

HT Series | 1100Vdc

100-120kW | Three Phase | Up to 12 MPPTs

The HT 1100 Vdc Series 100-120kW is GoodWe's new string inverter for C&I and small utility projects to boost your power and profit. Generate your solar power and make use of it with this centerpiece of the clean energy system. The HT Series seamlessly incorporates its technical strengths designed to achieve higher savings in the installation, enhance productivity with increased energy yields, realize high power density and diversify available monitoring options. It takes safety to the top possible level in accordance with the strictest industry standards and runs efficiently even under the harshest environmental conditions. This unrivalled set of features was conceived to ensure the lowest levelized cost of electricity (LCOE) to offer this ideal choice for commercial and industrial PV systems.



Smart Control & Monitoring

- String level monitoring
- Dynamic power export limit



Optimal Generation for Higher Return

- Full load running at 45°C
- Up to 12 MPPTs



Superb Safety & Reliability

- IP66 and C5 protection
- Type II SPD on both DC and AC sides



Friendly & Thoughtful Design

- Easy and quick configuration via Bluetooth
- Power line communication

Technical Data	GW100K-HT	GW110K-HT	GW120K-HT
Input			
Max. Input Power (kW)	150	165	180
Max. Input Voltage (V)	1100	1100	1100
MPPT Operating Voltage Range (V)	180 ~ 1000	180 ~ 1000	180 ~ 1000
Start-up Voltage (V)	200	200	200
Nominal Input Voltage (V)	600	600	600
Max. Input Current per MPPT (A)	30	30	30
Max. Short Circuit Current per MPPT (A)	45	45	45
Number of MPP Trackers	10	12	12
Number of Strings per MPPT	2	2	2
Output			
Nominal Output Power (kW)	99.99	110	120
Nominal Output Apparent Power (kVA)	99.99	110	120
Max. AC Active Power (kW)	99.99 ^{*1}	121 ^{*1}	132 ^{*1}
Max. AC Apparent Power (kVA)	99.99 ^{*1}	121 ^{*1}	132 ^{*1}
Nominal Output Voltage (V)		400, 3L / N / PE or 3L / PE ^{*2}	
Output Voltage Range (V)	320 ~ 440	320 ~ 440	320 ~ 440
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60	50 / 60
AC Grid Frequency Range (Hz)	45 ~ 55 / 55 ~ 65	45 ~ 55 / 55 ~ 65	45 ~ 55 / 55 ~ 65
Max. Output Current (A)	167.0	175.5	191.3
Power Factor		~ 1 (Adjustable from 0.8 leading to 0.8 lagging)	
Max. Total Harmonic Distortion	<3%	<3%	<3%
Efficiency			
Max. Efficiency	98.6%	98.6%	98.6%
European Efficiency	98.3%	98.3%	98.3%
Protection			
PV String Current Monitoring	Integrated	Integrated	Integrated
PV Insulation Resistance Detection	Integrated	Integrated	Integrated
Residual Current Monitoring	Integrated	Integrated	Integrated
PV Reverse Polarity Protection	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated
AC Overcurrent Protection	Integrated	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated	Integrated
AC Overvoltage Protection	Integrated	Integrated	Integrated
DC Switch	Integrated	Integrated	Integrated
DC Surge Protection	Type II	Type II	Type II
AC Surge Protection	Type II	Type II	Type II
AFCI	Optional	Optional	Optional
PID Recovery	Optional	Optional	Optional
General Data			
Operating Temperature Range (°C)	-30 ~ +60	-30 ~ +60	-30 ~ +60
Relative Humidity	0 ~ 100%	0 ~ 100%	0 ~ 100%
Max. Operating Altitude (m)	5000 (>4000 derating)	5000 (>4000 derating)	5000 (>4000 derating)
Cooling Method	Smart Fan Cooling	Smart Fan Cooling	Smart Fan Cooling
User Interface		LED, LCD (Optional), WLAN + APP	
Communication		RS485, WiFi or 4G (Optional)	
Communication Protocols		Modbus-RTU (SunSpec Compliant)	
Weight (kg)	93.5	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
Topology	Non-isolated	Non-isolated	Non-isolated
Self-consumption at Night (W)	<2	<2	<2
Ingress Protection Rating	IP66	IP66	IP66
DC Connector	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

*1: For Chile Max. AC Active Power (kW) & Max. AC Apparent Power (kVA): GW100K-HT is 100K; GW110K-HT is 110K; GW120K-HT is 120K.

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

*: Please visit GoodWe website for the latest certificates.