

Technical Data		GW3K-EHA-G20	GW3.6K-EHA-G20	GW5K-EHA-G20	GW6K-EHA-G20	GW8K-EHA-G20	GW9.999KEHA-G20
Battery Side							
Battery Type		LFP(LiFePO ₄)					
Nominal Battery Voltage (V)		380					
Battery Voltage Range (V)		350 ~ 550					
Start-up Voltage (V) ¹		380					
Number of Battery Input		1					
Max. Continuous Charging Current (A)	11.9	14.3	19.8	23.7	31.6	35.6	
Max. Continuous Discharging Current (A)	8.7	10.5	14.5	17.4	23.2	29.0	
Max. Charging Power (kW)	4.5	5.4	7.5	9.0	12.0	13.5	
Max. Discharging Power (kW)	3.3	3.96	5.5	6.6	8.8	11.0	
PV Side							
Max. Input Power (kW)	6.0	7.2	10.0	12.0	16.0	20.0	
Max. Input Voltage (V) ²		600					
MPPT Operating Voltage Range (V) ³		40 ~ 560					
Start-up Voltage (V)		50					
Nominal Input Voltage (V)		400					
Max. MPPT Current (A)		20					
Max. MPPT Short Circuit Current (A)		26					
Number of MPPTs	2	2	2	2	4	4	
Number of Strings per MPPT	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1 / 1 / 1	1 / 1 / 1 / 1	
AC Side (On-grid)							
Nominal Power (kW)	3.0	3.6	5.0	6.0	8.0	9.999	
Nominal Apparent Power to Grid (kVA)	3.0	3.6	5.0	6.0	8.0	9.999	
Max. Apparent Power to Grid (kVA)	3.0	3.6	5.0	6.0	8.0	9.999	
Max. Apparent Power from Grid (kVA)	6.0	7.2	10.0	12.0	14.5	14.5	
Nominal Voltage (V)		220 / 230 / 240, L / N / PE					
Voltage Range (V)		170 ~ 280					
Nominal Frequency (Hz)		50 / 60					
Frequency Range (Hz)		45 ~ 55 / 55 ~ 65					
Max. Current to Grid (A)	13.7 @ 220V 13.1 @ 230V 12.5 @ 240V	16.4 @ 220V 15.7 @ 230V 15.0 @ 240V	22.8 @ 220V 21.8 @ 230V 20.9 @ 240V	27.3 @ 220V 26.1 @ 230V 25.0 @ 240V	36.4 @ 220V 34.8 @ 230V 33.4 @ 240V	43.5 @ 220V 43.5 @ 230V 41.7 @ 240V	
Max. Current From Grid (A)	27.3 @ 220V 26.1 @ 230V 25.0 @ 240V	32.8 @ 220V 31.4 @ 230V 30.0 @ 240V	45.5 @ 220V 43.5 @ 230V 41.7 @ 240V	50.0 @ 220V 50.0 @ 230V 50.0 @ 240V	63.0 @ 220V 63.0 @ 230V 60.5 @ 240V	63.0 @ 220V 63.0 @ 230V 60.5 @ 240V	
Power Factor		~1 (Adjustable from 0.8 leading to 0.8 lagging)					
THDi		<3%					
Back-up Side							
Nominal Output Apparent Power (kVA)	3.0	3.6	5.0	6.0	8.0	10.0	
Max. Output Apparent Power(kVA)	3.0 (6.0, 10s)	3.6 (7.2, 10s)	5.0 (10.0, 10s)	6.0 (12.0, 10s)	8.0 (16.0, 10s)	10.0 (20.0, 10s)	
Max. Output Apparent Power (Bypass) (kVA)	6.0	7.2	10.0	12.0	14.5	14.5	
Max. Output Current (A)	13.7	16.4	22.8	27.3	36.4	43.5	
Max. Output Current (Bypass) (A)	27.3	32.8	45.5	50.0	63.0	63.0	
Nominal Output Voltage (V)		220 / 230 / 240, L / N / PE					
Nominal Output Frequency (Hz)		50 / 60					
THDv (@Linear Load)		<3%					
Efficiency							
Max. Efficiency	97.6%	97.6%	97.6%	97.6%	97.5%	97.5%	
European Efficiency	96.5%	96.5%	96.8%	97.0%	96.8%	96.8%	
Max. Battery to AC Efficiency	98.0%	98.0%	98.0%	98.0%	97.8%	97.8%	
Protection							
PV String Current Monitoring		Integrated					
PV Insulation Resistance Detection		Integrated					
Residual Current Monitoring		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 Surge Protection		Type II					
AC Surge Protection		Type II					
RSD		Optional					
AFCI		Integrated					
Remote Shutdown		Integrated					
General Data							
Operating Temperature Range (°C)		-35 ~ +60 (Derating at +40)					
Relative Humidity		0 ~ 95%					
Max. Operating Altitude (m)		4000 (>2000 derating)					
Cooling Method		Natural convection					
User Interface		LED, WLAN + APP					
Communication with BMS		CAN					
Communication		RS485, WiFi + LAN + Bluetooth					
Communication Protocols		Modbus-RTU, Modbus-TCP					
Weight (kg)	24	24	24	24	26	26	
Dimension (W x H x D mm)		800 x 300 x 270					
Noise Emission	≤30	≤30	≤30	≤30	≤35	≤35	
Topology		Non-isolated					
Ingress Protection Rating		IP66					
Mounting Method		Wall / Floor Mounted					
Country of Manufacture		China					

*1: If there's no PV, start-up voltage will be 380V.

*2: When the input voltage is 560V-600V, the inverter will enter standby mode, and the voltage returns to 560V to enter the normal operation state.

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

*: 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.