

## ET Series

15-30kW | Three Phase |  
Up to 3 MPPTs | Hybrid Inverter (HV)

GoodWe ET 15-30kW Series inverter is ideal for large residential or small commercial and industrial applications. As the core of the energy storage solution, the high-voltage inverters facilitate powerful energy backup and load management for optimized autonomy and reduced energy cost. The ET inverters also present peak shaving that balances power demand and grid power imported, to effectively reduce extra grid demand. Furthermore, thanks to dry contact in the inverter, external loads such as heat pumps can also be flexibly activated to optimize energy consumption. The series can be combined with a range of battery capacities and brands, including the GoodWe Lynx Home F.



### Smart Control & Monitoring

- Integrated dry contact for external loads
- Peak shaving



### Friendly & Thoughtful Design

- Elegant and compact design
- Plug & Play installations



### Superb Safety & Reliability

- Type II SPD on DC side
- AFCI optional<sup>1</sup>



### Flexible & Adaptable Applications

- Max. 15A DC input current per string
- Up to 150% DC input oversizing

<sup>1</sup>: Optional functions or devices are purchased separately.

| Technical Data  | GW15K-ET                    | GW20K-ET                    | GW25K-ET  | GW29.9K-ET        | GW30K-ET          |
|---|-----------------------------|-----------------------------|---|-------------------|-------------------|
| <b>Battery Input Data</b>                                 |                             |                             |   |                   |                   |
| 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                 | 2                 |
| Max. Continuous Charging Current (A)                      | 50                          | 50                          | 50 × 2  | 50 × 2            | 50 × 2            |
| Max. Continuous Discharging Current (A)                   | 50                          | 50                          | 50 × 2  | 50 × 2            | 50 × 2            |
| Max. Charging Power (W)                                   | 15000                       | 20000                       | 25000   | 30000             | 30000             |
| Max. Discharging Power (W)                                | 15000                       | 20000                       | 25000   | 30000             | 30000             |
| <b>PV String Input Data</b>                               |                             |                             |   |                   |                   |
| Max. Input Power (W) <sup>1</sup>                         | 22500                       | 30000                       | 37500   | 45000             | 45000             |
| Max. Input Voltage (V) <sup>2</sup>                       |                             |                             | 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                 | 3                 |
| Number of Strings per MPPT                                | 2 / 2                       | 2 / 2                       | 2 / 2 / 2                                       | 2 / 2 / 2         | 2 / 2 / 2         |
| <b>AC Output Data (On-grid)</b>                           |                             |                             |   |                   |                   |
| Nominal Output Power (W)                                  | 15000                       | 20000                       | 25000   | 29900             | 30000             |
| Nominal Apparent Power Output to Utility Grid (VA)        | 15000                       | 20000                       | 25000   | 29900             | 30000             |
| Max. Apparent Power Output to Utility Grid (VA)           | 16500                       | 22000                       | 27500   | 29900             | 33000             |
| Max. Apparent Power from Utility Grid (VA)                | 22500                       | 30000                       | 33000   | 33000             | 33000             |
| Nominal Output Voltage (V)                                |                             |                             | 380 / 400, 3L / N / PE                          |                   |                   |
| Output Voltage Range (V) <sup>4</sup>                     |                             |                             | 0 ~ 300   |                   |                   |
| Nominal AC Grid Frequency (Hz)                            |                             |                             | 50 / 60   |                   |                   |
| AC Grid Frequency Range (Hz)                              |                             |                             | 45 ~ 65   |                   |                   |
| Max. AC Current Output to Utility Grid (A) <sup>8</sup>   | 23.9                        | 31.9                        | 39.9  | 43.3              | 47.8              |
| Max. AC Current From Utility Grid (A)                     | 34.0                        | 45.0                        | 50.0  | 50.0              | 50.0              |
| Power Factor  |                             |                             | ~1 (Adjustable from 0.8 leading to 0.8 lagging) |                   |                   |
| Max. Total Harmonic Distortion                            |                             |                             | <3%   |                   |                   |
| <b>AC Output Data (Back-up)</b>                           |                             |                             |   |                   |                   |
| Back-up Nominal Apparent Power (VA)                       | 15000                       | 20000                       | 25000   | 29900             | 30000             |
| Max. Output Apparent Power without Grid (VA) <sup>5</sup> | 15000 (18000@60s, 24000@3s) | 20000 (24000@60s, 32000@3s) | 25000 (30000@60s)                               | 30000 (36000@60s) | 30000 (36000@60s) |
| Max. Output Apparent Power with Grid (VA) <sup>3</sup>    | 15000                       | 20000                       | 25000   | 29900             | 30000             |
| 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)   | 45.5 (54.5@60s)   |
| Nominal Output Voltage (V)                                |                             |                             | 380 / 400                                       |                   |                   |
| Nominal Output Frequency (Hz)                             |                             |                             | 50 / 60   |                   |                   |
| Output THDv (@Linear Load)                                |                             |                             | <3%   |                   |                   |
| <b>Efficiency</b>   |                             |                             |   |                   |                   |
| Max. Efficiency   |                             |                             | 98.0%   |                   |                   |
| European Efficiency                                       |                             |                             | 97.5%   |                   |                   |
| Max. Battery to AC Efficiency                             |                             |                             | 97.5%   |                   |                   |
| 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 <sup>6</sup>                                    |                             |                             | Integrated                                      |                   |                   |
| DC Surge Protection                                       |                             |                             | Type II   |                   |                   |
| AC Surge Protection                                       |                             |                             | Type III  |                   |                   |
| AFCI  |                             |                             | Optional  |                   |                   |
| Rapid Shutdown  |                             |                             | Optional  |                   |                   |
| Remote Shutdown   |                             |                             | Integrated                                      |                   |                   |
| <b>General Data</b>                                       |                             |                             |   |                   |                   |
| 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                | 54                |
| Dimension (W × H × D mm)                                  |                             |                             | 520 × 660 × 220                                 |                   |                   |
| Noise Emission (dB)                                       | <45                         | <45                         | <45   | <60               | <60               |
| Topology  |                             |                             | Non-isolated                                    |                   |                   |
| Self-consumption at Night (W) <sup>7</sup>                |                             |                             | <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: DC Switch: GHX6-55P (for Australia).

\*7: No Back-up Output.  
 \*8: 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, 50.0A for GW30K-ET.  
 \*: For 380V grid, the Nominal Output Current is 22.7A for GW15K-ET, 30.3A for GW20K-ET, 37.9A for GW25K-ET, 45.3A for GW29.9K-ET, 45.5A for GW30K-ET.  
 \*: Please visit GoodWe website for the latest certificates.  
 \*: All pictures shown are for reference only. Actual appearance may vary.