



**GOODWE**  
YOUR SOLAR ENGINE

# ET PLUS+ Series

## 5-10kW | Three-phase Hybrid Inverter (HV)

The brand ET PLUS+ from GoodWe is a three-phase, high-voltage energy storage inverter that brings enhanced energy independence and maximizes self-consumption through smart control of loads and higher charging & discharging power. Covering a power range of 5 kW, 6.5kW, 8 kW and 10 kW, the ET PLUS+ allows 100% unbalanced output to maximize power output and features UPS-level switching time at 8 ms to inductive loads. In addition, the default SOC value and one-click battery charge further enhance safety.



Smart Control of Loads



150% DC Oversizing



Battery Ready



100% Unbalanced Output



8 ms UPS-level Switching

Technical Data	GW5K-ET	GW6.5K-ET	GW8K-ET	GW10K-ET
<b>Battery Input Data</b>				
Battery Type	Li-Ion			
Battery Voltage Range (V)	180~600			
Max. Charging / Discharging Current (A)	25			
Charging Strategy for Li-Ion Battery	Self-adaption to BMS			
<b>PV String Input Data</b>				
Max. DC Input Power (W)	6500	8450	9600	13000
Max. DC Input Voltage (V)* <sup>1</sup>	1000			
MPPT Range (V)	200~850			
Start-up Voltage (V)	180			
Min. Feed-in Voltage (V)* <sup>7</sup>	210			
MPPT Range for Full Load (V)	240~850	310~850	380~850	460~850
Nominal DC Input Voltage (V)	620			
Max. Input Current (A)	12.5 / 12.5	12.5 / 12.5	12.5 / 12.5	12.5 / 12.5
Max. Short Current (A)	15.2 / 15.2			
Number of MPPTs	2			
Number of Strings per MPPT	1 / 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>2,6</sup>	5500	7150	8800	11000
Nominal Apparent Power from Utility Grid (VA)	10000	13000	15000	15000
Max. Apparent Power from Utility Grid (VA)	10000	13000	15000	15000
Nominal Output Voltage (V)	400 / 380, 3L / N / PE			
Nominal Output 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
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)			
Output THDi (@Nominal Output)	<3%			
<b>AC Output Data (Back-up)</b>				
Back-up Nominal apparent power (VA)	5000	6500	8000	10000
Max. Output Apparent Power (VA)	5000	6500	8000	10000
Peak Output Apparent Power (VA)* <sup>3</sup>	10000, 60sec	13000, 60sec	16000, 60sec	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%
Max. Battery to Load Efficiency	97.50%	97.50%	97.50%	97.50%
Europe Efficiency	97.20%	97.20%	97.50%	97.50%
MPPT Efficiency	99.90%	99.90%	99.90%	99.90%
<b>Protection</b>				
Anti-islanding Protection	Integrated			
PV String Input Reverse Polarity Protection	Integrated			
Insulation Resistor Detection	Integrated			
Residual Current Monitoring Unit	Integrated			
Output Over Current Protection	Integrated			
Output Short Protection	Integrated			
Battery Input Reverse Polarity Protection	Integrated			
Output Over Voltage Protection	Integrated			
<b>General Data</b>				
Operating Temperature Range (°C)	-35~60			
Relative Humidity	0~95%			
Operating Altitude (m)	≤4000			
Cooling	Nature Convection			
Noise (dB)	<30			
User Interface	LED & APP			
Communication with BMS* <sup>4</sup>	RS485; CAN			
Communication with Meter	RS485			
Communication with EMS	RS485 (Insulated)			
Communication with Portal	Wi-Fi			
Weight (Kg)	24			
Size (Width × Height × Depth mm)	516 × 415 × 180			
Mounting	Wall Bracket			
Protection Degree	IP66			
Standby Self Consumption (W)* <sup>5</sup>	<15			
Topology	Battery Non-Isolation			

\*<sup>1</sup>: For 1000V system, Maximum operating voltage is 950V.

For Australia safety, there will be a warning if PV voltage > 600V.

\*<sup>2</sup>: According to the local grid regulation.

\*<sup>3</sup>: Can be reached only if PV and battery power is enough.

\*<sup>4</sup>: CAN communication is configured by default. If 485 communication is used, please replace the corresponding communication line.

\*<sup>5</sup>: No Back-up Output.

\*<sup>6</sup>: For Belgium Max. Output Apparent Power (VA): GW5K-ET is 5000; GW6.5K-ET is 6500; GW8K-ET is 8000; GW10K-ET is 10000.

\*<sup>7</sup>: When there is no battery connected, inverter starts feeding in only if string voltage is higher than 400V.

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