

GOODWE

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 <10ms



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 × H × D mm)			415 × 516 × 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.