



GOODWE
YOUR SOLAR ENGINE

ET PLUS+ Series

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

The brand new ET Series 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 Series allows 100% unbalanced output to maximize power output and features a UPS-level switching time backup function. The new ET Series comes with a dry-contact, making it possible to control the operation of loads such as heat-pumps and EV-chargers.



Smart Control of Loads



150% DC Oversizing



Battery Ready



100% Unbalanced Output



Backup with UPS level switching

| Technical Data | GW5K-ET | GW6.5K-ET | GW8K-ET | GW10K-ET |
|---|---|--------------|--------------|--------------|
| Battery Input Data | | | | |
| 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 | | | |
| PV String Input Data | | | | |
| Max. DC Input Power (W) | 6500 | 8450 | 9600 | 13000 |
| Max. DC Input Voltage (V)* ¹ | 1000 | | | |
| MPPT Range (V) | 200~850 | | | |
| Start-up Voltage (V) | 180 | | | |
| Min. Feed-in Voltage (V)* ⁷ | 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 | | | |
| AC Output Data (On-grid) | | | | |
| 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 |
| 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% | | | |
| AC Output Data (Back-up) | | | | |
| Back-up Nominal apparent power (VA) | 5000 | 6500 | 8000 | 10000 |
| Max. Output Apparent Power (VA) | 5000 | 6500 | 8000 | 10000 |
| Peak Output Apparent Power (VA)* ³ | 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% | | | |
| Efficiency | | | | |
| 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% |
| Protection | | | | |
| 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 | | | |
| General Data | | | | |
| 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* ⁴ | RS485; CAN | | | |
| Communication with Meter | RS485 | | | |
| Communication with EMS | RS485 (Insulated) | | | |
| Communication with Portal | Wi-Fi | | | |
| Weight (Kg) | 24 | | | |
| Size (Width × Height × Depth mm) | 415 × 516 × 180 | | | |
| Mounting | Wall Bracket | | | |
| Ingress Protection Rating | IP66 | | | |
| Standby Self Consumption (W)* ⁵ | <15 | | | |
| Topology | Battery Non-Isolation | | | |

*1: For 1000V system, Maximum operating voltage is 950V.

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

*2: According to the local grid regulation.

*3: Can be reached only if PV and battery power is enough.

*4: CAN communication is configured by default. If 485 communication is used, please replace the corresponding communication line.

*5: No Back-up Output.

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

*7: 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.