

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	GW75K-GT-LV-G10	GW100K-GT	GW110K-GT	GW125K-GT
Input				
Max. Input Voltage (V)	800	1100 ^{*11}	1100 ^{*11}	1100 ^{*11}
MPPT Operating Voltage Range (V) ^{*12}	180 ~ 800	180 ~ 1000	180 ~ 1000	180 ~ 1000
Start-up Voltage (V)		200		
Nominal Input Voltage (V)	370	600V @ 380 / 400Vac, 720V @ 480Vac		
Max. Input Current per MPPT (A)		42		
Max. Short Circuit Current per MPPT (A)		52.5		
Number of MPP Trackers	8	8	10	10
Number of Strings per MPPT		2		
Output				
Nominal Output Power (kW)	75.0	100.0 ^{*1}	110.0	125.0
Nominal Output Apparent Power (kVA)	75.0	100.0 ^{*1}	110.0	125.0
Max. AC Active Power (kW) ^{*3}	75.0 ^{*6}	110.0 ^{*1}	121.0 ^{*4}	137.5 ^{*2}
Max. AC Apparent Power (kVA) ^{*3}	75.0	110.0 ^{*1}	121.0 ^{*4}	137.5 ^{*2}
Nominal Output Voltage (V)	127 / 220, 3L / N / PE or 3L / PE ^{*7}	220 / 380, 230 / 400, 277 / 480, 3L / N / PE or 3L / PE		
Output Voltage Range (V)	176 ~ 245	304 ~ 528	304 ~ 528	304 ~ 528
Nominal AC Grid Frequency (Hz)		50 / 60		
AC Grid Frequency Range (Hz)		45 ~ 55 / 55 ~ 65		
Max. Output Current (A) ^{*5}	196.9	167.1 @ 380V 158.8 @ 400V 132.3 @ 480V	183.4 @ 380V 174.7 @ 400V 145.5 @ 480V	199.4 @ 380V 198.5 @ 400V 165.4 @ 480V
Power Factor		~ 1 (Adjustable from 0.8 leading to 0.8 lagging)		
Max. Total Harmonic Distortion		<3%		
Efficiency				
Max. Efficiency	98.8%	98.8%	98.8%	99.0%
European Efficiency	98.3%	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 II (Type I + II Optional)		
AC Surge Protection		Type II		
AFCI	Optional ^{*8}	Optional ^{*9}	Optional ^{*9}	Optional ^{*9}
Emergency Power Off	-	Optional	Optional	Optional
Rapid Shutdown		Optional		
Remote Shutdown	Integrated	Optional	Optional	Optional
PID Recovery		Optional		
Reactive Power Compensation at Night	-	Optional	Optional	Optional
Power Supply at Night	Optional	Optional ^{*10}	Optional ^{*10}	Optional ^{*10}
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	RS485, WiFi + LAN or 4G		
Communication Protocols		Modbus-RTU (SunSpec Compliant)		
Weight (kg)	88	85	88	88
Dimension (W × H × D mm)		930 × 650 × 300		
Topology		Non-isolated		
Self-consumption at Night (W)	<1	<2	<2	<2
Ingress Protection Rating		IP66		
DC Connector		MC4 (4 ~ 6mm²)		
AC Connector		OT / DT terminal (Max. 240mm²)		

*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, Brazil and Sri Lanka 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@400V, GW110K-GT is 159.5@400V.

*6: For Colombia Max. AC Active Power (kW): GW75K-GT-LV-G10 is 70.9@208V.

*7: For Colombia Nominal Output Voltage (V): GW75K-GT-LV-G10 is 120 / 208, 3L / N / PE or 3L / PE.

*8: For Brazil, Colombia and Mexico is Integrated.

*9: For Australia, GW100K-GT/GW110K-GT/GW125K-GT AFCI: Integrated.

*10: For Australia, Brazil and Mexico, GW100K-GT/GW110K-GT/GW125K-GT Power Supply at Night: Integrated.

*11: 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.

*12: 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.