| Nominal output current (A) | 13 | 20 | 13 | 21.7 | 13 | 26 |
| Transfer time (ms) | 10(typ) / 20(max) | | | | | |
| THDV | <3% @100% R Load | | | | | |
| Protection | | | | | | |
| Protection category | Class I | | | | | |
| DC switch | Support | | | | | |
| Anti-islanding protection | Support | | | | | |
| AC overcurrent protection | Support | | | | | |
| AC short circuit protection | Support | | | | | |
| DC reverse connection | Support | | | | | |
| Surge Arrester | DC Type III, AC Type III | | | | | |
| Insulation detection | Support | | | | | |
| Leakage current protection | Support | | | | | |
| PV overvoltage category | II | | | | | |
| AC overvoltage category | III | | | | | |
| General | | | | | | |
| Max. operation altitude (m) | 4000 | | | | | |
| Noise emission (dB) | <35 | | | | | |
| Ingress protection degree | IP65 | | | | | |
| Operating temperature range (°C) | -25~60 | | | | | |
| Relative humidity (%) | 0~100 | | | | | |
| Cooling concept | Natural Cooling | | | | | |
| Mounting | Wall bracket | | | | | |
| Dimensions (W*H*D) | 515mm*450mm*175mm | | | | | |
| Weight | 20Kg | 25Kg | 20Kg | 25Kg | 20Kg | 25Kg |
| PV connection way | MC4/H4 | | | | | |
| Battery connection way | Dedicated DC connector | | | | | |
| AC connection way (grid & back up) | Dedicated AC connector | | | | | |
| HMI & COM | | | | | | |
| Display | LED+APP | | | | | |
| Communication interface | RS485/CAN (for BMS), RS485, USB, DRM/RS485 (for Meter), Optional: WiFi/GPRS/Ethernet | | | | | |
| Certification | | | | | | |
| Grid | VDE-AR-N4105, IEC 61727/62116, AS 4777.2, EN 50549-1 | | | | | |
| Safety | IEC62109-1&2, IEC62040-1, IEC62477-1 | | | | | |
| Warranty (years) | 5/10 (optional) | | | | | |

Remarks : • The range of output voltage and frequency may vary depending upon different grid codes.
• Specifications are subject to change without advance notice.