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
- · Optional AFCI1



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	Li-lon (BYD HVM & HVS	S. I.G. RESIL 10H-Type R & Prime. G	OODWELX F & LX F G2)
Nominal Battery Voltage (V)	Li-Ion (BYD HVM & HVS, LG RESU 10H-Type R & Prime, GOODWE LX F & LX F G2) 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) Max. Input Current per MPPT (A)		380	
Max. Short Circuit Current per MPPT (A)		16 24	
Number of MPP Trackers	3	4	4
Number of Strings per MPPT		1	
AC Output Data (On-grid)			
, , , , , , , , , , , , , , , , , , ,	5055	0.55	
Nominal Output Power (W)	5000	8600	9990
Nominal Apparent Power Output to Utility Grid (VA) Max. Apparent Power Output to Utility Grid (VA) ⁻⁴	5000 5000	8600 8600	9990 9990
Max. Apparent Power Guiput to Utility Grid (VA)	5750	11500	11500
Nominal Output Voltage (V)	3730	230	11000
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) Power Factor	25	50	50
Max. Total Harmonic Distortion	~ I (F	Adjustable from 0.8 leading to 0.8 la <3%	gging)
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) Max. Output Current (A)	5750 22.8	11500 39.3	11500 45.7
Nominal Output Voltage (V)	22.8	230 (±2%)	45.7
Nominal Output Frequency (Hz)		50 (±2.%)	
Output THDv (@Linear Load)		<3%	
Efficiency			
		07.00/	
Max. Efficiency European Efficiency	97.6% 97.0%		
Max. Battery to AC Efficiency	96.5%		
MPPT Efficiency	99.5%		
Protection			
PV Insulation Resistance Detection		Integrated	
Residual Current Monitoring PV Reverse Polarity Protection		Integrated Integrated	
Battery Reverse Polarity Protection		Integrated 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			
		05 00	
Operating Temperature Range (°C)		-35 ~ +60	
Relative Humidity Max. Operating Altitude (m)		0 ~ 95% 4000	
Cooling Method		Smart Fan Cooling	
User Interface		LED, WLAN + APP	
Communication with BMS		RS485, CAN	
Communication with Meter		RS485	
Communication with Portal		WiFi, LAN, 4G	
Weight (kg)	29.5	33.0	33.0
Dimension (W \times H \times D mm)		415 × 791 × 180	
Tanada and		Non-isolated	
Topology Ingress Protection Poting			
Topology Ingress Protection Rating Mounting Method		IP65 Wall Mounted	

^{*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.