GOODWE

Smart optimisation of energy autonomy across residential ecosystems

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

ENERGY STORAGE Inspection 2022

NO.6 93.4%

Operating at the heart of the integrated PV power and storage system, our ET PLUS+ hybrid inverters are designed to maximise energy output, enhance self-consumption, realise peak-shaving and facilitate backup power. With intelligent load controls and wide battery voltage range, the set-up can be flexibly configured to meet individual needs across the residential ecosystem. Combine with GoodWe battery system Lynx Home F for a safe and reliable energy storage solution.

Fanless and silent

Smart home integration

UPS level switching <10ms

ET PLUS+ (16A) Series

Technical Data	GW5KN-ET	GW6.5KN-ET	GW8KN-ET	GW10KN-ET
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)	7500	8450	9600	10000
Max. Discharging Power (W)	7500	8450	9600	10000
PV String Input Data				
Max. Input Power (W)	7500	9700	12000	15000
Max. Input Voltage (V)[*1]		1000		
MPPT Operating Voltage Range (V)[*2]		200 ~ 850		
Start-up Voltage (V)		180		
Nominal Input Voltage (V)		620		
Max. Input Current per MPPT (A)		16		
Max. Short Circuit Current per MPPT (A)		21.2		
Number of MPP Trackers		2		
Number of Strings per MPPT		1		
AC Output Data (On-grid)				
Nominal Output Power (W)	5000	6500	8000	10000
Nominal Apparent Power Output to Utility Grid (VA)	5000	6500	8000	10000
Max. Apparent Power Output to Utility Grid (VA)[*2*6]	5500	7150	8800	11000
Max. Apparent Power from Utility Grid (VA)	10000	13000	15000	15000
Nominal Output Voltage (V)		400 / 380, 3L / N / PE		
Output Voltage Range (V)		0 ~ 300		
Nominal AC Grid Frequency (Hz)		50 / 60		
AC Grid Frequency Range (Hz)		45 ~ 65		
Max. AC Current Output to Utility Grid (A)	8.5	10.8	13.5	16.5
Max. AC Current From Utility Grid (A)	15.2	19.7	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	6500	8000	10000
Max. Output Apparent Power without Grid (VA)[*3]	5000 (10000@60sec)	6500 (13000@60sec)	8000 (16000@60sec)	10000 (16500@60sec)
Max. Output Apparent Power with Grid (VA)[*3]	5000	6500	8000	10000
Max. Output Current (A)	8.5	10.8	13.5	16.5
Nominal Output Voltage (V)		400 / 380		
Nominal Output Frequency (Hz)		50 / 60		
Output THDv (@Linear Load)		<3%		
Efficiency				
Max. Efficiency	98.0%	98.0%	98.2%	98.2%
European Efficiency	97.2%	97.2%	97.5%	97.5%
Max. Battery to AC Efficiency		97.5%		
MPPT Efficiency		99.9%		
Protection				
PV Insulation Resistance Detection		Integrated		
Residual Current Monitoring		Integrated		
PV Reverse Polarity Protection		Integrated		
Anti-islanding Protection		Integrated		
AC Overcurrent Protection		Integrated		
AC Short Circuit Protection		Integrated		
AC Overvoltage Protection		Integrated		
DC Switch		Integrated		
DC Surge Protection		Type II		
AC Surge Protection		Type III		
Remote Shutdown		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[*4]		RS485, CAN		
Communication with Meter		RS485		
Communication with Portal		WiFi / WiFi + LAN (Optional) / 4G (Optional)		
Weight (kg)		24		
Dimension (W × H × D mm)		415 × 516 × 180		
Topology		Non-isolated		
Self-consumption at Night (W)[*5]		<15		
Ingress Protection Rating		IP66		
Mounting Method		Wall Mounted		

*1: For 1000V system, Maximum operating voltage is 950V.
*2: According to the local grid regulation.
*3: Can be reached only if PV and battery power is enough.
*4: CAN communication is configured default. If RS485 communication is used, please replace the corresponding communication line.

*5: No Back-up Output.
*6: For Austria, Max. Output Power (W): GW5KN-ET is 5000; GW6.5KN-ET is 6500; GW8KN-ET is 8000; GW10KN-ET is 10000.
*: Not all certifications & standards listed, check the official website for details.
*: Please visit GoodWe website for the latest certificates.