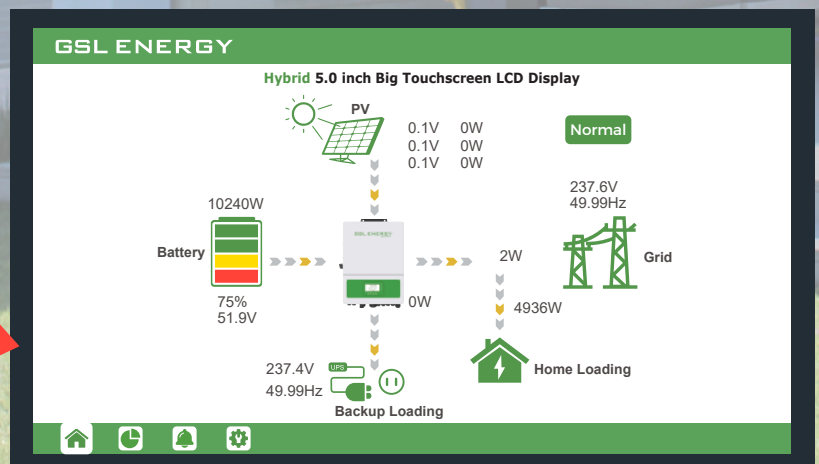
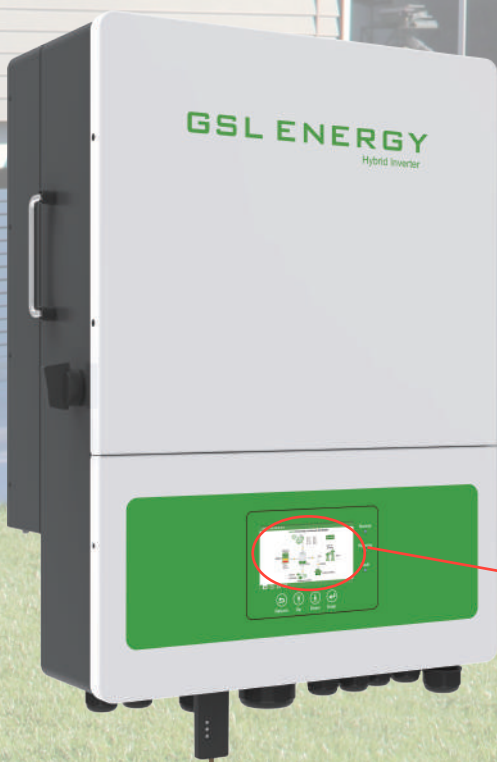


# GSL ENERGY

## POWER Inverters GSL-H-12KLV-US

**Power your home,  
Enjoy green life**



[www.gsl-energy.com](http://www.gsl-energy.com)

# GSL ENERGY

+0755-84515360

sales@gsl-energy.com

www.gsl-energy.com

## Hybrid Series High Performance Inverter

GSL ENERGY has gone Above and Beyond to bring you the best technologies available to meet the ever changing demands of the renewable energy market. The New Hybrid Series High Performance Inverter delivers exceptional performance and unsurpassed quality in a All-In-One Solution for all your Energy needs.

