

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	
MPPT Operating Voltage Range (V)**		180 ~ 1000	
Start-up Voltage (V)		200	
Nominal Input Voltage (V)		600	
Max. Input Current per MPPT (A)		30	
Max. Short Circuit Current per MPPT (A)		45	
Number of MPP Trackers	10	12	12
Number of Strings per MPPT		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	
Nominal AC Grid Frequency (Hz)		50 / 60	
AC Grid Frequency Range (Hz)		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%	
Efficiency			
Max. Efficiency		98.6%	
European Efficiency		98.3%	
Protection			
PV String Current Monitoring		Integrated	
PV Insulation Resistance Detection		Integrated	
Residual Current Monitoring		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		Type II	
AC Surge Protection		Type II	
AFCI		Optional	
PID Recovery		Optional	
General Data			
Operating Temperature Range (°C)		-30 ~ +60	
Relative Humidity		0 ~ 100%	
Max. Operating Altitude (m)		5000 (>4000 derating)	
Cooling Method		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 × H × D mm)		1008 × 678 × 343	
Topology		Non-isolated	
Self-consumption at Night (W)		<2	
Ingress Protection Rating		IP66	
DC Connector		MC4 (4 ~ 6mm ²)	
AC Connector		OT / DT terminal (Max.300mm ²)	
Country of Manufacture		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.

** : Please refer to the user manual for the MPPT Voltage Range at Nominal Power.