

ON-GRID INVERTERS

THREE PHASE (60kW TO 80kW)



TECHNICAL PARAMETERS	GSI-60K-P3-GT	GSI-70K-P3-GT	GSI-75K-P3-GT	GSI-80K-P3-GT
Input Side				
Max. DC Input Power(kW)	78	91	97.5	104
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			
Max. Short Circuit Current(A)	60+60+60+60			
No. of MPPT Trackers	4			
No. of Strings per MPPT Tracker	4+4+4+4			
Output Side				
Rated Output Power(kW)	60	70	75	80
Max. Active Power(kW)	66	77	82.5	88
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)	87	101.5	108.7	116
Max. AC Output Current(A)	100	111	119	127
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			
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			
Efficiency				
Max. Efficiency	98.7%			
Euro Efficiency	98.3%			
MPPT Efficiency	>99%			
General Data				
Dimensions(WxHxD)mm	647.5W×537H×303.5D(Excluding connectors and brackets)			
Weight(kg)	73.7			
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	2000m			
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			