



HYBRID INVERTER
GSL-H-5K-US
GSL-H-7.6K-US



Internal SPD



2 MPPT



RS485/CAN



Max. Efficiency
97.6%



Support Multiple
Parallel



Six Time of
Use Setting



Support Generator
Connection



AC Coupled



High Surge
Endurance



High Power
Factor



Zero Export



IP65
Ingress Protection



Battery Input Data		GSL-H-5K-US	GSL-H-7.6K-US
Battery Type	Lead-acid or Li-Ion		
Battery Voltage Range (V)	40~60V		
Max.Charging Current (A)	120A	190A	
Max.Discharging Current (A)	120A	190A	
Charging Curve	3 Stages/Equalization	3 Stages/Equalization	
External Temperature Sensor	Optional	Optional	
Charging Strategy for Li-Ion Battery	Self-adaption to BMS	Self-adaption to BMS	
PV String Input Data			
Max. DC Input Power	6500W	9880W	
PV Input Voltage (V)	370V (100V~500V)	370V (100V~500V)	
MPPT Range (V)	125V-425V	125V-425V	
Start-up Voltage (V)	125V	125V	
PV Input Current (A)	11A+11A	18A+18A	
No.of MPPT Trackers		2	
No.of Strings Per MPPT Trackers	1+1	2+2	
AC Output Data			
Rated AC Output and UPS Power (W)	5000W	7600W	
Max AC Output Power (W)	5500W	8360W	
Peak Power (off grid)	2 times of rated power,10S		
AC Output Rated Current (A)	20.8A	31.7A/33A	
Max.AC Current (A)	24A	36.4A/38A	
Max Continuous AC Passthrough (A)	35A	50A	
Output Frequency and Voltage	50/60Hz; 120Vac&240Vac (split phase),208Vac (2/3 phase)		
Grid Type	Split phase,2/3 phase		
Current Harmonic Distortion	THD < 3% (Linear load < 1.5%)		
Efficiency			
Max.Efficiency	97.60%		
Euro Efficiency	97.00%		
MPPT Efficiency	99.90%		
Protection			
PV Arc Fault Detection	Integrated (Except European Type)		
PV Input Lightning Protection	Integrated		
Anti-islanding Protection	Integrated		
PV String Input Reverse Polarity Protection	Integrated		
Insulation Resistor Detection	Integrated		
Residual Current Monitoring Unit	Integrated		
Output Over Current Protection	Integrated		
Output Shorted Protection	Integrated		
Output Over Voltage Protection	Integrated		
Certifications and Standards			
Grid Regulation	UL1741,IEEE1547,RULE21,VDE0126,AS4777,NRS2017,G98,G99		
Safety Regulation	IEC62109-1,IEC62109-2		
EMC	EN61000-6-1,EN61000-6-3,FCC 15 class B		
General Data			
Operating Temperature Range (°C)	-25~60 °C , >45 °C Derating		
Cooling	Fan		
Noise (dB)	< 30		
Communication with BMS	RS485;CAN		
Weight (kg)	42KG		
Size (Length*Width*Height mm)	680×420×233mm		
Protection Degree	IP65		
Installation Style	Wall-mounted		
Warranty	5 years		