

# THREE PHASE COMMERCIAL & INDUSTRIAL SERIES ON-GRID INVERTER DATASHEET

**GT 40K-3P | GT 45K-3P  
GT 50K-3P**



10 Years Warranty



Easy to Service



Suited for Outdoor



String intelligent monitoring  
(optional)



Zero Export & VSG Application



Max. 4 MPP trackers, Max. efficiency  
up to 98.7%



Wide Output Voltage Range



Anti-PID function (Optional)



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# Technical Data

MODEL	GT 40K-3P	GT 45K-3P	GT 50K-3P
<b>PV String Input Data</b>			
Max. PV Input Power (kW)	52	58.5	65
Max. PV Input Voltage (V)	1100		
Start-up Voltage (V)	250		
MPPT Voltage Range (V)	200-1000		
Rated PV Input Voltage (V)	600		
Max. Operating PV Input Current (A)	40+40+40		40+40+40+40
Max. Input Short Circuit Current (A)	60+60+60		60+60+60+60
No. of MPP Trackers/ No. of Strings MPP Tracker	3/3+3+3		4/3+3+3+3
<b>AC Output Side</b>			
Rated AC Output Active Power (kW)	40	45	50
Max. AC Output Apparent Power (kVA)	44	49.5	55
Rated AC Output Current (A)	60.6/58	68.2/65.2	75.8/72.5
Max. AC Output Current (A)	66.7/63.8	75/71.7	83.3/79.7
Rated Output Voltage/Range (V)	220/380V, 230/400V 0.85Un-1.1Un		
Grid Connection Form	3L/N/PE		
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65		
Power Factor Adjustment Range	0.8 leading to 0.8 lagging		
Total Current Harmonic Distortion THDi	<3%		
DC Injection Current	<0.5%In		
<b>Efficiency</b>			
Max. Efficiency	98.7%		
Euro Efficiency	98.1%		
MPPT Efficiency	>99%		
<b>Equipment Protection</b>			
DC Reverse Polarity Protection	Yes		
AC Output Overcurrent Protection	Yes		
AC Output Overvoltage Protection	Yes		
AC Output Short Circuit Protection	Yes		
Thermal Protection	Yes		
Insulation Impedance Detection	Yes		
DC Component Monitoring	Yes		
Arc Fault Circuit Interrupter (AFCI)	Optional		
Anti-islanding Protection	Yes		
Residual Current Detection	Yes		
Surge Protection Level	Type II (DC), Type II (AC)		
DC Switch	Yes		
<b>Interface</b>			
Communication Interface	RS485/RS232		
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN (optional)		
<b>General Data</b>			
Operating Temperature Range (°C)	-25 to +60°C, >45°C Derating		
Permissible Ambient Humidity	0-100%		
Permissible Altitude (m)	4000m		
Noise (dB)	<65		
Ingress Protection (IP) Rating	IP 65		
Inverter Topology	Non-Isolated		
Over Voltage Category	OVC II (DC), OVC III (AC)		
Cabinet Size (WxHxD mm)	434x570x243 (Excluding Connectors and Brackets)		
Weight (kg)	39		
Type of Cooling	Intelligent Air Cooling		
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105		
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		

\*Due to continuous product innovation, dimensions and weight may differ from the datasheet.