

ON-GRID INVERTERS

THREE PHASE (120kW TO 136kW)



TECHNICAL PARAMETERS	GSI-120K-P3-GT	GSI-125K-P3-GT	GSI-130K-P3-GT	GSI-135K-P3-GT	GSI-136K-P3-GT
Input Side					
Max. DC Input Power(kW)	180	187.5	195	202.5	204
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+40				
Max. Short Circuit Current(A)	60+60+60+60+60+60+60+60				
No. of MPPT Trackers	8				
No. of Strings per MPPT Tracker	4+4+4+4+4+4+4+4				
Output Side					
Rated Output Power(kW)	120	125	130	135	136
Max. Active Power(kW)	132	137	143	148	149
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)	174	181.2	188.5	195	197
Max. AC Output Current(A)	200	195	204.6	205	206
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 Impedance 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	1006W×516H×325.5D(Excluding connectors and brackets)				
Weight(kg)	103				
Topology	Transformerless				
Running Temperature	-25 to +60°C, >45°C derating				
Ingress Protection	IP65				
Noise Emission(Typical)	≤65dB				
Cooling Concept	Intelligent Air 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				