




Maximising energy back-up for high-power PV rooftops

- ✓ Optimised energy autonomy
- ✓ Smart and efficient operations
- ✓ Modern and compact design
- ✓ Highest safety standards

The trend of increasing PV module yield is influencing overall PV system requirements. At the forefront of development, GoodWe's ET inverters efficiently meet the needs of powerful solar rooftops to facilitate energy back-up, peak shaving and load management for optimised autonomy and reduced energy cost. The ET series can be combined with a range of battery capacities and brands, including the GoodWe Lynx Home F.

-  Peak shaving
-  UPS level switching <10ms
-  Powerful back-up overload



| Technical Data | GW15K-ET | GW20K-ET | GW25K-ET | GW29.9K-ET |
|--|-----------------------------|-----------------------------|---|-------------------|
| Battery Input Data | | | | |
| Battery Type | | | Li-Ion | |
| Nominal Battery Voltage (V) | | | 500 | |
| Battery voltage range (V) | | | 200 ~ 800 | |
| Start-up Voltage (V) | | | 180 | |
| Number of Battery Input | 1 | 1 | 2 | 2 |
| Max. Continuous Charging Current (A) | 50 | 50 | 50 × 2 | 50 × 2 |
| Max. Continuous Discharging Current (A) | 50 | 50 | 50 × 2 | 50 × 2 |
| Max. Charging Power (W) | 15000 | 20000 | 25000 | 30000 |
| Max. Discharging Power (W) | 15000 | 20000 | 25000 | 30000 |
| PV String Input Data | | | | |
| Max. Input Power (W) ¹ | 22500 | 30000 | 37500 | 45000 |
| Max. Input Voltage (V) ² | | | 1000 | |
| MPPT Operating Voltage Range (V) | | | 200 ~ 850 | |
| Start-up Voltage (V) | | | 200 | |
| Nominal Input Voltage (V) | | | 620 | |
| Max. Input Current per MPPT (A) | | | 30 | |
| Max. Short Circuit Current per MPPT (A) | | | 38 | |
| Number of MPP Trackers | 2 | 2 | 3 | 3 |
| Number of Strings per MPPT | 2 / 2 | 2 / 2 | 2 / 2 / 2 | 2 / 2 / 2 |
| AC Output Data (On-grid) | | | | |
| Nominal Output Power (W) | 15000 | 20000 | 25000 | 29900 |
| Nominal Apparent Power Output to Utility Grid (VA) | 15000 | 20000 | 25000 | 29900 |
| Max. Apparent Power Output to Utility Grid (VA) | 16500 | 22000 | 27500 | 29900 |
| Max. Apparent Power from Utility Grid (VA) | 22500 | 30000 | 33000 | 33000 |
| Nominal Output Voltage (V) | | | 380 / 400, 3L / N / PE | |
| Output Voltage Range (V) ⁴ | | | 0 ~ 300 | |
| Nominal AC Grid Frequency (Hz) | | | 50 / 60 | |
| AC Grid Frequency Range (Hz) | | | 45 ~ 65 | |
| Max. AC Current Output to Utility Grid (A) ⁷ | 23.9 | 31.9 | 39.9 | 43.3 |
| Max. AC Current From Utility Grid (A) | 34.0 | 45.0 | 50.0 | 50.0 |
| Power Factor | | | ~1 (Adjustable from 0.8 leading to 0.8 lagging) | |
| Max. Total Harmonic Distortion | | | <3% | |
| AC Output Data (Back-up) | | | | |
| Back-up Nominal Apparent Power (VA) | 15000 | 20000 | 25000 | 29900 |
| Max. Output Apparent Power without Grid(VA) ⁵ | 15000 (18000@60s, 24000@3s) | 20000 (24000@60s, 32000@3s) | 25000 (30000@60s) | 30000 (36000@60s) |
| Max. Output Apparent Power with Grid (VA) ³ | 15000 | 20000 | 25000 | 29900 |
| Max. Output Current (A) | 22.7 (27.3@60s, 36.4@3s) | 30.3 (36.4@60s, 48.5@3s) | 37.9 (45.5@60s) | 45.5 (54.5@60s) |
| Nominal Output Voltage (V) | | | 380 / 400 | |
| Nominal Output Frequency (Hz) | | | 50 / 60 | |
| Output THDv (@Linear Load) | | | <3% | |
| Efficiency | | | | |
| Max. Efficiency | | | 98.0% | |
| European Efficiency | | | 97.5% | |
| Max. Battery to AC Efficiency | | | 97.5% | |
| 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 | |
| AC Surge Protection | | | Type III | |
| AFCI | | | Optional | |
| Remote Shutdown | | | Integrated | |
| General Data | | | | |
| Operating Temperature Range (°C) | | | -35 ~ +60 | |
| Relative Humidity | | | 0 ~ 95% | |
| Max. Operating Altitude (m) | | | 4000 | |
| Cooling Method | | | Smart Fan Cooling | |
| User Interface | | | LED, WLAN + APP | |
| Communication with BMS | | | RS485 / CAN | |
| Communication with Meter | | | RS485 | |
| Communication with Portal | | | WiFi / 4G | |
| Weight (kg) | 48 | 48 | 54 | 54 |
| Dimension (W x H x D mm) | | | 520 x 660 x 220 | |
| Noise Emission (dB) | <45 | <45 | <45 | <60 |
| Topology | | | Non-isolated | |
| Self-consumption at Night (W) ⁶ | | | <15 | |
| Ingress Protection Rating | | | IP66 | |
| Mounting Method | | | Wall Mounted | |

1: Max. Input Power, not continuous for 1.5 normal power.

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

*3: According to the local grid regulation.

*4: Output Voltage Range: phase voltage.

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

*6: No Back-up Output.

*7: For 380V grid, the Max. AC Current Output to Utility Grid is 25.0A for GW15K-ET, 33.3A for GW20K-ET, 41.7A for GW25K-ET, 49.8A for GW29.9K-ET.

*: Please visit GoodWe website for the latest certificates.