### Model GSL-H-12KLV-US

AC 220V Single Phase,  
120/240V Split Phase,  
120/208V Three Phase,

12kW EPS Output

10 Units Paralleling

AC Coupling Function

3 MPPT Input for max input 18kW

Separated Generator Input

200A AC Passthrough Current

Peak Shaving Function

5in Color LCD, Touch Screen

10 Years Long Term Warranty



## Applications

Solar Renewable Energy

Back-Up Energy Systems

Home, Office and Trailer

Multiple Protection Management System

Other electric applications with high energy requirements



Villa



Communication  
base station



Nomadic  
area



Farm

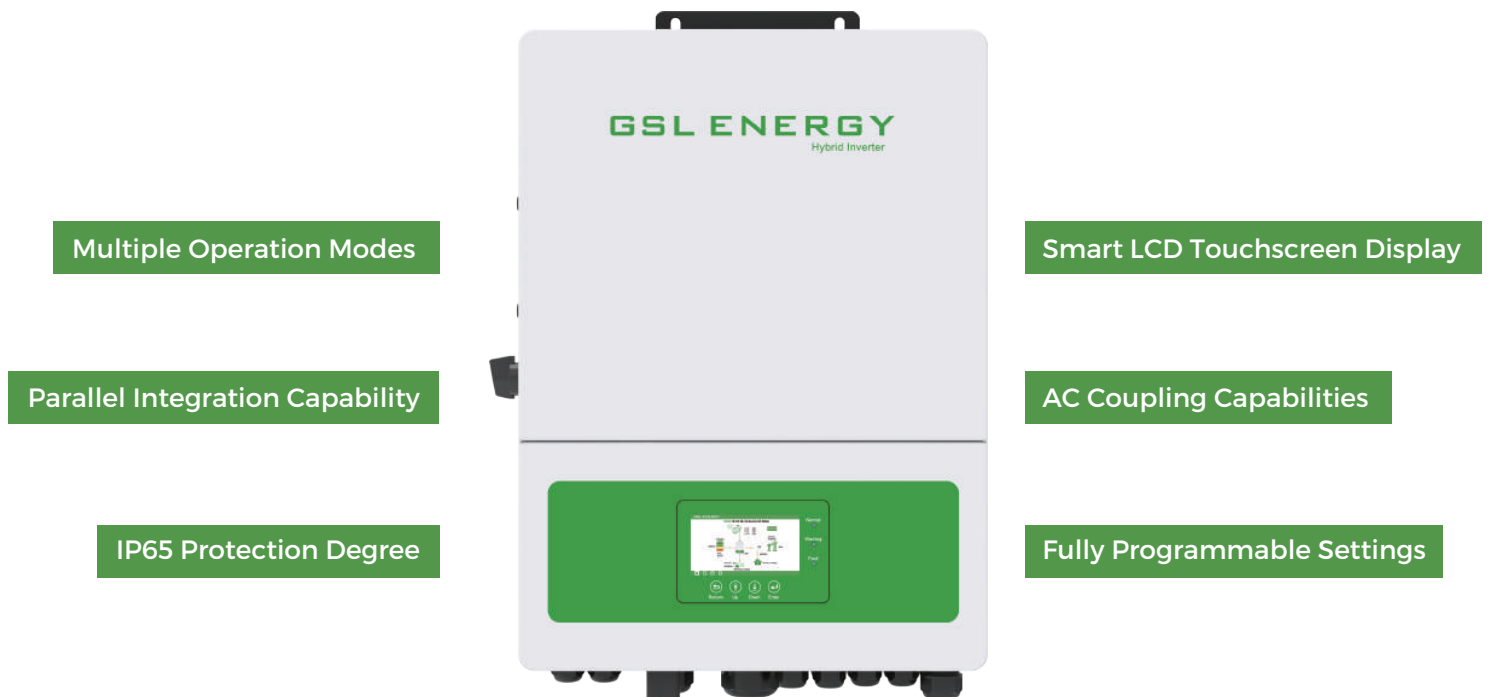


Household



Field  
power supply

# Hybrid GSL-H-12KLV-US High Performance Inverter



## UNPARALLEL SAFETY



The GSL Hybrid Series Inverter includes a complete intelligent and comprehensive Management Energy System for multiple connections with abundant safety features such as PV Arc Faut Detection, PV Input Lightning Protection, Output Over Current Protection among many other safety protection protocols.

## LONG LIFE DESIGN



The GSL Hybrid Series has been developed to withstand the harsh conditions of today's weather and temperatures with an IP65 protection rating making the unit the best of its kind. Our quality assurance is backed up by a 5 year warranty.

## UNSURPASSED PERFORMANCE



Our Hybrid Series Inverter is designed to excel in every application. With up to 190A continuous discharge current, rest assured the GSL Hybrid Inverter will deliver the energy you need when you need every time.

## UN MATCHED RELIABILITY



Every GSL Energy product is born from meticulous research and development and is then subjected to rigorous testing. The Nexen Hybrid Series is no exception, offering you total versatility without sacrificing maximum performance and reliability.

## EASY INSTALLATION



The GSL Hybrid Series Inverter can work as a stand-alone unit or it can be mounted as a wall accessory for that sleek compact design that not only saves you space, but will definitely improve the looks of you renewable or backup system.

