



Unlimited Solar Power



HT Series


10 / 12-MPPTS, Three Phase

100-136KW


The new HT series (100-136 kW) is the ultimate high-power string inverter for the C&I and Utility sector with an extensive list of features designed to reduce system and O&M costs. The HT series offers 100kW-136kW models with 1100V DC input. The 100kW model comes with 10MPPTS and higher capacities of 110/120/136kW with 12 MPPTS. Low voltage grid operational capability of 400V is available on 100/110/120kW versions and high voltage 500/540V on the 136kW version. Working at max. 15A DC input current per string, the HT-Series is compatible with Bi-facial modules, with a higher threshold of DC current. Anti-PID and AFCI (Arc-fault circuit interrupter) are optional. Configuration can be easily done via Bluetooth and firmware diagnosis & upgrading can be operated remotely. The HT can be powered by the grid on the AC side, allowing for 24-hour monitoring and O&M during nighttime. The HT series seamlessly incorporates different sets of technical strengths designed to achieve higher savings in the installation, enhance productivity and diversify available monitoring options, taking safety to the maximum possible level in accordance with the strictest industry standards.


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Compatible with Bifacial Modules
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String Level Monitoring
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Easy and Quick Configuration via Bluetooth
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Power Line Communication
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AC Terminal Over Temperature Protection
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Internal Humidity Detection

HT Series Datasheet



| Technical Data | GW100K-HT | GW110K-HT | GW120K-HT | GW136K-HTH |
|---|---|-----------------------|-----------------------|--------------|
| PV String Input Data | | | | |
| Max. DC Input Power (kW) | 150 | 165 | 180 | 205 |
| Max. DC Input Voltage (V) | 1100 | 1100 | 1100 | 1100 |
| MPPT Range (V) | 180~1000 | 180~1000 | 180~1000 | 180~1000 |
| Min. Start-up Voltage (V) | 200 | 200 | 200 | 200 |
| MPPT Range for Full Load (V) | 470~850 | 470~850 | 470~850 | 620~850 |
| Nominal DC Input Voltage (V) | 600 | 600 | 600 | 750 |
| Max. Input Current (A) | 10*30A | 10*30A | 12*30A | 12*30A |
| Max. Short Current (A) | 10*45A | 10*45A | 12*45A | 12*45A |
| No. of MPP Trackers | 10 | 10 | 12 | 12 |
| No. of Input Strings per Tracker | 2 | 2 | 2 | 2 |
| AC Output Data | | | | |
| Nominal Output Power (kW) | 100 | 110 | 120 | 136 |
| Max. Output Power (kW) | 110 | 121 | 132 | 150 |
| Max. Output Apparent Power (kVA) | 110 | 121 | 132 | 150 |
| Nominal Output Voltage (V) | 400, 3L/N/PE or 3L/PE | 400, 3L/N/PE or 3L/PE | 400, 3L/N/PE or 3L/PE | 500V, 3L/PE |
| Nominal Output Frequency (Hz) | 50/60 | 50/60 | 50/60 | 50/60 |
| Max. Output Current (A) | 167 | 175.5 | 191.3 | 173.2A |
| Output Power Factor | ~1 (Adjustable from 0.8 leading to 0.8 lagging) | | | |
| Output THDi (@Nominal Output) | <3% | <3% | <3% | <3% |
| Efficiency | | | | |
| Max. Efficiency | 98.6% | 98.6% | 98.6% | 99.0% |
| European Efficiency | 98.3% | 98.3% | 98.3% | 98.5% |
| Protection | | | | |
| PV String Current Monitoring | Integrated | Integrated | Integrated | Integrated |
| Internal Humidity Detection | Integrated | Integrated | Integrated | Integrated |
| Insulation Resistor Detection | Integrated | Integrated | Integrated | Integrated |
| Residual Current Monitoring | Integrated | Integrated | Integrated | Integrated |
| Anti-islanding Protection | Integrated | Integrated | Integrated | Integrated |
| Input Reverse Polarity Protection | Integrated | Integrated | Integrated | Integrated |
| DC SPD Protection | Type II (Type I optional) | | | |
| AC SPD Protection | Type II (Type I optional) | | | |
| Output Over Current Protection | Integrated | Integrated | Integrated | Integrated |
| Output Short Protection | Integrated | Integrated | Integrated | Integrated |
| Output Over Voltage Protection | Integrated | Integrated | Integrated | Integrated |
| Arc Fault Protection | Optional | Optional | Optional | Optional |
| Emergency Power off | Optional | Optional | Optional | Optional |
| AC Terminal Over-temperature Protection | Optional | Optional | Optional | Optional |
| PID Recovery | Optional | Optional | Optional | Optional |
| General Data | | | | |
| Operating Temperature Range (° C) | -30~60 | -30~60 | -30~60 | -30~60 |
| Relative Humidity | 0~100% | 0~100% | 0~100% | 0~100% |
| Operating Altitude (m) | ≤4000 | ≤4000 | ≤4000 | ≤4000 |
| Cooling | Fan Cooling | Fan Cooling | Fan Cooling | Fan Cooling |
| Display | LED(Standard), LCD(Optional), Bluetooth+APP | | | |
| Communication | RS485 or PLC or WiFi | RS485 or PLC or WiFi | RS485 or PLC or WiFi | RS485 & PLC |
| Weight (kg) | 93.5 | 93.5 | 98.5 | 98.5 |
| Dimension (Width*Height*Depth mm) | 1005*676*340 | 1005*676*340 | 1005*676*340 | 1005*676*340 |
| Protection Degree | IP66 | IP66 | IP66 | IP66 |
| Night Self Consumption (W) | <2 | <2 | <2 | <2 |
| Topology | Transformerless | | | |

*: Please visit GoodWe website for the latest certificates.