

HYBRID (BI-DIRECTION) SOLAR INVERTER

SG-5/6/8/10/12/15/20/25K-SG01HP3-EU-AM2

(HIGH VOLTAGE VERSIONS)



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Technical Data

SG-3K-SGDTHPS-EU-AM2 SG-6K-SGDTHPS-EU-AM2 SG-10K-SGDTHPS-EU-AM2 SG-12K-SGDTHPS-EU-AM2 SG-15K-SGDTHPS-EU-AM2 SG-20K-SGDTHPS-EU-AM2 SG-25K-SGDTHPS-EU-AM2								
Battery Input Data								
Battery Type	Lithium-Ion							
Battery Voltage Range(V)	160-700							
Max.Charging Current(A)	30	30			37			50
Max.Discharging Current(A)	30		30		37			50
Charging Strategy for Li-Ion Battery	Self-adaptation to BMS							
Number of battery input	1							
PV Input Input Data								
Max DC Input Power (W)	6500		7800		10400		13000	
Max DC Input Voltage (V)	1500							
Start-up Voltage (V)	180							
MPPT Voltage Range (V)	150-850							
Rated DC Input Voltage(V)	600							
Max Input Short-Circuit Current (A)			30+30				39+39	
Max Operating PV Input Current (A)			20+20				26+26	
No.of MPP Trackers/Neut Stopping Per MPP Tracker			2/1+1				2/2+2	
AC Input/Output Data								
Rated AC Input/Output Active Power (W)	5000		6000		8000		10000	
Max AC Input/Output Apparent Power (VA)	5500		6600		8800		11000	
Peak Power (off-grid) (W)	1.5 times of rated power,30s							
Rated AC Input/Output Current (A)	7.6/7.3		9.1/8.7		12.2/11.6		15.2/14.5	
Max AC Input/Output Current (A)	8.8/8		10.6/9.6		13.4/12.8		16.7/16	
Max. Three-phase Unbalanced Output Current (A)	13		13		18		22	
Max Continuous AC Passthrough (grid-to-load) (A)			40				80	
Rated Input/Output Voltage(Range)(V)	220/380V, 230/400V 0.85Un-1.1Un							
Grid Connection Form	3L+N+PE							
Rated Input/Output Grid Frequency(Range)	50Hz/60Hz-55Hz-60Hz/55Hz-65Hz							
Power Factor Adjustment Range	0.8 leading-0.8 lagging							
Total Current Harmonic Distortion THDI	< 3% (of nominal power)							
DC Injection Current	<±5mA							
Efficiency								
Max Efficiency	97.50%							
Euro Efficiency	97.00%							
MPPPT Efficiency	> 99%							
Equipment Protection								
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection AC Output Overvoltage Protection, AC Output Short Circuit Protection, Thermal Protection DC Terminal Insulation Impedance Monitoring, DC Component Monitoring, Ground Fault Current Monitoring Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch Overvoltage Load Drop Protection, Residual Current (RCD) Detection, Surge protection level							
Surge Protection Level	TYPE II/CLASS I/IEC							
Interface								
Communication Interface	WiFi/SMB/L CAN							
General Data								
Operating Temperature Range	-40 to +60°C, >60°C Derating							
Permissible Ambient Humidity	0-100%							
Permissible Altitude	2000m							
Noise	≤ 55 dB(A)							
Ingress Protection(IP) Rating	IP 65							
Inverter Topology	Non Isolated							
Over Voltage Category	CVC IEC/CVC IEC							
Cabinet size (W*D*H) [mm]	400*630*237 (Excluding connectors and brackets)							
Weight[kg]	30.5							
Warranty	Standard 5 years, extended warranty							
Type Of Cooling	natural cooling		Intelligent air cooling					
Grid Regulation	IEC 61727,IEC 6211,CEI 0-21,EN 50549, NRS 05240 140UNE 217002,DNE-Rizelstone R25,GPR,VDE AR-N 4105							
Safety EMC/Standard	CE/EN 61000-6-1/2/3/A, CE/EN 62109-1, CE/EN 62109-2							