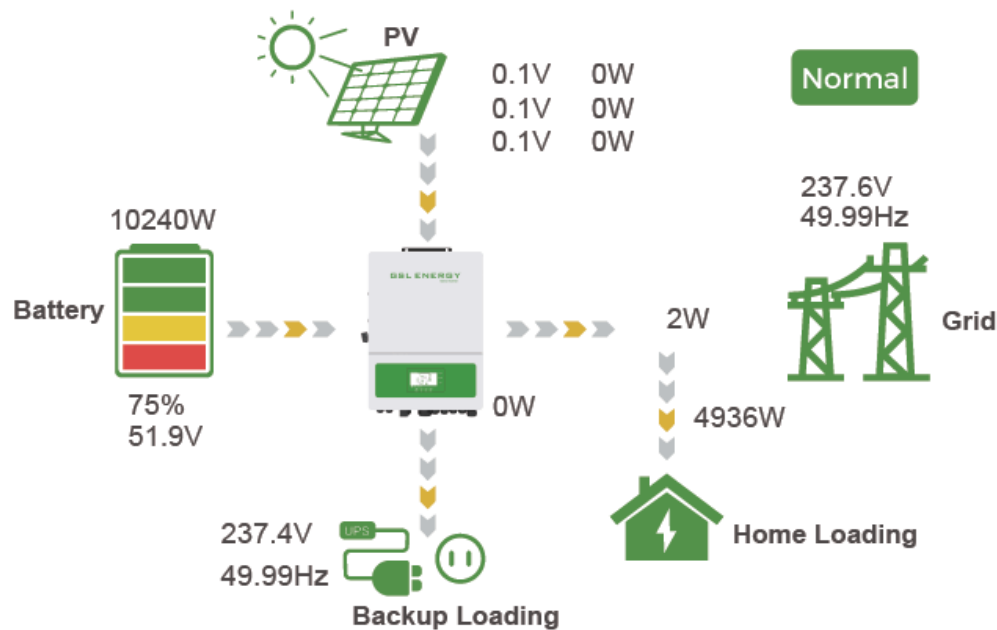
## Hybrid Key Features

- 120V/240V Split phase Pure Sine Wave
- Self-consumption and feed-in to the grid.
- Auto restart while AC is recovering.
- Programmable supply priority for battery or grid.
- Multiple operation modes: On grid, off grid and UPS.
- Configurable battery charging current/voltage settings
- Configurable AC/Solar/Generator Charger Settings
- WIFI monitor Support Monitor System and Cloud Connect
- Voltage Compatibility
- Multiple Stages Protection
- Smart Battery Charger Design
- Limit Prevent Function Overflow
- Built-In 3 strings of MPP trackers
- Smart MPPT Charging System
- Time of use function.
- Smart Load Function.

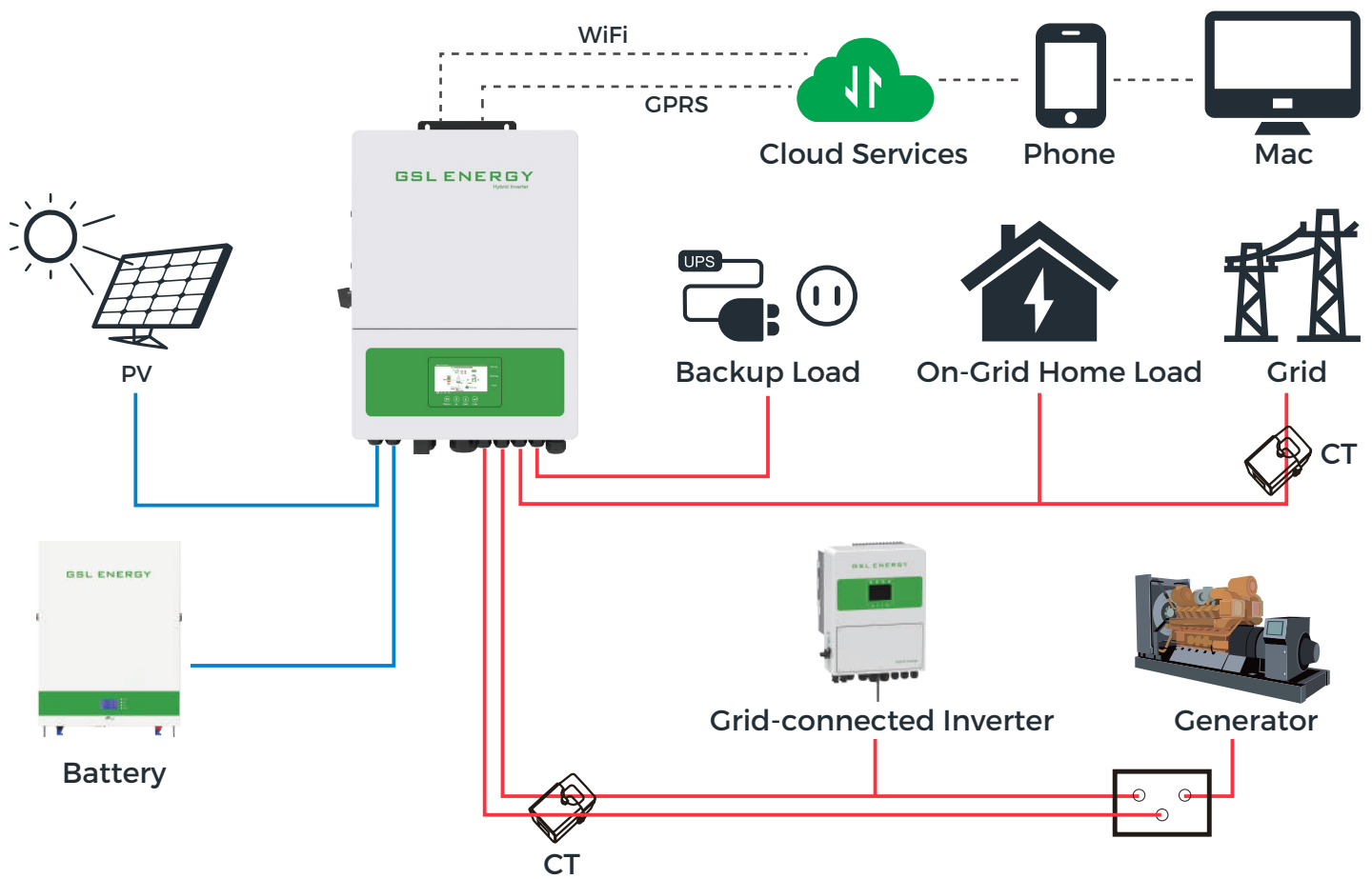
## Hybrid 5.0 inch Big Touchscreen LCD Display

