

ET Series

15-29.9 kW | Three phase
Up to 3 MPPTs | Hybrid Inverter (HV)

The GoodWe ET 15kW-29.9kW Series inverter is ideal for residential, small to medium commercial and industrial applications. As the core of an energy storage solution, the ET inverter massively lowers energy costs by efficiently storing the solar power for flexible use and increasing self-consumption. Peak shaving balances power demand and grid power imported, to effectively reduce extra grid demand for the most cost-effective use for your property. When paired with the GoodWe Home F Series battery, this offers a one-stop shop solution for Three Phase systems. This series is available in 15kW, 20kW, 25kW and 29.9kW models.



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 optional¹



Flexible & Adaptable Applications

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

¹: Optional functions or devices are purchased separately.

| 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 | 12500 × 2 | 15000 × 2 |
| Max. Discharging Power (W) | 15000 | 20000 | 12500 × 2 | 15000 × 2 |
| 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 | |
| Max. AC Current Output to Utility Grid (A) | 23.9 | 31.9 | 39.9 | 43.3 |
| Max. AC Current From Utility Grid (A) | 34.0 | 45.0 | 50.0 | 50.0 |
| Nominal Output Current (A) | 21.7 | 29.0 | 36.2 | 43.3 |
| Power Factor | | ~1 (Adjustable from 0.8 leading~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 | | | GHX6-55P | |
| DC Surge Protection | | | Type II | |
| AC Surge Protection | | | Type III | |
| AFCI | | | Optional | |
| 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 × H × D mm) | | | 520 × 660 × 220 | |
| Noise Emission (dB) | <45 | <45 | <45 | <60 |
| Topology | | | Non-isolated | |
| Self-consumption at Night (W) ⁶ | | | <15 | |
| Ingress Protection Rating | | | IP66 | |
| Overvoltage Category | | | DC II / AC III | |
| Protective Class | | | I | |
| Mounting Method | | | Wall Mounted | |
| Country of Manufacture | | | China | |

*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.
 *: Please visit GoodWe website for the latest certificates.
 *: All pictures shown are for reference only. Actual appearance may vary.

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