

## ET Series

75-100kW | Three Phase | 8 MPPTs  
Hybrid Inverter (HV)

Powerful and compact, the ET Series 75-100kW hybrid inverter is a key addition to GoodWe's Commercial and Industrial (C&I) portfolio. It features an efficient DC-coupled architecture well-suited for solar-plus-storage applications. The inverter is compatible with a range of battery capacities and leverages intelligent operating modes to optimize system performance across various scenarios such as self-consumption, peak shaving, time-of-use, and grid support.



### Optimized Performance

- 8 MPPTs, 200% PV oversizing
- Up to 21A per string
- 110% Unbalanced Load
- 150% AC Overloading @10s
- DC Coupling for Smarter Energy and Higher Efficiency



### Superb Safety & Reliability

- <10ms UPS-Level Switching with STS
- Type I + II SPD on DC side<sup>1</sup>
- Smart temp. sensing on AC and PV connectors
- Smart DC Circuit Breaker<sup>1</sup>



### Flexible & Adaptable Applications

- Dual Independent Battery Inputs for More Flexible Configuration, Supporting up to 220A
- Supports ET100 with BAT100, 1C Charge and Discharge
- Generator Start-Stop Control via DI/DO Interfaces
- Seamless Backup Power with up to 200A Output

| Technical Data                                  | GW75K-ET-G10                                | GW80K-ET-G10                                 | GW99.99K-ET-G10                                          | GW100K-ET-G10                                |
|-------------------------------------------------|---------------------------------------------|----------------------------------------------|----------------------------------------------------------|----------------------------------------------|
| <b>Battery Side</b>                             |                                             |                                              |                                                          |                                              |
| Battery Type                                    |                                             |                                              | Li-Ion                                                   |                                              |
| Nominal Voltage (V)                             |                                             |                                              | 600                                                      |                                              |
| Voltage Range (V)                               |                                             |                                              | 300 ~ 800                                                |                                              |
| Start-up Voltage (V)                            |                                             |                                              | 300                                                      |                                              |
| Number of Battery Inputs                        |                                             |                                              | 2                                                        |                                              |
| Max. Continuous Charging Current (A)            | 85 × 2                                      | 100 × 2                                      | 110 × 2                                                  | 110 × 2                                      |
| Max. Continuous Discharging Current (A)         | 85 × 2                                      | 100 × 2                                      | 110 × 2                                                  | 110 × 2                                      |
| Max. Charging Power (kW)                        | 75                                          | 88                                           | 99.99                                                    | 110                                          |
| Max. Discharging Power (kW)                     | 75                                          | 88                                           | 99.99                                                    | 110                                          |
| <b>PV Side</b>                                  |                                             |                                              |                                                          |                                              |
| Max. Input Power (kW)                           | 150                                         | 160                                          | 200                                                      | 200                                          |
| Max. Input Voltage (V) <sup>*1</sup>            | 1000                                        | 1000                                         | 1000                                                     | 1000                                         |
| MPPT Operating Voltage Range (V) <sup>*2</sup>  | 160 ~ 950                                   | 160 ~ 950                                    | 160 ~ 950                                                | 160 ~ 950                                    |
| Start-up Voltage (V)                            |                                             |                                              | 200                                                      |                                              |
| Nominal Input Voltage (V)                       | 620                                         | 620                                          | 620                                                      | 620                                          |
| Max. MPPT Current (A)                           |                                             |                                              | 42 × 8                                                   |                                              |
| Max. MPPT Short Circuit Current (A)             |                                             |                                              | 55 × 8                                                   |                                              |
| Number of MPPTs                                 |                                             |                                              | 8                                                        |                                              |
| Number of Strings per MPPT                      |                                             |                                              | 2                                                        |                                              |
| <b>AC Side (on-grid)</b>                        |                                             |                                              |                                                          |                                              |
| Nominal Power (kW)                              | 75                                          | 80                                           | 99.99                                                    | 100                                          |
| Max. Power (kW)                                 | 75                                          | 88 <sup>4</sup>                              | 99.99                                                    | 110 <sup>4</sup>                             |
| Nominal Apparent Power from / to Grid (kVA)     | 75                                          | 80                                           | 99.99                                                    | 100                                          |
