



Smart Control & Monitoring

- · Smart load control with dry contacts
- · Smart home integration with multi-protocol communications



Superb Safety & Reliability

- · Optional AFCI on DC side1
- · Remote Shutdown



Friendly & Thoughtful Design

- · Plug & Play
- · Elegant and compact design



Flexible & Adaptable Applications

- · Maximum 16A DC input current per string and high-power module compatibility
- · Strong backup power supply



| Technical Data | GW3000-ES-20 | GW3600-ES-20 (| W3600M-ES | -20 GW5000-ES-20 GV | V5000M-ES- | 20 GW6000-ES-20 G | W6000N |
|---|--------------|---------------------|--------------|--------------------------------|--------------------|--------------------|-------------|
| Battery Input Data | | | | | | | |
| Battery Type ^{*1} | | | | Li-lon | | | |
| Nominal Battery Voltage (V) | | | | 48 | | | |
| Battery Voltage Range (V) | | | | 40 ~ 60 | | | |
| Max. Continuous Charging Current (A)*1 | 60 | 75 | 60 | 120 | 60 | 120 | 60 |
| Max. Continuous Discharging Current (A)*1 | 60 | 75 | 60 | 120 | 60 | 120 | 60 |
| Max. Charging Power (W)*1 | 3000 | 3600 | 3000 | 5000 | 3000 | 6000 | 300 |
| Max. Discharging Power (W) | 3200 | 3900 | 3200 | 5300 | 3200 | 6300 | 320 |
| PV String Input Data | | | | | | | |
| Max. Input Power (W)*2 | 4500 | 5400 | 5400 | 7500 | 7500 | 9000 | 900 |
| Max. Input Voltage (V) | | | | 600 | | | |
| MPPT Operating Voltage Range (V) | | | | 60 ~ 550 | | | |
| Start-up Voltage (V) Nominal Input Voltage (V) | | | | 58 | | | |
| Max. Input Current per MPPT (A) | | | | 360 16 | | | |
| Max. Short Circuit Current per MPPT (A) | | | | 23 | | | |
| Number of MPP Trackers | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| Number of Strings per MPPT | | | | 1 | | | |
| AC Output Data (On-grid) | | | | | | | |
| Nominal Apparent Power Output to Utility Grid (VA) | 3000 | 3680 | 3680 | 5000 ^{*3} | 5000 ^{*3} | 6000 ^{*3} | 6000 |
| Nominal Apparent Power Output to Utility Grid (VA) Max. Apparent Power Output to Utility Grid (VA) | 3000 | 3680 | 3680 | 5000° | 5000° | 6000*3 | 6000 |
| Max. Apparent Power from Utility Grid (VA) | 6000 | 7360 | 3680 | 10000 | 5000 | 10000 | 6000 |
| Nominal Output Voltage (V) | 0000 | | 0000 | 220 / 230 / 240 | 0000 | 1,0000 | |
| Output Voltage Range (V) | | | | 170 ~ 280 | | | |
| Nominal AC Grid Frequency (Hz) | | | | 50 / 60 | | | |
| Max. AC Current Output to Utility Grid (A) | 13.6 | 16.7 | 16.7 | 22.7 | 22.7 | 27.3 | 27.0 |
| Max. AC Current From Utility Grid (A) Nominal Output Current (A) | 27.3 13.0 | 33.5 | 16.7 16.0 | 43.5 21.7 | 22.7 | 43.5 26.1 | 27.3 26. |
| Power Factor | 13.0 | 16.0 | | ble from 0.8 leading to | | | 20. |
| Max. Total Harmonic Distortion | | | ~ I (Aujusta | <3% | u.o laggilig |) | |
| AC Output Data (Back-up) | | | | 1070 | | | |
| | 3000 | 3680 | 0000 | 5000 | F000 | 6000 | 000 |
| Back-up Nominal Apparent Power (VA) Max. Output Apparent Power (VA) | |) 3680 (7360@10sec) | 3680 3680 | 5000 (10000@10sec) | 5000 5000 | 6000 (10000@10sec) | 600 |
| Max. Output Current (A) | 13.6 | 16.7 | 16.7 | 22.7 | 22.7 | 27.3 | 27.3 |
| Nominal Output Voltage (V) | | | | 220 / 230 / 240 | | | |
| Nominal Output Frequency (Hz) | | | | 50 / 60 | | | |
| Output THDv (@Linear Load) | | | | <3% | | | |
| Efficiency | | | | | | | |
| Max. Efficiency | | | | 97.6% | | | |
| European Efficiency | | | | 96.7% | | | |
| Max. Battery to AC Efficiency | | | | 95.5% | | | |
| MPPT Efficiency | | | | 99.9% | | | |
| Protection | | | | | | | |
| PV String Current Monitoring | | | | Integrated | | | |
| PV Insulation Resistance Detection Residual Current Monitoring | | | | Integrated Integrated | | | |
| PV 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 AC Surge Protection | | | | Type II Type III | | | |
| AFCI | | | | Optional | | | |
| Remote Shutdown | | | | Integrated | | | |
| General Data | | | | | | | |
| Operating Temperature Range (°C) | | | | -25 ~ +60 | | | |
| Relative Humidity | | | | 0 ~ 95% | | | |
| Max. Operating Altitude (m) | | | | 3000 (>2000 Derating) | | | |
| Cooling Method | | | | Natural Convection | | | |
| Display | | | - | LED, WLAN + APP | | | |
| Communication with BMS | | | | CAN | | | |
| Communication with Meter | | | | RS485 | | | |
| Communication with Portal Weight (kg) | 19.6 | 20.8 | 20.0 | WiFi / WiFi + LAN / 4G 21.5 | 20.0 | 21.5 | 20.0 |
| Dimension (W × H × D mm) | 13.0 | ۷۷.0 | ۷.0 | 505.9 × 434.9 × 154.8 | 20.0 | ۷.۱.۵ | 20.0 |
| Topology | | | | Non-isolated | | | |
| Self-consumption at Night (W) | | | | <10 | | | |
| Ingress Protection Rating | | | | IP65 | | | |
| Mounting Method | | <u> </u> | | Wall Mounted | | | |
| Country of Manufacture | | | | China | | | |
| Souritry of Maridiacture | | | | | | | |

^{*1:} The actual charge and discharge current / power also depends on the battery.
*2: The max power is the actual power of PV.
*3: 4600 for VDE-AR-N4105 & NRS 097-2-1.

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