GOODWE

GT Series

100-125kW I Three Phase I 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

Superb Safety & Reliability

- Type II SPD on AC & DC sides
- IP66 and optional C5 protection[1]
- Optional AFCI protection[1]

Smart Control & Monitoring

- String level monitoring
- Remote or onsite upgrade supported

Friendly & Thought Design

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

1: Optional functions or devices are purchased separately.

GOODWE

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	600	600	600
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	100[*1]	110	125
Nominal Output Apparent Power (kVA)	75	100[*1]	110	125
Max. AC Active Power (kW)[*3]	75[*6]	110.0[*1]	121.0[*4]	137.5[*2]
Max. AC Apparent Power (kVA)[*3]	75	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, 3L / N / PE or 3L / PE		
Output Voltage Range (V)	176 ~ 245	304 ~ 460	304 ~ 460	304 ~ 460
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	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%	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 or PLC (Optional)		
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 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: 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 and Colombia is Integrated.
*9: For Australia, GW100K-GT/GW110K-GT/GW125K-GT AFCI: Integrated.
*10: For Australia, 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.