

ON-GRID INVERTERS

SINGLE PHASE (5kW TO 6kW)



TECHNICAL PARAMETERS	GSI-5K-P1-GT	GSI-5.2K-P1-GT	GSI-5.5K-P1-GT	GSI-6K-P1-GT
Input Side				
Max. DC Input Power(kW)	6	6.2	6.6	7.2
Max. DC Input Voltage(V)			600	
Start-up DC Input Voltage(V)			80	
MPPT Operating Range(V)		70-550		
Max. DC Input Current(A)		20		
Max. Short Circuit Current(A)		30		
No. of MPPT Tracker		1		
No. of Strings per MPPT Tracker		2		
Output Side				
Rated Output Power(kW)	5	5.2	5.5	6
Max. Active Power(kW)	5.5	5.7	6.05	6.6
Rated Output Voltage Range(V)			L/N/PE, 220/230	
Grid Frequency Range(Hz)			50 ± 5Hz, 60 ± 5Hz	
Operating Phase			Single phase	
Rated AC Grid Output Current(A)	21.74	22.6	23.91	26.1
Max. AC Output Current(A)	23.91	24.7	26.30	28.70
Output Power Factor			0.8 leading to 0.8 lagging	
Total Harmonics Current Distortion(THDi)			< 3%	
DC Injection(mA)			< 0.5%	
Efficiency				
Max. Efficiency			97.50	
Euro Efficiency			97.30	
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		305W×280H×180D(Excluding connectors and brackets)		
Weight(kg)		7.7		
Topology		Transformerless		
Internal Consumption		<1W(Night)		
Running Temperature		-25 to +60 °C, >45 °C derating		
Operating Surroundings Humidity		0-100%		
Ingress Protection		IP65		
Noise Emission(Typical)		≤35dB		
Cooling Concept		Natural cooling		
Max. Operating Altitude Without Derating		2000m		
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		