GOODWE

ET Series

15-29.9 kW I Three phase Up to 3 MPPTs I 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 costeffective 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.



Friendly & Thoughtful Design

· Elegant and compact design

Plug & Play installations



Superb Safety & Reliability

Smart Control & Monitoring

· Integrated dry contact for external loads

Type II SPD on DC side
 AFCI optional¹

· Peak shaving

Flexible & Adaptable Applications

Max 15A DC input current per string
 Up to 200% DC input oversizing

ET 15-29.9kW Series

GOODWE

| Technical Data | GW15K-ET | GW20K-ET | GW25K-ET | GW29.9K-E |
|--|---|--|---|------------------|
| Battery Input Data | | | | |
| Battery Type | | | lon | |
| Nominal Battery Voltage (V) | 500 200 ~ 800 | | | |
| Battery voltage range (V) 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) Max. Charging Power (W) | 50 15000 | 50 20000 | 50 × 2 25000 | 50 × 2 30000 |
| Max. Discharging Power (W) | 15000 | 20000 | 25000 | 30000 |
| PV String Input Data | | | | |
| Max. Input Power (W) ^{*1} | 30000 | 40000 | 50000 | 59800 |
| Max. Input Voltage (V)*2 | 30000 | | 00 | 39600 |
| MPPT Operating Voltage Range (V) | | | - 850 | |
| Start-up Voltage (V) Nominal Input Voltage (V) | | 20 | 00 | |
| Max. Input Current per MPPT (A) | | | 0 | |
| Max. Short Circuit Current per MPPT (A) | | 3 | 8 | |
| Number of MPP Trackers | 2 | 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) Max. Apparent Power Output to Utility Grid (VA) ³³⁹ | <u>15000</u> 16500 | 20000 22000 | 25000 27500 | 29900 |
| Max. Apparent Power from Utility Grid (VA)** | 15000 | 20000 | 25000 | 30000 |
| Nominal Output Voltage (V) | | 380 / 400, | | |
| Output Voltage Range (V) ⁻⁴ Nominal AC Grid Frequency (Hz) | 0 ~ 300 50 / 60 | | | |
| AC Grid Frequency Range (Hz) | | 45 - | | |
| Max. AC Current Output to Utility Grid (A) | 23.9 | 31.9 | 39.9 | 43.3 |
| Max. AC Current From Utility Grid (A) ^{-s} Nominal Output Current (A) | 21.7 | 29.0 | 36.2 | 43.3 |
| Power Factor | 21.7 29.0 36.2 43.3 ~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 | | 20000 (24000@60s, 32000@3s) | 25000 (30000@60s) | 30000 (36000@60: |
| Max. Output Apparent Power with Grid (VA) | 15000 | 20000 | 25000 | 29900 |
| Max. Output Current (A) Nominal Output Voltage (V) | 22.7 (27.3@60s, 36.4@3s) | 30.3 (36.4@60s, 48.5@3s) 380 | 37.9 (45.5@60s) | 45.5 (54.5@60s) |
| | | | | |
| Nominal Output Freqency (Hz) | | 50 | / 60 | |
| Nominal Output Freqency (Hz) Output THDv (@Linear Load) | | | / 60 3% | |
| | | | | |
| Output THDv (@Linear Load) Efficiency Max. Efficiency | | <3 | 0% | |
| Output THDv (@Linear Load) Efficiency Max. Efficiency European Efficiency | | < 98. 97. | 0% 5% | |
| Output THDv (@Linear Load) Efficiency Max. Efficiency European Efficiency Max. Battery to AC Efficiency | | 98. 97. 97. | % 0% 5% 5% | |
| Output THDv (@Linear Load) Efficiency Max. Efficiency European Efficiency Max. Battery to AC Efficiency MPPT Efficiency | | < 98. 97. | % 0% 5% 5% | |
| Output THDv (@Linear Load) Efficiency Max. Efficiency European Efficiency Max. Battery to AC Efficiency MPPT Efficiency Protection | | <: 98. 97. 97. 99. | 9% 0% 5% 5% 9% | |
| Output THDv (@Linear Load) Efficiency Max. Efficiency Max. Batficiency Max. Batficency MPPT Efficiency Protection PV String Current Monitoring | | <: 98. 97. 97. 99. 1nteg | % 0% 5% 5% 9% rated | |
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*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.

*6: No Back-up Output.
*7: When the load is connected to the inverter's backup port, the Max. Apparent Power from Utility Grid can reach to 22.5K for GW15K-ET, 30K for GW20K-ET,

China 33K for GW25K-ET, 33K for GW29.9K-ET, and 33K for GW30K-ET respectively. *8: When the load is connected to the inverter's backup port, the Max. AC Current From Utility Grid can reach to 34A for GW15K-ET, 45A for GW20K-ET, 50A for GW25K-ET, 50A for GW29.9K-ET, and 50A for GW30K-ET respectively. *9: For Austria, Max. Output Power (W) is 15K for GW15K-ET, 20K for GW20K-ET, 25K for GW25K-ET, 29.9K for GW29.9K-ET, and 30K for GW30K-ET. *: Please visit GoodWe website for the latest certificates. *: All pictures shown are for reference only. Actual appearance may vary.