GOODWE





High Power Generation

- · 200% PV input oversizing
- · 4 MPPTs, Max. 16A DC input per string



Smart Control for Smart Energy

- · Smart home integration with multi-protocol communications
- · <10ms UPS-level switching



Superb Safety & Reliability

- · In-built Type II SPD on both DC&AC sides
- · IP65 ingress protection
- · Optional AFCI1



Flexible & Adaptable Applications

- · Whole home backup availability
- · Capable of forming a microgrid during blackouts



| Technical Data | GW5K-EHB-AU-G11 | GW8.6K-EHB-AU-G11 | GW9.99K-EHB-AU- |
|---|-----------------------|---------------------------------------|----------------------|
| Battery Input Data | | | |
| Battery Type | Li-Ion (BYD HVM & HVS | S, LG RESU 10H-Type R & Prime, G | OODWELX F & LX F G2) |
| Nominal Battery Voltage (V) | 350 | | |
| Battery Voltage Range (V)*1*7 | 80 ~ 495 | | |
| Number of Battery Input | | 1 | |
| Max. Continuous Charging Current (A) | | 50 | |
| Max. Continuous Discharging Current (A) | 5000 | 50 | 10000 |
| Max. Charging Power (W) | 5000 | 8600 | 10000 |
| Max. Discharging Power (W) | 5250 | 9030 | 10500 |
| PV String Input Data | | | |
| Max. Input Power (W)*6 | 10000 | 17200 | 20000 |
| Max. Input Voltage (V)*2 | | 600 | |
| MPPT Operating Voltage Range (V)*3 | | 80 ~ 550 | |
| Start-up Voltage (V) | | 95 | |
| Nominal Input Voltage (V) | | 380 | |
| Max. Input Current per MPPT (A) Max. Short Circuit Current per MPPT (A) | | 16 24 | |
| Number of MPP Trackers | 3 | 4 | 4 |
| Number of Strings per MPPT | | 1 | 4 |
| | | ı ı | |
| AC Output Data (On-grid) | | | |
| Nominal Output Power (W) | 5000 | 8600 | 9990 |
| Nominal Apparent Power Output to Utility Grid (VA) | 5000 | 8600 | 9990 |
| Max. Apparent Power Output to Utility Grid (VA)*4 | 5000 | 8600 | 9990 |
| Max. Apparent Power from Utility Grid (VA) | 5750 | 11500 230 | 11500 |
| Nominal Output Voltage (V) Output Voltage Range (V) | | 0 ~ 300 | |
| Nominal AC Grid Frequency (Hz) | | 50 | |
| AC Grid Frequency Range (Hz) | | 45 ~ 55 | |
| Max. AC Current Output to Utility Grid (A) | 21.7 | 37.4 | 43.4 |
| Max. AC Current From Utility Grid (A) | 25 | 50 | 50 |
| Power Factor | ~1 (A | Adjustable from 0.8 leading to 0.8 la | gging) |
| Max. Total Harmonic Distortion | | <3% | |
| AC Output Data (Back-up) | | | |
| Back-up Nominal Apparent Power (VA) | 5000 | 8600 | 9990 |
| Max. Output Apparent Power (VA)*4 | 5250 (7000@10sec) | 9030 (14000@10sec) | 10500 (14000@10sed |
| Max. Output Apparent Power with Grid (VA) | 5750 | 11500 | 11500 |
| Max. Output Current (A) | 22.8 | 39.3 | 45.7 |
| Nominal Output Voltage (V) | | 230 (±2%) | |
| Nominal Output Frequency (Hz) | | 50 (±0.2%) | |
| Output THDv (@Linear Load) | | <3% | |
| Efficiency | | | |
| Max, Efficiency | | 97.6% | |
| European Efficiency | | 97.0% | |
| Max. Battery to AC Efficiency | | 96.5% | |
| MPPT Efficiency | | 99.9% | |
| Protection | | | |
| PV Insulation Resistance Detection | | Integrated | |
| Residual Current Monitoring | | Integrated Integrated | |
| PV Reverse Polarity Protection | | Integrated | |
| Battery Reverse Polarity Protection | | Integrated | |
| Anti-islanding Protection | | Integrated | |
| AC Overcurrent Protection | | Integrated | |
| AC Short Circuit Protection | | Integrated | |
| AC Overvoltage Protection | | Integrated | |
| DC Switch | | Integrated | |
| AC Switch | | Integrated | |
| DC Surge Protection AC Surge Protection | | Type II Type II | |
| AFCI | | Optional | |
| Rapid Shutdown | | Optional | |
| General Data | | - p | |
| | | | |
| Operating Temperature Range (°C) | | -35 ~ +60 | |
| Relative Humidity | | 0 ~ 95% | |
| Max. Operating Altitude (m) | | 4000 | |
| Cooling Method | | Smart Fan Cooling | |
| User Interface | | LED, WLAN + APP RS485, CAN | |
| Communication with BMS Communication with Meter | | RS485, CAN RS485 | |
| Communication with Portal | | WiFi, LAN, 4G | |
| Weight (kg) | 29.5 | 33.0 | 33.0 |
| Dimension (W x H x D mm) | 20.0 | 415 × 791 × 180 | 55.0 |
| Topology | | Non-isolated | |
| Ingress Protection Rating | | IP65 | |
| Mounting Method | | Wall Mounted | |
| | | China | |
| Country of Manufacture | | Cillia | |

^{*1:} Battery discharge/charge power limited by voltage.

*2: Inverter will not work when PV input voltage ≥585V.

*3: When there is no battery connected, inverter starts feeding in only if string voltage is higher than 200V.

*4: Can be reached only if PV and battery power is enough.

*5: The model name does not represent the rated power, please refer to the marked parameters for details.

*6: The system will fully use total 150% PV energy to charge battery and turn to AC.

^{*7:} When EH is in microgrid application, the maximum battery voltage is 405V.
*: Please visit GoodWe website for the latest certificates.
*: As a part of our policy of continuous improvement, we reserve the right to alter design and specifications without further notice.