

Technical Data	GW3K-EHA-G20	GW3.6K-EHA-G20	GW5K-EHA-G20	GW6K-EHA-G20	GW8K-EHA-G20	GW9.999K-EHA-G20
Battery Input Data						
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	4.0	5.5	6.6	8.8	11.0
PV String Input Data						
Max. Input Power (kW)	6.0	7.2	10.0	12.0	16.0	20.0
Max. Input Voltage (V)	600					
MPPT Operating Voltage Range (V)	40 ~ 560					
Start-up Voltage (V)	50					
Nominal Input Voltage (V)	400					
Max. Input Current per MPPT (A)	20					
Max. Short Circuit Current per MPPT (A)	26					
Number of MPP Trackers	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 Output Data (On-grid)						
Nominal Output Power (kW)	3.0	3.6	5.0	6.0	8.0	10.0
Nominal Apparent Power to Grid (kVA)	3.0	3.6	5.0	6.0	8.0	10.0
Max. Apparent Power to Grid (kVA)	3.0	3.6	5.0	6.0	8.0	10.0
Nominal Apparent Power from Grid (kVA)	3.0	3.6	5.0	6.0	8.0	10.0
Max. Apparent Power from Grid (kVA)	6.0	7.2	10.0	12.0	14.5	14.5
Nominal Output Voltage (V)	220 / 230 / 240, L / N / PE					
Output Voltage Range (V)	170 ~ 280					
Nominal Output Frequency (Hz)	50 / 60					
Output 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 @ 220V 50 @ 230V 50 @ 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)					
Max. Total Harmonic Distortion	<3%					
AC Output Data (Back-up)						
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 at 220V 13.1 at 230V 12.5 at 240V	16.4 at 220V 15.7 at 230V 15.0 at 240V	22.8 at 220V 21.8 at 230V 20.9 at 240V	27.3 at 220V 26.1 at 230V 25.0 at 240V	36.4 at 220V 34.8 at 230V 33.4 at 240V	43.5 at 220V 43.5 at 230V 41.7 at 240V
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					
Output 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	Optional					
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 with Meter	RS485					
Communication with Portal	WiFi / 4G					
Weight (kg)	24	24	24	24	26	26
Dimension (W x H x D mm)	800 x 300 x 270					
Noise Emission (dB)	≤30	≤30	≤30	≤30	≤35	≤35
Topology	Non-isolated					
Self-consumption at Night (W)	≤10					
Ingress Protection Rating	IP66					
Mounting Method	Wall / Floor Mounted					
Active Anti-islanding Method	Frequency shift					
Country of Manufacture	China					

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

*: Please visit GoodWe website for the latest certificates.