






Easy retrofit for optimised energy autonomy

- ✓ Optimised energy autonomy
- ✓ Smart and efficient operations
- ✓ Modern and compact design
- ✓ Highest safety standards

Increasingly, owners of PV systems are looking to expand into energy storage solutions, thereby enabling energy back-up and enhanced independence. Ideal for solar power system upgrades and retrofit projects, the BT battery inverter is installed on the AC-side of the on-grid inverter and can be combined with a range of battery capacities, including GoodWe high-voltage battery series Lynx Home F.

-  Wide battery voltage range
-  UPS level switching <math>< 10\text{ms}</math>
-  Fanless and silent



Technical Data	GW5K-BT	GW6K-BT	GW8K-BT	GW10K-BT
Battery Input Data				
Battery Type				Li-Ion
Nominal Battery Voltage (V)				500
Battery Voltage Range (V)				180 ~ 600
Max. Continuous Charging Current (A)				25
Max. Continuous Discharging Current (A)				25
Max. Charging Power (W)	5000	6000	8000	10000
Max. Discharging Power (W)	5000	6000	8000	10000
AC Output Data (On-grid)				
Nominal Apparent Power Output to Utility Grid (VA)	5000	6000	8000	10000
Max. Apparent Power Output to Utility Grid (VA) ^{*1*}	5500	6600	8800	11000
Max. Apparent Power from Utility Grid (VA)	10000	12000	15000	15000
Nominal Output Voltage (V)	400 / 380, 3L / N / PE			
Nominal AC Grid Frequency (Hz)	50 / 60			
Max. AC Current Output to Utility Grid (A)	8.5	10.5	13.5	16.5
Max. AC Current From Utility Grid (A)	15.2	18.2	22.7	22.7
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)			
Max. Total Harmonic Distortion	<3%			
AC Output Data (Back-up)				
Back-up Nominal Apparent Power (VA)	5000	6000	8000	10000
Max. Output Apparent Power (VA)	5000 (10000@60sec)	6000 (12000@60sec)	8000 (15000@60sec)	10000 (15000@60sec)
Max. Output Current (A)	8.5	10.5	13.5	16.5
Nominal Output Voltage (V)	400 / 380, 3L / N / PE			
Nominal Output Frequency (Hz)	50 / 60			
Output THDv (@Linear Load)	<3%			
Efficiency				
Max. Efficiency				97.6%
European Efficiency	97.2%	97.2%	97.5%	97.5%
Max. Battery to AC Efficiency				97.6%
Protection				
PV Insulation Resistance Detection				Integrated
Residual Current Monitoring				Integrated
Battery Reverse Polarity Protection				Integrated
Anti-islanding Protection				Integrated
AC Overcurrent Protection				Integrated
AC Short Circuit Protection				Integrated
AC Overvoltage Protection				Integrated
General Data				
Operating Temperature Range (°C)				-35 ~ +60
Relative Humidity				0 ~ 95%
Max. Operating Altitude (m)				4000
Cooling Method				Natural Convection
User Interface				LED & APP
Communication with BMS ^{*2}				RS485, CAN
Communication with Meter				RS485
Communication with Portal				Wi-Fi, LAN
Weight (kg)				21
Dimension (W x H x D mm)				415 x 516 x 180
Topology				Non-isolated
Self-consumption at Night (W) ^{*3}				<15
Ingress Protection Rating				IP66
Mounting Method				Wall Mounted

*1: According to the local grid regulation.

*2: CAN communication is configured by default. If 485 communication is used, please replace the corresponding communication line.

*3: No Back-up Output.

*4: For Belgium Max. Apparent Power Output to Utility Grid (VA): GW5K-BT is 5000; GW6K-BT is 6000; GW8K-BT is 8000; GW10K-BT is 10000.

*: Peak output apparent power can be reached only if PV and battery power is enough.

*: Please visit GoodWe website for the latest certificates.