GOODWE

Smart optimisation of energy autonomy across residential ecosystems

Optimised energy autonomy

Smart and efficient operations

Modern and compact design

Highest safety standards

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 and facilitate back-up power. With intelligent load controls and wide battery voltage range, the set-up can be flexibly configurated to meet individual needs across the residential ecosystem. The ET PLUS+ series can be combined with a range of battery capacities and brands, including the GoodWe Lynx Home F.



Fanless and silent



Smart home integration



UPS level switching <10ms



79/20 21

NO.6

93.4%

GOODWE

Technical Data	GW5K-ET	GW6.5K-ET	GW8K-ET	GW10K-ET	
Battery Input Data					
Battery Type		Li-l	on		
Nominal Battery Voltage (V)	Li-lon 500				
Battery Voltage Range (V)	180 ~ 600				
Start-up Voltage (V)	180				
Number of Battery Input	1				
Max. Continuous Charging Current (A)		2			
Max. Continuous Discharging Current (A)		2			
Max. Charging Power (W)	7500	8450	9600	10000	
Max. Discharging Power (W)	7500	8450	9600	10000	
PV String Input Data					
Max. Input Voltage (V)*1		10			
MPPT Operating Voltage Range (V) ²		200 ~			
Start-up Voltage (V) Nominal Input Voltage (V)		18 62			
Max. Input Current per MPPT (A)	12.5	12.5	12.5	12.5	
Max. Short Circuit Current per MPPT (A)	12.0	15		12.0	
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	5500	7150	8800	11000	
Max. Apparent Power from Utility Grid (VA)	10000	13000	15000	15000	
Nominal Output Voltage (V) Output Voltage Range (V)		400 / 380, 30 ~			
Nominal AC Grid Frequency (Hz)		50 /			
AC Grid Frequency Range (Hz)		45 ~			
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 Max. Total Harmonic Distortion		~1 (Adjustable from 0.8 <3			
		<3	/0		
AC Output Data (Back-up)	5000	0500	00000	10000	
Back-up Nominal Apparent Power (VA) Max. Output Apparent Power without grid (VA) ^{*3}	5000 <u>5000</u> 5000 (10000@60sec)	6500 6500 (13000@ 60sec)	8000 8000 (16000@60sec)	<u>10000</u> 10000 (16500@60:	
Max. Output Apparent Power with grid (VA)	<u>5000 (10000@00sec)</u> 5000		8000 (10000@00sec) 8000	10000 (100000000	
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%	
		97.2%	97.5%		
	97.2%			97.5%	
Max. Battery to AC Efficiency	97.2% 97.5%	97.5%	97.5%	97.5% 97.5%	
Max. Battery to AC Efficiency Protection		97.5%	97.5%		
Max. Battery to AC Efficiency Protection PV Insulation Resistance Detection		97.5% Integr	97.5% rated		
Max. Battery to AC Efficiency Protection PV Insulation Resistance Detection Residual Current Monitoring		97.5% Integr Integr	97.5% rated rated		
Max. Battery to AC Efficiency Protection PV Insulation Resistance Detection Residual Current Monitoring PV Reverse Polarity Protection		97.5% Integr Integr Integr	97.5% rated rated rated		
Max. Battery to AC Efficiency Protection PV Insulation Resistance Detection Residual Current Monitoring PV Reverse Polarity Protection Anti-islanding Protection		97.5% Integr Integr	97.5% rated rated rated rated		
Max. Battery to AC Efficiency Protection PV Insulation Resistance Detection Residual Current Monitoring PV Reverse Polarity Protection Anti-islanding Protection AC Overcurrent Protection AC Short Circuit Protection		97.5% Integ Integ Integ Integ Integ Integ	97.5% ated ated ated ated ated ated ated ated		
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European Efficiency Max. Battery to AC Efficiency Protection PV Insulation Resistance Detection Residual Current Monitoring PV Reverse Polarity Protection Acti-islanding Protection AC Overcurrent Protection AC Overcurrent Protection AC Short Circuit Protection DC Switch DC Surge Protection AC Surge Protection Remote Shutdown General Data		97.5% Integr Integr Integr Integr Integr Integr Integr Integr Typ Typ	97.5% ated ated ated ated ated ated ated ated		
Max. Battery to AC Efficiency Protection PV Insulation Resistance Detection Residual Current Monitoring PV Reverse Polarity Protection Anti-islanding Protection AC Overcurrent Protection AC Short Circuit Protection AC Overcultage Protection DC Surge Protection AC Surge Protection Remote Shutdown General Data		97.5%	97.5% rated rated rated rated rated rated rated rated rated e II rated		
Max. Battery to AC Efficiency Protection PV Insulation Resistance Detection Residual Current Monitoring PV Reverse Polarity Protection Acti-islanding Protection AC Overcurrent Protection AC Short Circuit Protection AC Overvoltage Protection DC Switch DC Surge Protection Remote Shutdown General Data Operating Temperature Range (°C) Relative Humidity		97.5% Integr Int	97.5% ated ated ated ated ated ated ated ated		
Max. Battery to AC Efficiency Protection PV Insulation Resistance Detection Residual Current Monitoring PV Reverse Polarity Protection Activislanding Protection AC Overcurrent Protection AC Short Circuit Protection DC Switch DC Surge Protection AC Surge Protection AC Surge Protection Remote Shutdown General Data Operating Temperature Range (°C) Relative Humidity Max. Operating Altitude (m)		97.5% Integ In	97.5% ated		
Max. Battery to AC Efficiency Protection PV Insulation Resistance Detection Residual Current Monitoring PV Reverse Polarity Protection AC Overcurrent Protection AC Overcurrent Protection AC Overvoltage Protection DC Switch DC Surge Protection Remote Shutdown General Data Operating Temperature Range (°C) Relative Humidity Max. Operating Altitude (m) Cooling Method		97.5%	97.5% rated		
Max. Battery to AC Efficiency Protection PV Insulation Resistance Detection Residual Current Monitoring PV Reverse Polarity Protection Anti-islanding Protection AC Overcurrent Protection AC Short Circuit Protection C Switch DC Switch DC Surge Protection AC Surge Protection Remote Shutdown General Data Operating Temperature Range (°C) Relative Humidity Max. Operating Altitude (m) Cooling Method User Interface		97.5% Integ	97.5% ated ated ated ated ated ated ated ated		
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Max. Battery to AC Efficiency Protection PV Insulation Resistance Detection Residual Current Monitoring PV Reverse Polarity Protection Act Overcurrent Protection AC Overcurrent Protection AC Overvoltage Protection DC Switch DC Surge Protection AC Surge Protection Remote Shutdown General Data Operating Temperature Range (°C) Relative Humidity Max. Operating Altitude (m) Cooling Method User Interface Communication with BMS ^{ra} Communication with Portal Weight (kg) Dimension (W × H × D mm)		97.5% Integr	97.5% ated ated ated ated ated ated ated ated		

*1: For 1000V system, maximum operating voltage is 950V. *2: According to the local grid regulation. *3: Peak output apparent power 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. *: Please visit GoodWe website for the latest certificates