

**Energy Storage** | **GSL Hybrid Inverter ( UL Standard )**



**Flexible**

- The model covers 7.6kw-11.4kw, with unified appearance design.
- Wide battery input range, compatible with a variety of lithium batteries and lead-acid.

**State-of-art Design**

- Fashion apperance, convenient wiring.
- IP65 design, natural cooling, external fan free design, low noise , improve the whole machine life.

**Reliable**

- Battery reverse connect protection, the charge and discharge are controlled by intelligent software to improve the battery life.
- Input and output lightning protection, PV arcing detection.
- Discharge at full power and disconnect the charger automatically when the battery is ful.
- Off grid full power output, transient 1.5 times overload, soft start mode, with air conditioning, water pump and other loads.
- Insulation detection, leakage battery, ground fault detection, island protection to prevent electric shock.

**Advanced**

- Maximum efficiency up to 98.2%.
- 4 independent MPPT design, making full use of light energy in different directions.
- Distributed virtual power station management node.
- Remote monitoring of computers and mobile phones.

**Application Scenario**



Villa



Communication base station



Nomadic area



Farm

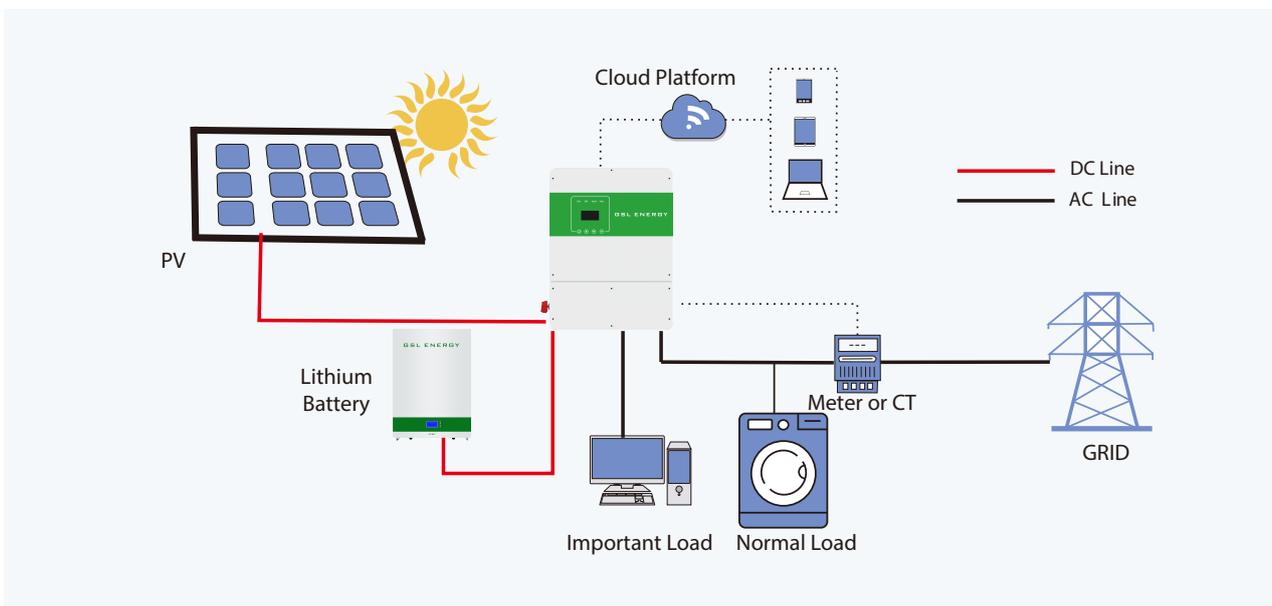


Household



Field power supply

**Product Topology**



Model	GSL-H-8KHV-US	GSL-H-12KHV-US
<b>PV Input</b>		
PV Input Power	10.4KW	15.6KW
MPPT Number	4	
Start-up Voltage	120	
MPPT Voltage Range	125V-500V	
Max PV Input Voltage	500V	
Single MPPT Input Current	12A	
<b>Battery</b>		
Max Charging/Discharging Current	80A/80A	
Battery Voltage Range	85V-400V	
Battery Capacity Range	6.6 to 66 kWh	
Battery Type	Lithium,Lead-acid	
Communication	CAN,RS485	
<b>Back-up AC Output</b>		
Rated Backup Output Power	8KVA	12KVA
Max Backup Output Power	10KVA 60S . 12KVA 1S	15KVA 60S . 18KVA 1S
Backup AC Output Voltage	110-120/220-240 split phase	
AC Frequency	50/60Hz	
Output THDI	< 2%	
<b>On Grid AC Output</b>		
Rate AC Output Power	± 120/240V 8KVA	± 120/240V 12KVA
AC Output Voltage	211~264V@240V	
AC Output Frenquecny	50/60Hz ( 45 to 54.9Hz / 55 to 65Hz)	
Power Factor	0.8leading···0.8lagging	
Max Output Current	36.4A	50A
AC Reverse Charging	Yes	
THDI	< 2%	
<b>Efficiency</b>		
Max Efficiency	>=98.2%	
CEC Efficiency	>=97.2%	
<b>Protection</b>		
Complete Protection	Ground protection;AFCI protection;islanding protection;DC disconnect detection;Battery Reverse protection;Battery charge and discharge protection;insulation testing;GFCI;DC&AC anti-thunder;Overvoltage and under-voltage protections;AC&DC over-current protection;AC short-circuit current protection;overheating protection	
<b>General Data</b>		
Output Conduit Size	25.4mm	
PV Input Conduit Size	25.4mm	
Battery Input Conduit Size	34.5mm	
Temperature Range	-25 ~ +60°C	
Environment Humidity	0-95%	
Altitude	0-4000M ( Derating when over 2000m)	
IP Grade	IP65	
Weight	30kg	
Dimension (W x H x D)	530x 660 x 200mm	
Cooling	Natural cooling	
Noise Emission(dB)	<25dB	<29dB
Display	LCD	
Communication	Modbus, RS485 , WIFI,4G	
Self-consumption At Night	< 2.5 W (with battery enabling < 5 W)	
No Transformer	YES	
Safety	UL1741SA all options, UL1699B, CSA 22.2	
EMC	FCC Part 15 ClassB	