

ON-GRID INVERTERS

THREE PHASE (90kW TO 110kW)



TECHNICAL PARAMETERS	GSI-90K-P3-GT		GSI-100K-P3-GT		GSI-110K-P3-GT	
Input Side						
Max. DC Input Power(kW)	135		150		150	
Max. DC Input Voltage(V)			1100			
Start-up DC Input Voltage(V)			250			
MPPT Operating Range(V)			200-1000			
Max. DC Input Current(A)			40+40+40+40+40+40			
Max. Short Circuit Current(A)			60+60+60+60+60+60			
No. of MPPT Trackers			6			
No. of Strings per MPPT Tracker			4+4+4+4+4+4			
Output Side						
Rated Output Power(kW)	90		100		110	
Max. Active Power(kW)	99		110		121	
Rated Output Voltage Range(V)			3L/N/PE, 220/380V, 230/400V, 0.85Un-1.1Un			
Grid Frequency Range(Hz)			50 ± 5Hz, 60 ± 5Hz			
Operating Phase			Three Phase			
Rated AC Grid Output Current(A)	130.4		144.7		159.4	
Max. AC Output Current(A)	150		166.7		183.3	
Output Power Factor			0.8 leading to 0.8 lagging			
Total Harmonics Current Distortion(THDi)			< 3%			
DC Injection Current(mA)			< 0.5%			
Protection						
DC Reverse Polarity Protection			Yes			
AC Short Circuit Protection			Yes			
AC Output Over Current Protection			Yes			
Output Over Voltage Protection			Yes			
Ground Fault Monitoring			Yes			
Insulation Resistance Protection			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			
Efficiency						
Max. Efficiency			98.7%			
Euro Efficiency			98.3%			
MPPT Efficiency			>99%			
General Data						
Dimensions(WxHxD)mm			826W×516H×312.7D(Excluding Connectors and Brackets)			
Weight(kg)			81			
Topology			Transformerless			
Running Temperature			-25 to +65°C, >45°C derating			
Ingress Protection			IP65			
Noise Emission(Typical)			≤55dB			
Cooling Concept			Smart cooling			
Max. Operating Altitude Without Derating			4000m			
Warranty			10 years			
Operating Surroundings Humidity			0-100%			
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 240×160			
Interface			RS485/WiFi/LAN/Local Monitoring			