

# Technical Data

MODEL

**GT1000TL**

<b>PV String Input Data</b>	
Max. PV Input Power (W)	210-700(2 Pieces)
Max. PV Input Voltage (V)	60
Start-up Voltage (V)	20
MPPT Voltage Range (V)	25-55
Rated PV Input Voltage (V)	42.5
Max. Operating PV Input Current (A)	13+13
Max. Input Short Circuit Current (A)	19.5+19.5
No. of MPP Trackers/ No. of Strings MPP Tracker	2/1
<b>AC Output Side</b>	
Rated AC Output Active Power (W)	1000
Max. AC Output Apparent Power (VA)	1000
Rated AC Output Current (A)	4.6/4.4
Max. AC Output Current (A)	4.6/4.4
Rated Output Voltage/Range (V)	220/230 0.85Un-1.1Un
Grid Connection Form	L/N/PE
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65
Max. Unit per Branch	5
Power Factor Adjustment Range	0.9 leading-0.9 lagging
Total Current Harmonic Distortion THDi	<3%
DC Injection Current	<0.5%In
<b>Efficiency</b>	
Max. Efficiency	96.5%
Euro Efficiency	96.0%
MPPT Efficiency	>99%
<b>Equipment Protection</b>	
DC Polarity Reverse Connection Protection	Yes
AC Output Overcurrent Protection	Yes
AC Output Overvoltage Protection	Yes
AC Output Short Circuit Protection	Yes
Thermal Protection	Yes
DC Terminal Insulation Impedance Monitoring	Yes
Power Network Monitoring	Yes
Island Protection Monitoring	Yes
Earth Fault Detection	Yes
Overvoltage Load Drop Protection	Yes
<b>Interface</b>	
Communication Interface	Wi-Fi
<b>General Data</b>	
Operating Temperature Range (°C)	-40 to +65°C, >45°C Derating
Permissible Ambient Humidity	0-100%
Permissible Altitude (m)	2000m
Noise (dB)	≤25
Ingress Protection(IP) Rating	IP 67
Inverter Topology	Isolated
Over Voltage Category	OVC II(DC), OVC III(AC)
Cabinet Size (WxHxD mm)	280.5×190×40 (Excluding Connectors and Brackets)
Weight (kg)	3
Warranty	10 Years
Type of Cooling	Natural Cooling
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, G99, VDE-AR-N 4105
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2