

## HT Series

### 225/250kW | Three Phase 6/12 MPPTs

The new HT 1500V series (225/250kW) is GoodWe's largest inverter, with an extensive list of features designed to reduce system, operation and maintenance costs. It is a perfect choice for utility-scale solar plants, to maximise the return on investment. The series boasts options of 6 MPPTs or 12 MPPTs, power line communication 2.0 and is compatible with bi-facial 182mm/210mm modules. String level monitoring and incorporated I-V curve diagnosis features, provide intelligent detection of voltage and current issues. The series is also equipped with 24 hour monitoring and an optional PID recovery function. Configuration of the HT 1500V can be easily done via Bluetooth, while firmware diagnosis and upgrading can be operated remotely. These features and specifications were conceived to ensure the lowest levelized cost of energy (LCOE) and a utility that runs efficiently.



20 A max. current per string<sup>1</sup>



Smart string protection switch<sup>1</sup>



String level monitoring



Power line communication 2.0

| Technical Data                          | GW225K-HT                                       | GW250K-HT             | GW225KN-HT            | GW250KN-HT            |
|-----------------------------------------|-------------------------------------------------|-----------------------|-----------------------|-----------------------|
| <b>Input</b>                            |                                                 |                       |                       |                       |
| Max. Input Voltage (V)                  | 1500                                            | 1500                  | 1500                  | 1500                  |
| MPPT Operating Voltage Range (V)        | 500~1500                                        | 500~1500              | 500~1500              | 500~1500              |
| Start-up Voltage (V)                    | 550                                             | 550                   | 550                   | 550                   |
| Nominal Input Voltage (V)               | 1160                                            | 1160                  | 1160                  | 1160                  |
| Max. Input Current per MPPT (A)         | 30                                              | 30                    | 60                    | 60                    |
| Max. Short Circuit Current per MPPT (A) | 50                                              | 50                    | 90                    | 90                    |
| Number of MPP Trackers                  | 12                                              | 12                    | 6                     | 6                     |
| Number of Strings per MPPT              | 2                                               | 2                     | 3                     | 3                     |
| <b>Output</b>                           |                                                 |                       |                       |                       |
| Nominal Output Power (kW)               | 225                                             | 250                   | 225                   | 250                   |
| Max. AC Active Power (kW)               | 247.5                                           | 250                   | 247.5                 | 250                   |
| Max. AC Apparent Power (kVA)            | 247.5                                           | 250                   | 247.5                 | 250                   |
| Nominal Output Voltage (V)              | 800, 3L / PE                                    | 800, 3L / PE          | 800, 3L / PE          | 800, 3L / PE          |
| Nominal AC Grid Frequency (Hz)          | 50 / 60                                         | 50 / 60               | 50 / 60               | 50 / 60               |
| Max. Output Current (A)                 | 178.7                                           | 180.5                 | 178.7                 | 180.5                 |
| Power Factor                            | ~1 (Adjustable from 0.8 leading to 0.8 lagging) |                       |                       |                       |
| Max. Total Harmonic Distortion          | <3%                                             | <3%                   | <3%                   | <3%                   |
| <b>Efficiency</b>                       |                                                 |                       |                       |                       |
| Max. Efficiency                         | 99.0%                                           | 99.0%                 | 99.0%                 | 99.0%                 |
| European Efficiency                     | 98.8%                                           | 98.8%                 | 98.8%                 | 98.8%                 |
| <b>Protection</b>                       |                                                 |                       |                       |                       |
| PV String Current Monitoring            | Integrated                                      | Integrated            | Integrated            | Integrated            |
| Internal Humidity Monitoring            | Integrated                                      | Integrated            | Integrated            | Integrated            |
| PV Insulation Resistance Detection      | Integrated                                      | Integrated            | Integrated            | Integrated            |
| Residual Current Monitoring             | Integrated                                      | Integrated            | Integrated            | Integrated            |
| PV Reverse Polarity Protection          | Integrated                                      | Integrated            | Integrated            | Integrated            |
| Anti-islanding Protection               | Integrated                                      | Integrated            | Integrated            | Integrated            |
| AC Overcurrent Protection               | Integrated                                      | Integrated            | Integrated            | Integrated            |
| AC Short Circuit Protection             | Integrated                                      | Integrated            | Integrated            | Integrated            |
| AC Overvoltage Protection               | Integrated                                      | Integrated            | Integrated            | Integrated            |
| DC Surge Protection                     | Type II                                         | Type II               | Type II               | Type II               |
| AC Surge Protection                     | Type II                                         | Type II               | Type II               | Type II               |
| AFCI                                    | Optional                                        | Optional              | Optional              | Optional              |
| PID Recovery                            | Optional                                        | Optional              | Optional              | Optional              |
| <b>General Data</b>                     |                                                 |                       |                       |                       |
| Operating Temperature Range (°C)        | -30 ~ +60                                       | -30 ~ +60             | -30 ~ +60             | -30 ~ +60             |
| Relative Humidity                       | 0~100%                                          | 0~100%                | 0~100%                | 0~100%                |
| Max. Operating Altitude (m)             | 5000 (>4000 derating)                           | 5000 (>4000 derating) | 5000 (>4000 derating) | 5000 (>4000 derating) |
| Cooling Method                          | Smart Fan Cooling                               | Smart Fan Cooling     | Smart Fan Cooling     | Smart Fan Cooling     |
| Display                                 | LED (LCD optional), Bluetooth+APP               |                       |                       |                       |
| Communication                           | RS485 & PLC                                     | RS485 & PLC           | RS485 or PLC          | RS485 & PLC           |
| Weight (kg)                             | 111                                             | 111                   | 111                   | 111                   |
| Dimension WxHxD (mm)                    | 1091 × 678 × 341                                | 1091 × 678 × 341      | 1091 × 678 × 341      | 1091 × 678 × 341      |
| Topology                                | Non-isolated                                    | Non-isolated          | Non-isolated          | Non-isolated          |
| Ingress Protection Rating               | IP66                                            | IP66                  | IP66                  | IP66                  |
| DC Connector                            | MC4-Evo2                                        | MC4-Evo2              | MC4-Evo2              | MC4-Evo2              |
| AC Connector                            | OT / DT terminal (Max. 300 mm <sup>2</sup> )    |                       |                       |                       |

\*: All pictures shown are for reference only. Actual appearance may vary.

\*: For GW225KN-HT/GW250KN-HT only.

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\*: Please visit GoodWe website for the latest certificates.