| Max. Apparent Power to Grid (kVA)               | 75                                          | 88 <sup>5</sup>                              | 99.99                                                    | 110 <sup>5</sup>                             |
| Max. Apparent Power from Grid (kVA)             | 75                                          | 88 <sup>5</sup>                              | 99.99                                                    | 110 <sup>5</sup>                             |
| Nominal Voltage (V)                             |                                             | 220 / 380, 230 / 400, 240 / 415, 3L / N / PE |                                                          |                                              |
| Voltage Range (V) (according to local standard) |                                             |                                              | 180 ~ 280                                                |                                              |
| Nominal Frequency (Hz)                          |                                             |                                              | 50 / 60                                                  |                                              |
| Frequency Range (Hz)                            |                                             |                                              | 45 ~ 55 / 55 ~ 65                                        |                                              |
| Nominal Current from / to Grid (A)              | 114.0 @380Vac; 108.3 @400Vac; 104.4 @415Vac | 121.6 @380Vac; 115.5 @400Vac; 111.3 @415Vac  | 152.0 @380Vac; 144.4 @400Vac; 139.2 @415Vac              | 152.0 @380Vac; 144.4 @400Vac; 139.2 @415Vac  |
| Max. Current to Grid (A) <sup>*6</sup>          | 114.0 @380Vac; 108.3 @400Vac; 104.4 @415Vac | 133.8 @380Vac; 127.1 @400Vac; 122.5 @415Vac  | 152.0 @380Vac; 144.4 @400Vac; 139.2 @415Vac              | 167.2 @380Vac; 158.8 @400Vac; 153.1 @415Vac  |
| Max. Current from Grid (A) <sup>*6</sup>        | 114.0 @380Vac; 108.3 @400Vac; 104.4 @415Vac | 133.8 @380Vac; 127.1 @400Vac; 122.5 @415Vac  | 152.0 @380Vac; 144.4 @400Vac; 139.2 @415Vac              | 167.2 @380Vac; 158.8 @400Vac; 153.1 @415Vac  |
| Power Factor                                    |                                             |                                              | 0.8 leading ~ 0.8 lagging                                |                                              |
| THDi                                            |                                             |                                              | <3%                                                      |                                              |
| <b>Backup Side<sup>*3</sup></b>                 |                                             |                                              |                                                          |                                              |
| Nominal Output Apparent Power (kVA)             | 75                                          | 80                                           | 99.99                                                    | 100                                          |
| Max. Output Apparent Power (kVA)                | 75                                          | 88                                           | 99.99                                                    | 110                                          |
| Peak Output Power without Grid (kW)             | 120% @ 60s;<br>150% @ 10s                   | 110% @ continuous; 120% @ 60s;<br>150% @ 10s | 120% @ 60s;<br>150% @ 10s                                | 110% @ continuous; 120% @ 60s;<br>150% @ 10s |
| Nominal Output Voltage (V)                      |                                             | 220 / 380, 230 / 400, 240 / 415, 3L / N / PE |                                                          |                                              |
| Nominal Output Frequency (Hz)                   |                                             | 50 / 60                                      |                                                          |                                              |
| Max. Output Current (A)                         | 114.0 @380Vac; 108.3 @400Vac; 104.4 @415Vac | 133.8 @380Vac; 127.1 @400Vac; 122.5 @415Vac  | 152.0 @380Vac; 144.4 @400Vac; 139.2 @415Vac              | 167.2 @380Vac; 158.8 @400Vac; 153.1 @415Vac  |
| THDv (@Linear Load)                             |                                             |                                              | <3%                                                      |                                              |
| On / Off-grid Switching Time                    |                                             |                                              | <10ms                                                    |                                              |
| <b>Generator Side<sup>*3</sup></b>              |                                             |                                              |                                                          |                                              |
| Nominal Apparent Power (kVA)                    | 75                                          | 80                                           | 99.99                                                    | 100                                          |
| Max. Apparent Power (kVA)                       | 75                                          | 88                                           | 99.99                                                    | 110                                          |
| Nominal Voltage (V)                             |                                             | 220 / 380, 230 / 400, 240 / 415, 3L / N / PE |                                                          |                                              |
| Nominal Frequency (Hz)                          |                                             | 50 / 60                                      |                                                          |                                              |
| Frequency Range (Hz)                            |                                             | 45 ~ 55 / 55 ~ 65                            |                                                          |                                              |
| Max. Current (A)                                | 114.0 @380Vac; 108.3 @400Vac; 104.4 @415Vac | 133.8 @380Vac; 127.1 @400Vac; 122.5 @415Vac  | 152.0 @380Vac; 144.4 @400Vac; 139.2 @415Vac              | 167.2 @380Vac; 158.8 @400Vac; 153.1 @415Vac  |
| <b>Efficiency</b>                               |                                             |                                              |                                                          |                                              |
| Max. Efficiency                                 | 98.1%                                       | 98.1%                                        | 98.1%                                                    | 98.1%                                        |
| European Efficiency                             | 97.7%                                       | 97.7%                                        | 97.7%                                                    | 97.7%                                        |
