

# GOODWE

## ET PLUS+ Series

### 5-10kW | Three Phase Hybrid Inverter

ET PLUS+ Series integrates its technical strengths that make it one of the most adaptive options in the market for flexible residential needs.

The series brings values of high power generation and charging power for optimal energy harvest, flexible applications enabled by smart load control and 100% unbalanced output, and sustainable system reliability and safety. It is a true versatile quality investment that extends application scenarios and maximizes self-consumption ratios.



Smart load control



150% DC input oversizing



100% unbalanced output



In-built Type II SPD for DC



Battery ready option



<10ms UPS-level switching

Technical Data	GW5K-ET	GW6.5K-ET	GW8K-ET	GW10K-ET
<b>Battery Input Data</b>				
Battery Type			Li-Ion	
Nominal Battery Voltage (V)			500	
Battery Voltage Range (V)			180 ~ 600	
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
<b>PV String Input Data</b>				
Max. Input Power (W)	7500	9700	12000	15000
Max. Input Voltage (V) <sup>1</sup>			1000	
MPPT Operating Voltage Range (V) <sup>2</sup>			200 ~ 850	
Start-up Voltage (V)			180	
Nominal Input Voltage (V)			620	
Max. Input Current per MPPT (A)	12.5	12.5	12.5	12.5
Max. Short Circuit Current per MPPT (A)			15.2	
Number of MPP Trackers			2	
Number of Strings per MPPT			1	
<b>AC Output Data (On-grid)</b>				
Nominal Apparent Power Output to Utility Grid (VA)	5000	6500	8000	10000
Max. Apparent Power Output to Utility Grid (VA) <sup>2,4</sup>	5500	7150	8800	11000
Max. Apparent Power from Utility Grid (VA)	10000	13000	15000	15000
Nominal Output Voltage (V)		400 / 380, 3L / N / PE		
Nominal AC Grid Frequency (Hz)		50 / 60		
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%		
<b>AC Output Data (Back-up)</b>				
Back-up Nominal Apparent Power (VA)	5000	6500	8000	10000
Max. Output Apparent Power (VA) <sup>3</sup>	5000 (10000@60sec)	6500 (13000@ 60sec)	8000 (16000@60sec)	10000 (16500@60sec)
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%		
<b>Efficiency</b>				
Max. Efficiency	98.00%	98.00%	98.20%	98.20%
European Efficiency	97.20%	97.20%	97.50%	97.50%
Max. Battery to AC Efficiency	97.50%	97.50%	97.50%	97.50%
<b>Protection</b>				
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		
<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>5</sup>		RS485, CAN		
Communication with Meter		RS485		
Communication with Portal		WiFi		
Weight (kg)		24		
Dimension (W x H x D mm)		415 x 516 x 180		
Topology		Non-isolated		
Self-consumption at Night (W) <sup>6</sup>		<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: Peak output apparent power can be reached only if PV and battery power is enough.

\*4: For Belgium, max. output apparent power(VA): GW5K-ET is 5000; GW6.5K-ET is 6500; GW8K-ET is 8000; GW10K-ET is 10000.

\*5: CAN communication is configured default.

If RS485 communication is used, please replace the corresponding communication line.

\*6: No Back-up Output.

\*: Please visit GoodWe website for the latest certificates.