

Energy Storage **GSL 8K Hybrid Inverter (48V DC)**



Flexible

- Wide input voltage range.
- Compatible with lead-acid or lithium-ion batteries or other battery.

State-of-art Design

- Fashion appearance, light weight, smart operation.
- Natural cooling, low noise.
- IP65 , wall mounted design, saving space.
- Touch screen LCD.

Reliable

- Compatible anti counter flow function.
- Battery reverse connect protection.

Advanced

- Intelligent energy management system for home.
- Power dispatching and demand side response management.
- Distributed virtual power station management.

Application Scenario



Villa



Communication base station



Nomadic area



Farm

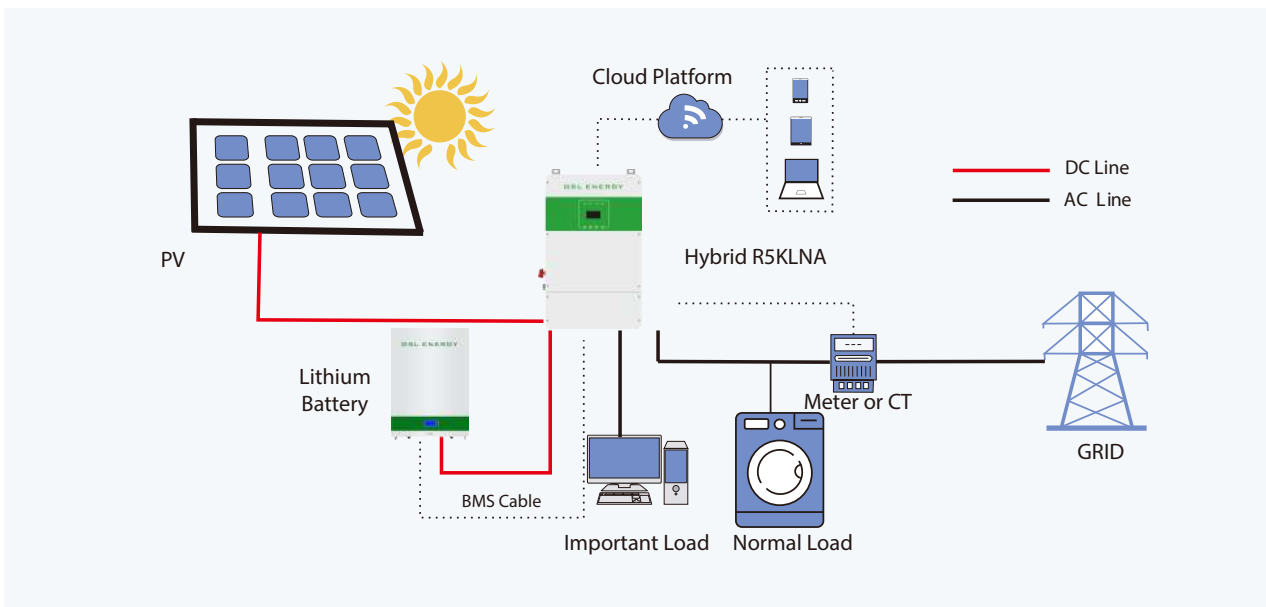


Household



Field power supply

Product Topology



Model	GSL-H-8KLV-US		
PV Input			
PV input power	12KW		
MPPT number	4		
PV voltage range	350V/85V - 500V		
MPPT voltage range	120V-500V		
Single MPPT input current	12A		
Battery			
Max charging/discharging current	190A/190A		
Battery Voltage range	48V		
Battery Type	Lithium-ion,Lead-acid		
Back-up AC Output			
Rated Backup output power	8KVA		
Max Backup output power	10kVA 60S. 12KVA 1S		
Backup AC output Voltage	120/240Vac(split phase), 208Vac(2/3 phase),230Vac(single phase)		
AC Frequency	50/60Hz		
Output THDI	< 2%		
On Grid AC Output			
Rate AC Output Power	8KVA		
AC Output Voltage	120/240Vac(split phase), 208Vac(2/3 phase),230Vac(single phase)		
AC Output Frequency	50/60Hz		
Grid Type	Split phase 、 2/3 phase 、 Single Phase		
Max Output Current	38.3A		
AC reverse charging	Yes		
PF	0.8leading...0.8lagging		
Output THDI	< 2%		
Efficiency			
Max Efficiency	>=98.2%		
CEC Efficiency	>=97.2%		
Protection			
Ground protection	YES		
AFCl protection	YES		
islanding protection	YES		
DC disconnect detection	YES		
Battery Reverse protection	YES		
Battery charge and discharge protection	YES		
insulation testing	YES		
GFCI	YES		
DC anti-thunder	YES		
AC anti-thunder	YES		
Input overvoltage&under-voltage protections	YES		
Output overvoltage&under-voltage protections	YES		
AC&DC over-current protection	YES		
AC short-circuit current protection	YES		
overheating protection	YES		
General Data			
Operation Temperature range	-25~ +60°C		
environment humidity	0-95%		
Altitude	0-4000M (over 2000M derating)		
IP rank	IP65/NEMA 3R		
Weight	45kg		
Dimension(W x H x D)	430x710x210mm		
Cooling	Fan Cooling		
Noise(dB)	<29dB		
Display	LCD		
Communication	Modbus, RS485 , WIFI,4G		
Safety	EN61000-6-1, EN61000-6-3, FCC 15 class B		
EMC	IEC62109-1, IEC62109-2		
On Grid	UL1741,IEEE1547,RULE21,VDE 0126,AS4777,NRS2017,G98,G99		