# 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
- · GoodWe smart meter supplied (in the box) with every model
- · <10ms UPS-level switching



## Superb Safety & Reliability

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



### Friendly & Thoughtful Design

- · Plug and play installation
- · Elegant and compact design



Technical Data	GW5K-EHB-AU-G11	GW8.6K-EHB-AU-G11	GW9.99K-EHB-AU-
Battery Input Data			
Battery Type	Lilon (BVD LIVM & LIVE	C. I.C. DECLIANDE Tuno D. & Drimo C.	200DWELVE
Nominal Battery Voltage (V)	LI-IOII (BTD HVIVI & HV3	S, LG RESU 10H-Type R & Prime, G 350	GOODWE LA F & LA F G2)
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) Max. Discharging Power (W)	5250	8600 9030	10500
	3230	3030	10300
PV String Input Data			
Max. Input Power (W)*6	10000	17200	20000
Max. Input Voltage (V)*2		600	
MPPT Operating Voltage Range (V)"3/"* Start-up Voltage (V)		80 ~ 550 95	
Nominal Input Voltage (V)		380	
Max. Input Current per MPPT (A)		16	
Max. Short Circuit Current per MPPT (A)		24	
Number of MPP Trackers	3	4	4
Number of Strings per MPPT		1	
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	11500
Nominal Output Voltage (V) Output Voltage Range (V)		230 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) Power Factor	25	50 Adiustable from 0.8 leading to 0.8 la	50
Max. Total Harmonic Distortion	~ 1 (F	Adjustable from 0.8 leading to 0.8 is <3%	agging)
		3070	
AC Output Data (Back-up)			
Nominal Apparent Power (VA)	5000	8600	9990
Max. Output Apparent Power (VA)*4 Max. Output Apparent Power with Grid (VA)*8	5250 5750	9030 11500	10500 11500
Nominal Output Current (A)	21.7	37.4	43.4
Max. Output Current (A)	22.8	39.3	45.7
Max. Output Current with Grid (A)*8	25	50	50
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	
PV Reverse Polarity Protection  Battery Reverse Polarity Protection		Integrated	
Battery Reverse Polarity Protection  Anti-islanding Protection		Integrated Integrated	
AC Overcurrent Protection		Integrated	
AC Short Circuit Protection		Integrated	
AC Overvoltage Protection		Integrated	
DC Switch		Integrated	
AC Switch DC Surge Protection		Integrated	
AC Surge Protection		Type II Type II	
Rapid Shutdown		Optional	
General Data			
		05 .00	
Operating Temperature Range (°C) Relative Humidity		-35 ~ +60 0 ~ 95%	
Max. Operating Altitude (m)		4000	
		Smart Fan Cooling	
Cooling Method		LED, WLAN + APP	
User Interface			
Cooling Method User Interface Communication with BMS		RS485, CAN	
User Interface Communication with BMS Communication with Meter		RS485	
User Interface Communication with BMS Communication with Meter Communication with Portal	20.5	RS485 WiFi, LAN, 4G	22.0
User Interface Communication with BMS Communication with Meter Communication with Portal Weight (kg)	29.5	RS485 WiFi, LAN, 4G 33.0	33.0
User Interface	29.5	RS485 WiFi, LAN, 4G 33.0 415 × 791 × 180	33.0
User Interface Communication with BMS Communication with Meter Communication with Portal Weight (kg) Dimension (W x H x D mm)	29.5	RS485 WiFi, LAN, 4G 33.0	33.0

<sup>\*1:</sup> 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.

<sup>\*6:</sup> 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.

\*8: "With girid" means backup output under bypass application.

\*: Please visit GoodWe website for the latest certificates.

\*\*: Please refer to the user manual for the MPPT Voltage Range at Nominal Power.