






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			
Start-up Voltage (V)	180			
Number of Battery Input	1			
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 Output Power (W)	5000	6000	8000	10000
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
Output Voltage Range (V)	0 ~ 300			
Nominal Output Voltage (V)	400 / 380, 3L / N / PE			
Nominal AC Grid Frequency (Hz)	50 / 60			
AC Grid Frequency Range (Hz)	45 ~ 55			
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 without Grid (VA) ²	5000 (10000@60sec)	6000 (12000@60sec)	8000 (15000@60sec)	10000 (15000@60sec)
Max. Output Apparent Power with Grid (VA)	5000	6000	8000	10000
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 ³	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) ⁴	<15			
Ingress Protection Rating	IP66			
Mounting Method	Wall Mounted			

*1: According to the local grid regulation.

*2: Can be reached only if battery capacity is enough, otherwise will shut down.

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

*4: No Back-up Output.

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

*: Please visit GoodWe website for the latest certificates.