

ET Series

Three Phase Hybrid Inverter (HV Battery)



| 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 Current (A) | 25 | | | |
| | Max. 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)*2 | 200~850 | | | |
| | Start-up Voltage (V) | 180 | | | |
| | Min. Feed-in Voltage (V) | 210 | | | |
| | MPPT Range for Full Load (V)*3 | 240~850 | 310~850 | 380~850 | 460~850 |
| | Nominal DC Input Voltage (V)*4 | 620 | | | |
| | Max. Input Current (A) | 12.5/12.5 | | | |
| | Max. Short Current (A) | 15.2/15.2 | | | |
| | No. of MPP Trackers | 2 | | | |
| | No. of Strings per MPP Tracker | 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)*5 | 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 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; Optional) | Max. Output Apparent Power (VA) | 5000 | 6500 | 8000 | 10000 |
| | Peak Output Apparent Power (VA)*6 | 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 | 98.0% | 98.0% | 98.2% | 98.2% |
| | Max. Battery to Load Efficiency | 97.5% | 97.5% | 97.5% | 97.5% |
| | European Efficiency | 97.2% | 97.2% | 97.5% | 97.5% |
| 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 | Natural Convection | | | |
| | Noise (dB) | <30 | | | |
| | User Interface | LED & APP | | | |
| | Communication with BMS*7 | 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 | | | |
| | Protection Degree | IP66 | | | |
| | Standby Self-Consumption (W)*8 | <15 | | | |
| | Topology | Battery Non-Isolation | | | |

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

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

*2: For AustraliaL safety, MPPT range is 200~550V.

*3: For AustraliaL safety, MPPT voltage upper limit is 550V.

*4: For AustraliaL safety, nominal DC input voltage is 450V.

*5: According to the local grid regulation.

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

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

*8: No Back-up Output.

*: Please visit GoodWe website for the latest certificates.