| Max. Battery to AC Efficiency                   | 98.2%                                       | 98.2%                                        | 98.2%                                                    | 98.2%                                        |
| MPPT Efficiency                                 |                                             |                                              | 99.9%                                                    |                                              |
| <b>Protection</b>                               |                                             |                                              |                                                          |                                              |
| PV String Current Monitoring                    |                                             |                                              | Integrated                                               |                                              |
| PV Insulation Resistance Detection              |                                             |                                              | Integrated                                               |                                              |
| Residual Current Monitoring                     |                                             |                                              | Integrated                                               |                                              |
| PV Reverse Polarity Protection                  |                                             |                                              | Integrated                                               |                                              |
| Battery 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 (Type I + II Optional)                           |                                              |
| AC Surge Protection                             |                                             |                                              | Type II                                                  |                                              |
| AFCI <sup>*7</sup>                              |                                             |                                              | Optional                                                 |                                              |
| Rapid Shutdown                                  |                                             |                                              | Optional                                                 |                                              |
| Remote Shutdown                                 |                                             |                                              | Optional                                                 |                                              |
| <b>General Data</b>                             |                                             |                                              |                                                          |                                              |
| Operating Temperature Range (°C)                |                                             |                                              | -35 ~ +60                                                |                                              |
| Relative Humidity                               |                                             |                                              | 0 ~ 100%                                                 |                                              |
| Max. Operating Altitude (m)                     |                                             |                                              | 4000                                                     |                                              |
| Cooling Method                                  |                                             |                                              | Smart Fan Cooling                                        |                                              |
| User Interface                                  |                                             |                                              | LED, LCD (Optional), WLAN + APP                          |                                              |
| Communication with BMS                          |                                             |                                              | CAN                                                      |                                              |
| Communication                                   |                                             |                                              | RS485, WiFi + LAN + Bluetooth, 4G + Bluetooth (Optional) |                                              |
| Communication Protocols                         |                                             |                                              | Modbus-RTU, Modbus-TCP                                   |                                              |
| Weight (kg)                                     |                                             |                                              | 97                                                       |                                              |
| Dimension (W × H × D mm)                        |                                             |                                              | 995 × 758 × 358                                          |                                              |
| Noise Emission (dB)                             |                                             |                                              | <60                                                      |                                              |
| Power Self-consumption at Night (W)             |                                             |                                              | <15                                                      |                                              |
| Ingress Protection Rating                       |                                             |                                              | IP66                                                     |                                              |
| Anti-corrosion Class                            |                                             |                                              | C4                                                       |                                              |
| Mounting Method                                 |                                             |                                              | Wall Mounted                                             |                                              |

\*1: For GW75K-ET-G10/GW80K-ET-G10/GW99.99K-ET-G10/GW100K-ET-G10, when the input voltage ranges from 950V to 1000V, the inverter will enter the standby mode, and the voltage returns to 950V to enter the normal operation state.

\*2: Please refer to the user manual for the MPPT Voltage Range at nominal Power.

\*3: The STS Box or STS Cabinet is needed.

\*4: For Chile, Max. Power (kW): GW80K-ET-G10: 80kW, GW100K-ET-G10: 100kW.

\*5: For Chile, Max. Apparent Power to Grid (kVA)/Max. Apparent Power from Grid (kVA): GW80K-ET-G10: 80kVA, GW100K-ET-G10: 100kVA.

\*6: For Chile, Max. Current to Grid (A)/Max. Current from Grid (A): GW80K-ET-G10: 121.6@380Vac, 115.5@400Vac, 111.3@415Vac; GW100K-ET-G10: 152.0@380Vac, 144.4@400Vac, 139.2@415Vac.

\*7: For Brazil, AFCI: Integrated.

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