

ON-GRID INVERTERS

THREE PHASE (5kW TO 12kW)



TECHNICAL PARAMETERS	GSI-5K-P3-GT	GSI-6K-P3-GT	GSI-7K-P3-GT	GSI-8K-P3-GT	GSI-10K-P3-GT	GSI-12K-P3-GT
Input Side						
Max. DC Input Power(kW)	6.5	7.8	9.1	10.4	13	15.6
Max. DC Input Voltage(V)	1100					
Start-up DC Input Voltage(V)	140					250
MPPT Operating Range(V)	120~1000					200~1000
Max. DC Input Current(A)	20+20					
Max. Short Circuit Current(A)	30+30					
No. of MPPT Trackers	2					
No. of Strings per MPPT Tracker	1+1					
Output Side						
Rated Output Power(kW)	5	6	7	8	10	12
Max. Active Power(kW)	5.5	6.6	7.7	8.8	11	13.2
Rated Output Voltage Range(V)	3L/N/PE, 220/380V, 230/400V, 0.85Un~1.1Un					
Grid Frequency Range	50 ± 3Hz, 60 ± 3Hz					
Operating Phase	Three Phase					
Rated AC Grid Output Current(A)	7.2	8.7	10.1	11.6	14.5	17.4
Max. AC Output Current(A)	8	9.6	11.2	12.8	15.9	19.1
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	98.3%					
Euro Efficiency	97.5%					
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	386W×660H×250D(Excluding connectors and brackets)					
Weight(kg)	11					
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)	<20dB					
Cooling Concept	Natural cooling					
Max. Operating Altitude Without Derating	2000m					
Warranty	10 years					
Grid Connection Standards	IEC 62116, IEC 61727					
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					