






## 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
<b>Battery Input Data</b>				
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
<b>AC Output Data (On-grid)</b>				
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) <sup>1</sup>	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%			
<b>AC Output Data (Back-up)</b>				
Back-up Nominal Apparent Power (VA)	5000	6000	8000	10000
Max. Output Apparent Power without Grid (VA) <sup>2</sup>	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%			
<b>Efficiency</b>				
Max. Efficiency	97.6%			
European Efficiency	97.2%	97.2%	97.5%	97.5%
Max. Battery to AC Efficiency	97.6%			
<b>Protection</b>				
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			
<b>General Data</b>				
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 <sup>3</sup>	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) <sup>4</sup>	<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.