

HT Series | 1100Vdc

100-136kW | Three Phase |
Up to 12 MPPTs

The new HT 1100Vdc series (100-136kW) of inverters are suited for Commercial and small utility scale applications and is compatible with bifacial modules, with a higher threshold of DC current (Max. 15A per string). It also includes PLC communication and internal humidity detection and up to 12 MPPTs for the most complex rooftop configurations. 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. This inverter comes with an optional AC switch for reduced overall costs and reduced installation time. Configuration 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.



Compatible with bifacial module



Easy and quick configuration via Bluetooth



Power line communication



String level monitoring

Technical Data	GW100K-HT	GW110K-HT	GW120K-HT	GW136K-HTH
Input				
Max. Input Power (kW)	150	165	180	205
Max. Input Voltage (V)	1100	1100	1100	1100
MPPT Operating Voltage Range (V)	180 ~ 1000	180 ~ 1000	180 ~ 1000	180 ~ 1000
Start-up Voltage (V)	200	200	200	200
Nominal Input Voltage (V)	600	600	600	750
Max. Input Current per MPPT (A)	30	30	30	30
Max. Short Circuit Current per MPPT (A)	45	45	45	45
Number of MPP Trackers	10	12	12	12
Number of Strings per MPPT	2	2	2	2
Output				
Nominal Output Power (kW)	99.99	110	120	136
Nominal Output Apparent Power (kVA)	99.99	110	120	136
Max. AC Active Power (kW)	99.99 ²	121 ²	132 ²	150 ²
Max. AC Apparent Power (kVA)	99.99 ³	121 ³	132 ³	150 ³
Nominal Output Voltage (V)		400, 3L / N / PE or 3L / PE ¹		500, 3L / PE
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60	50 / 60	50 / 60
Max. Output Current (A)	167.0	175.5	191.3	173.2
Power Factor		~ 1 (Adjustable from 0.8 leading to 0.8 lagging)		
Max. Total Harmonic Distortion	<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
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 Switch	Integrated	Integrated	Integrated	Integrated
DC Surge Protection		Type II (Type I optional)		
AC Surge Protection		Type II (Type I optional)		
AFCI	Optional	Optional	Optional	Optional
Remote Shutdown	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%
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
User Interface	LED, LCD (Optional), WLAN + APP			
Communication	RS485, WiFi or 4G (Optional)			RS485, WiFi or 4G or PLC (Optional)
Communication Protocols	Modbus-RTU (SunSpec Compliant)			
Weight (kg)	93.5	98.5	98.5	98.5
Dimension (W x H x D mm)	1008 x 678 x 343	1008 x 678 x 343	1008 x 678 x 343	1008 x 678 x 343
Topology	Non-isolated	Non-isolated	Non-isolated	Non-isolated
Self-consumption at Night (W)	<2	<2	<2	<2
Ingress Protection Rating	IP66	IP66	IP66	IP66
DC Connector	MC4(4 ~ 6mm ²)	MC4(4 ~ 6mm ²)	MC4(4 ~ 6mm ²)	MC4(4 ~ 6mm ²)
AC Connector		OT / DT terminal (Max. 300mm ²)		
Country of Manufacture	China	China	China	China

*1: For Brazil, Nominal Output Voltage (V): 380, 3L / N / PE or 3L / PE.

*2: For Belgium, Max. AC Active Power (kW): GW100K-HT is 100, GW110K-HT is 110, GW120K-HT is 120, GW136K-HTH is 136.

*3: For Belgium, Max. AC Apparent Power (kVA): GW100K-HT is 100, GW110K-HT is 110, GW120K-HT is 120, GW136K-HTH is 136.

*: Please visit GoodWe website for the latest certificates.