



HYBRID INVERTER

GSL-H-12.0K-US



Max. Efficiency
97.6%



High Power
Factor



2 MPPT



RS485/CAN



Six Time of
Use Setting



Internal SPD



Zero Export



High Surge
Endurance



IP65 Ingress
Protection



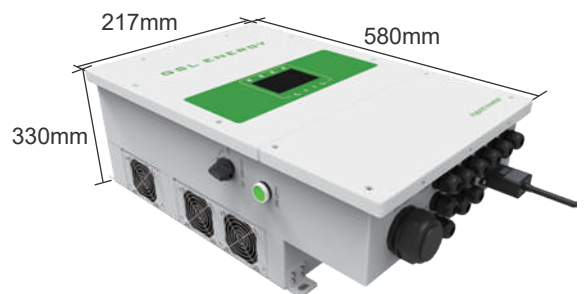
AC Coupled



Support Generator
Connection



Support Multiple
Parallel



Battery Input Data

GSL-H-12.0K-US

Battery Type	Lead-acid or Li-Ion
Battery Voltage Range (V)	41-59V
Max.Charging Current (A)	190A
Max.Discharging Current (A)	190A
Charging Curve	3 Stages/Equalization
External Temperature Sensor	Optional
Charging Strategy for Li-Ion Battery	Self-adaption to BMS

PV String Input Data

Max. DC Input Power	12400W
PV Input Voltage (V)	370V (100V-500V)
MPPT Range (V)	125V-425V
Start-up Voltage (V)	125V
PV Input Current (A)	20A+20A
No.of MPPT Trackers	2
No.of Strings Per MPPT Trackers	2+2

AC Output Data

Rated AC Output and UPS Power (W)	9000W
Max AC Output Power (W)	9600W
Peak Power (off grid)	2 times of rated power,10S
AC Output Rated Current (A)	37.5A
Max.AC Current (A)	40A
Max Continuous AC Passthrough (A)	50A
Output Frequency and Voltage	50/60Hz; 110Vac/220Vac
Grid Type	Split 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