

Model		GEO-H-14-20LV				
<b>Battery Input Data</b>						
Battery Type	Lead-acid or Lithium-ion					
Battery Voltage Range (V)	40-60					
Max. Charging Current (A)	260	280	300	330	350	
Max. Discharging Current (A)	260	280	300	330	350	
Charging Strategy for Li-ion Battery	Self-adaption to BMS					
Number of Battery Input	1					
<b>PV String Input Data</b>						
Max. PV Access Power (W)	28000	30000	32000	36000	40000	
Max. PV Input Power (W)	21000	22500	24000	27000	30000	
Max. PV Input Voltage (V)	800					
<b>Start-up Voltage (V)</b>	160					
MPPT Voltage Range (V)	160-650					
Rated PV Input Voltage (V)	550					
Max. Operating PV Input Current (A)	36+20					
Max. Input Short-Circuit Current (A)	54+30					
No. of MPP Trackers/ No. of Strings MPP Tracker	2/2+1					
<b>AC Input/Output Data</b>						
Rated AC Input/Output Active Power (W)	14000	15000	16000	18000	20000	
Max. AC Input/Output Apparent Power (VA)	15400	16500	17600	19800	22000	
Rated AC Input/Output Current (A)	21.3/20.3	22.8/21.8	24.3/23.2	27.3/26.1	30.4/29	
Max. AC Input/Output Current (A)	21.3/20.3	22.8/21.8	24.3/23.2	27.3/26.1	30.4/29	
Max. Continuous AC Passthrough (grid to load) (A)	70					
Peak Power (off-grid) (W)	2 times of rated power, 10s					
Power Factor Adjustment Range	0.8 leading to 0.8 lagging					
Rated Input/Output Voltage/Range (V)	220/380V, 230/400V 0.85Un-1.1Un					
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65					
Grid Connection Form	3L+N+PE					
Total Current Harmonic Distortion THDi	<3% (of nominal power)					
DC Injection Current	<0.5% In					
<b>Efficiency</b>						
Max. Efficiency	97.6%					
Euro Efficiency	97.0%					
MPPT Efficiency	>99%					
<b>Equipment Protection</b>						
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (optional), Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch, DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection, Surge protection level					
Surge Protection Level	TYPE II(DC), TYPE II(AC)					
<b>Interface</b>						
Communication Interface	RS485/RS232/CAN					
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)					
<b>General Data</b>						
Operating Temperature Range (°C)	-40 to +60°C, >45°C					
Permissible Ambient Humidity	Derating					
Permissible Altitude	0-100%					
Noise (dB)	3000m					
Ingress Protection(IP) Rating	IP 65					
Inverter Topology	Non-Isolated					
Over Voltage Category	OVC II(DC), OVC III(AC)					
Cabinet Size (WxHxD mm)	456×750×268.5 (Excluding Connectors and Brackets)					
Weight (kg)	50.6					
Type of Cooling	Intelligent Air Cooling					
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy					
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105					
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2					