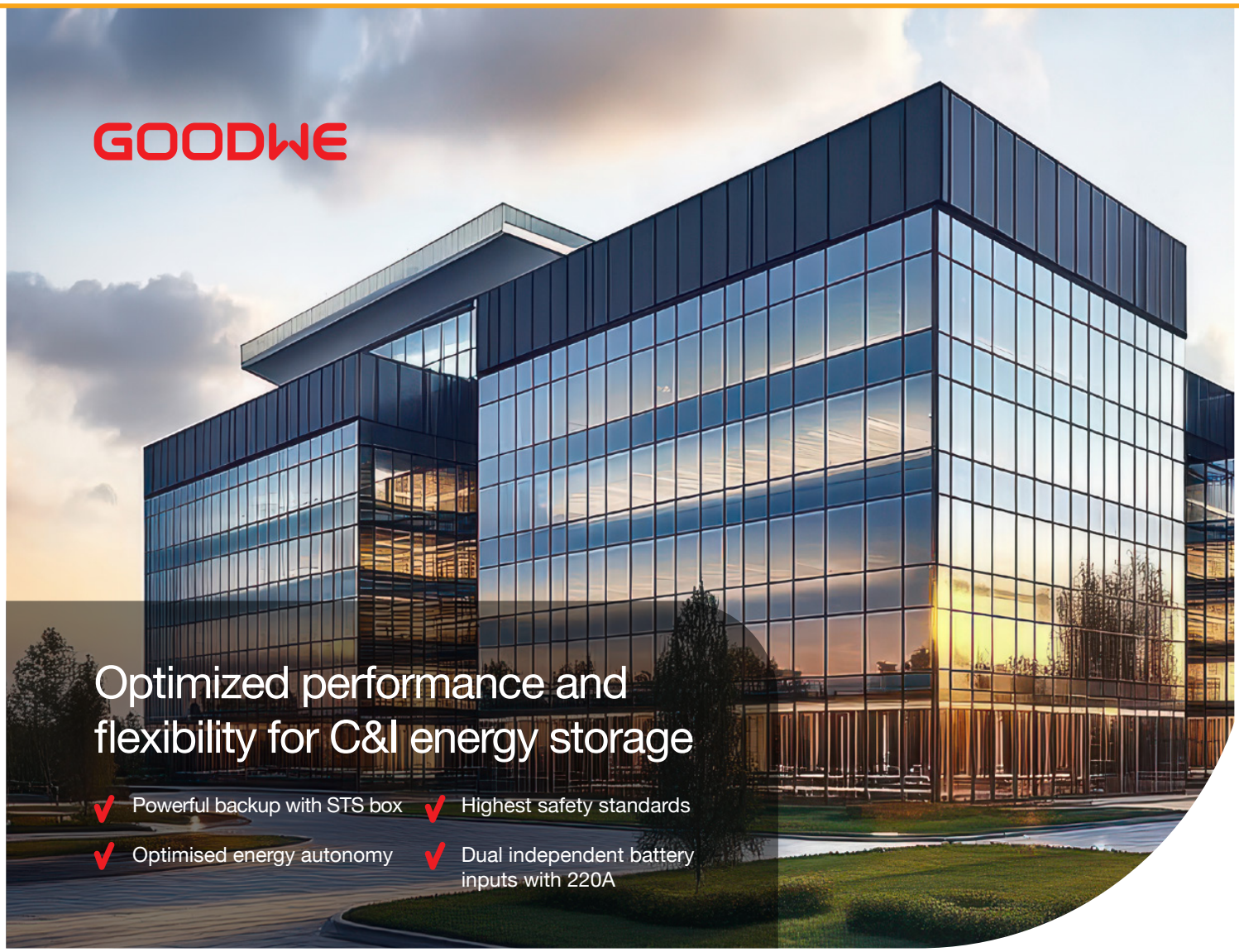


Compact yet powerful, the ET Series 80-100kW expands GoodWe's C&I solutions. It supports smart modes for self-consumption, peak shaving, time-of-use, and grid support. Parallelable for easy expansion, it pairs seamlessly with the BAT Series-each ET inverter can connect up to four BAT 112kWh units for 448kWh total capacity. With an optional STS, it can enable flexible on/off-grid operation and seamless power management.

- 21A per string & 200% PV oversizing
- Smart temperature sensing on AC and PV connector
- Smart DC circuit breaker with self-protection



**ET Series** Hybrid Inverter I 80-100kW I 8 MPPTs I Three Phase I HV **EMEA**

# ET Series

GOODWE

| Technical Data | GW80K-ET-G10 | GW99.99K-ET-G10 | GW100K-ET-G10 |
|---|---|---|---|
| **Battery Side** | | | |
| Battery Type*1 | | 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) | 100 × 2 | 110 × 2 | 110 × 2 |
| Max. Continuous Discharging Current (A) | 100 × 2 | 110 × 2 | 110 × 2 |
| Max. Charging Power (kW) | 88 | 99.99 | 110 |
| Max. Discharging Power (kW) | 88 | 99.99 | 110 |
| **PV Side** | | | |
| Max. Input Power (kW) | 160 | 200 | 200 |
| Max. Input Voltage (V)*2 | | 1000 | |
| MPPT Operating Voltage Range (V)*3 | | 160 ~ 950 | |
| Start-up Voltage (V) | | 200 | |
| Nominal Input Voltage (V) | | 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 | |
| **AC Side (on-grid)** | | | |
| Nominal Power (kW) | 80 | 99.99 | 100 |
| Max. Power (kW) | 88 | 99.99 | 110 |
| Nominal Apparent Power from/to Grid (kVA) | 80 | 99.99 | 100 |
| Max. Apparent Power to Grid (kVA) | 88 | 99.99 | 110 |
| Max. Apparent Power from Grid (kVA) | 88 | 99.99 | 110 |
| 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) | 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) | 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) | 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% | |
| **Backup Side*4** | | | |
| Nominal Output Apparent Power (kVA) | 80 | 99.99 | 100 |
| Max. Output Apparent Power (kVA) | 88 | 99.99 | 110 |
| Peak Output Power without Grid (kW) | 110% @ continuous; 120% @ 60s; 150% @ 10s | 120% @ 60s; 150% @ 10s | 110% @ continuous; 120% @ 60s; 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) | 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 | | <4ms | |
| **Generator Side*4** | | | |
| Nominal Apparent Power (kVA) | 80 | 99.99 | 100 |
| Max. Apparent Power (kVA) | 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) | 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 |
| **Efficiency** | | | |
| Max. Efficiency | 98.1% | 98.1% | 98.1% |
| European Efficiency | 97.7% | 97.7% | 97.7% |
| Max. Battery to AC Efficiency | 98.2% | 98.2% | 98.2% |
| MPPT Efficiency | | 99.9% | |
| **Protection** | | | |
| 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 | | Optional | |
| Rapid Shutdown | | Optional | |
| Remote Shutdown | | Integrated | |
| **General Data** | | | |
| 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: The Li-Ion battery usually contain two mainstream type: LFP and Ternary Lithium battery.
*2: For 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.
*3: Please refer to the user manual for the MPPT Voltage Range at nominal Power.
*4: The STS Box or STS Cabinet is needed.
*: Please visit GoodWe website for the latest certificates.

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