

ON-GRID INVERTERS

THREE PHASE (18kW TO 25kW)



TECHNICAL PARAMETERS	GSI-18K-P3-GT		GSI-20K-P3-GT		GSI-25K-P3-GT	
Input Side						
Max. DC Input Power(kW)	23.4		26		32.5	
Max. DC Input Voltage(V)			1100			
Start-up DC Input Voltage(V)			250			
MPPT Operating Range(V)			200~1000			
Max. DC Input Current(A)			26+26			
Max. Short Circuit Current(A)			39+39			
No. of MPPT Trackers			2			
No. of Strings per MPPT Tracker			2+2			
Output Side						
Rated Output Power(kW)	18		20		25	
Max. Active Power(kW)	19.8		22		27.5	
Rated Output Voltage Range(V)			3L/N/PE, 220/380V, 230/400V, 0.85Un~1.1Un			
Grid Frequency Range(Hz)			50 ± 5Hz , 60 ± 5 Hz			
Operating Phase			Three Phase			
Rated AC Grid Output Current(A)	26.1		29		36.2	
Max. AC Output Current(A)	30		33.3		41.7	
Output Power Factor			0.8 leading to 0.8 lagging			
Total Harmonics Current Distortion(THDi)			<3%			
DC Injection Current(mA)			<0.5%			
Efficiency						
Max. Efficiency			98.6%			
Euro Efficiency			97.8%			
MPPT Efficiency			>99%			
Protection						
DC Reverse Polarity Protection			YES			
AC Short Circuit Protection			YES			
AC Output Over Current Protection			YES			
Output Over Voltage Protection			YES			
Insulation Resistance Protection			YES			
Ground Fault Monitoring			YES			
Anti-islanding Protection			YES			
Temperature Protection			YES			
Integrated DC Switch			YES			
Remote software upload			YES			
Remote change of operating parameters			YES			
Surge protection			DC Type II/AC Type II			
General Data						
Dimensions(WxHxD)mm			362W×527H×220D(Excluding Connectors and Brackets)			
Weight(kg)			20			
Topology			Transformerless			
Internal Consumption			<1W(Night)			
Running Temperature			-25~65 °C, >45 °C derating			
Operating Surroundings Humidity			0~100%			
Ingress Protection			IP65			
Noise Emission(Typical)			≤40dB			
Cooling Concept			Smart Cooling			
Max. Operating Altitude Without Derating			4000m			
Warranty			10 years			
Grid Connection Standards			IEC 61727, IEC 62116			
Safety Standards			IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2			
Features						
Display			LCD 1602			
Interface			RS485/WiFi/LAN/Local Monitoring			