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	Lilon (RVD HVM & HVS	, LG RESU 10H-Type R & Prime, GO)ODWEIVE8 IVEG2)
Nominal Battery Voltage (V)	LI-IOII (BTD HVIVI & HV3	350	DODWE LAF & LAF 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)		50	
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	10000	600	20000
MPPT Operating Voltage Range (V)*3/**		80 ~ 550	
Start-up Voltage (V)		95	
Nominal Input Voltage (V)		380	
Max. Input Current per MPPT (A)		16	
Max. Short Circuit Current per MPPT (A) Number of MPP Trackers	3	<u>24</u> 4	4
Number of Strings per MPPT		1	4
		l l	
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) Nominal Output Voltage (V)	5750	11500	11500
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)	25	50	50
Power Factor	~1 (A	djustable from 0.8 leading to 0.8 lag	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@10se
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) Output THDv (@Linear Load)		50 (±0.2%) <3%	
		<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		Integrated	
Battery Reverse Polarity Protection		Integrated	
Anti-islanding Protection AC Overcurrent Protection		Integrated	
AC Overcurrent Protection AC Short Circuit Protection		Integrated Integrated	
AC Overvoltage Protection		Integrated	
DC Switch	Integrated		
AC Switch	Integrated		
DC Surge Protection	Type II		
AC Surge Protection	Type II		
AFCI	Optional Optional		
Rapid Shutdown		Optional	
General Data			
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		RS485	
Communication with Meter		\A/:E: A \ 4 \	
Communication with Meter Communication with Portal	20 E	WiFi, LAN, 4G	22.0
Communication with Meter Communication with Portal Weight (kg)	29.5	33.0	33.0
Communication with Meter Communication with Portal Weight (kg) Dimension (W × H × D mm)	29.5	33.0 415 × 791 × 180	33.0
Communication with Meter Communication with Portal Weight (kg) Dimension (W x H x D mm) Topology	29.5	33.0	33.0
Communication with Meter	29.5	33.0 415 × 791 × 180 Non-isolated	33.0

^{*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.

 $^{^{\}star}$ 5: The model name does not represent the rated power, please refer to the marked *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.
*1: Please visit GoodWe website for the latest certificates.
*2: Please refer to the user manual for the MPPT Voltage Range at Nominal Power.