

GT Series

100-125kW | Three Phase | 8/10 MPPTs

The GT Series string inverter is an ideal choice for commercial and industrial (C&I) applications to enhance productivity and realize high power density. Multiple MPPTs and high input current of 21A per DC string increase the overall yield with high-power PV modules. The optional PID (Potential Induced Degradation) recovery function is also supported for better module performance. Safety is always the first priority. Both the DC and AC sides are equipped with Type II surge protection to protect the inverter from lightning, providing upgraded safety and reliability for the PV system. With an unrivaled set of features, GT Series inverters were conceived to deliver increased return on investment (ROI) for C&I PV projects.



Optimal Generation for Higher Return

- 21A DC input current per string
- 8/10 MPPTs, max. Efficiency 99.0%
- 150% DC input oversizing & 110% AC output overloading
- No derating at 45°C



Smart Control & Monitoring

- String level monitoring
- Remote or onsite upgrade supported



Superb Safety & Reliability

- Type II SPD on AC & DC sides
- IP66 and optional C5 protection¹
- Optional AFCI protection¹



Friendly & Thoughtful Design

- Lightweight design and high power density for easy installation
- Easy & quick replacement of fan
- Fuse free design

Technical Data	GW100K-GT	GW110K-GT	GW125K-GT
Input			
Max. Input Voltage (V) ⁶		1100	
MPPT Operating Voltage Range (V) ⁷		180 ~ 1000	
Start-up Voltage (V)		200	
Nominal Input Voltage (V)		600	
Max. Input Current per MPPT (A)		42	
Max. Short Circuit Current per MPPT (A)		52.5	
Number of MPP Trackers	8	10	10
Number of Strings per MPPT		2	
Output			
Nominal Output Power (kW)	100 ¹	110	125
Nominal Output Apparent Power (kVA)	100 ¹	110	125
Max. AC Active Power (kW) ³	110.0 ¹	121.0 ⁴	137.5 ²
Max. AC Apparent Power (kVA) ³	110.0 ¹	121.0 ⁴	137.5 ²
Nominal Output Voltage (V)		220 / 380, 230 / 400, 3L / N / PE or 3L / PE	
Output Voltage Range (V)		304 ~ 460	
Nominal AC Grid Frequency (Hz)		50 / 60	
AC Grid Frequency Range (Hz)		45 ~ 55 / 55 ~ 65	
Max. Output Current (A) ⁵	167.1	183.4	199.4
Power Factor		~1 (Adjustable from 0.8 leading to 0.8 lagging)	
Max. Total Harmonic Distortion		<3%	
Efficiency			
Max. Efficiency	98.8%	98.8%	99.0%
European Efficiency	98.4%	98.4%	98.5%
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 (Type I + II Optional)	
AC Surge Protection		Type II	
AFCI		Optional	
Emergency Power Off		Optional	
Rapid Shutdown		Optional	
Remote Shutdown		Optional	
PID Recovery		Optional	
Reactive Power Compensation at Night		Optional	
Power Supply at Night		Optional	
General Data			
Operating Temperature Range (°C)		-30 ~ +60	
Relative Humidity		0 ~ 100%	
Max. Operating Altitude (m)		4000	
Cooling Method		Smart Fan Cooling	
User Interface		LED, LCD (Optional), WLAN + APP	
Communication		RS485, WiFi + LAN or 4G or PLC (Optional)	
Communication Protocols		Modbus-RTU (SunSpec Compliant)	
Weight (kg)	85	88	88
Dimension (W x H x D mm)		930 x 650 x 300	
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. 240mm ²)	

*1: For Australia is 99.99kW / kVA.

*2: For VDE4105 Max. AC Active Power (kW) and Max. AC Apparent Power (kVA):
GW125K-GT is 134.9.

*3: For Chile and Brazil Max. AC Active Power (kW) and Max. AC Apparent Power (kVA):
GW100K-GT is 100; GW110K-GT is 110; GW125K-GT is 125.

*4: For Australia is 110kW / kVA.

*5: For Australia Max. Output Current (A): GW100K-GT is 145, GW110K-GT is 159.5.

*6: When the input voltage ranges from 1000V to 1100V, the inverter will enter the standby state. When the input voltage returns to the MPPT operating voltage range, the inverter will resume normal operating state.

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

*: Please visit GoodWe website for the latest certificates.

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

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