GSL ENERGY

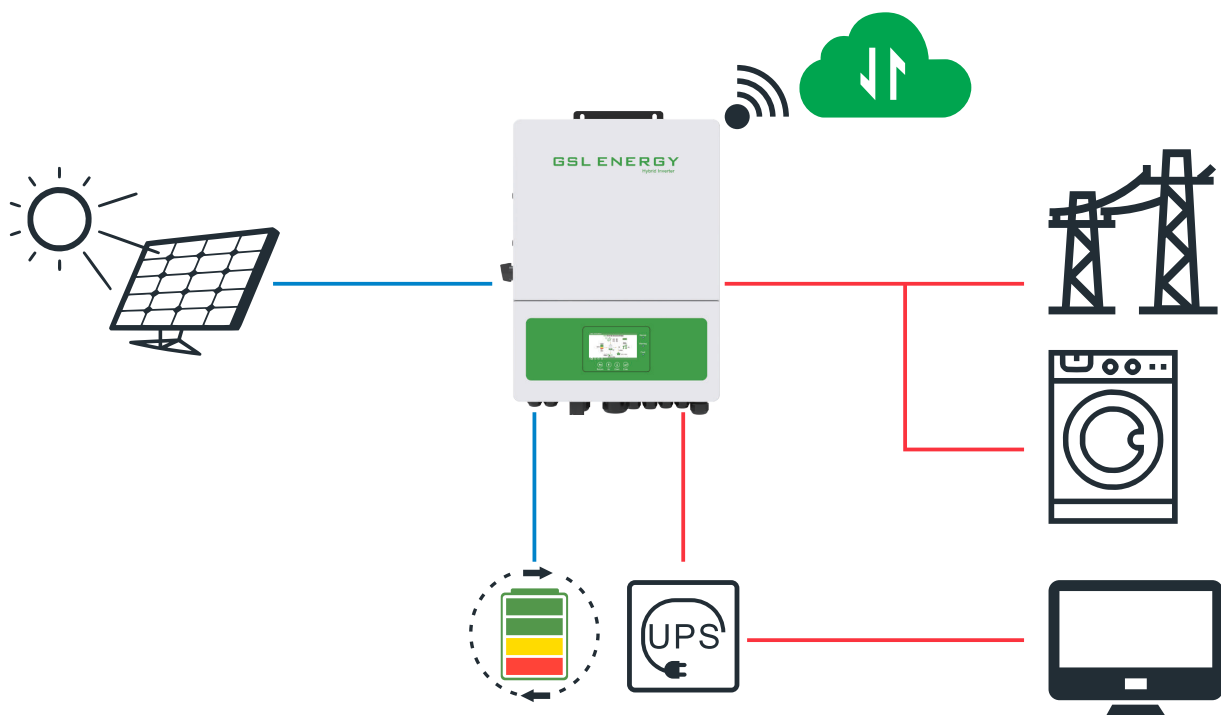
Hybrid 5.0 inch Big Touchscreen LCD Display



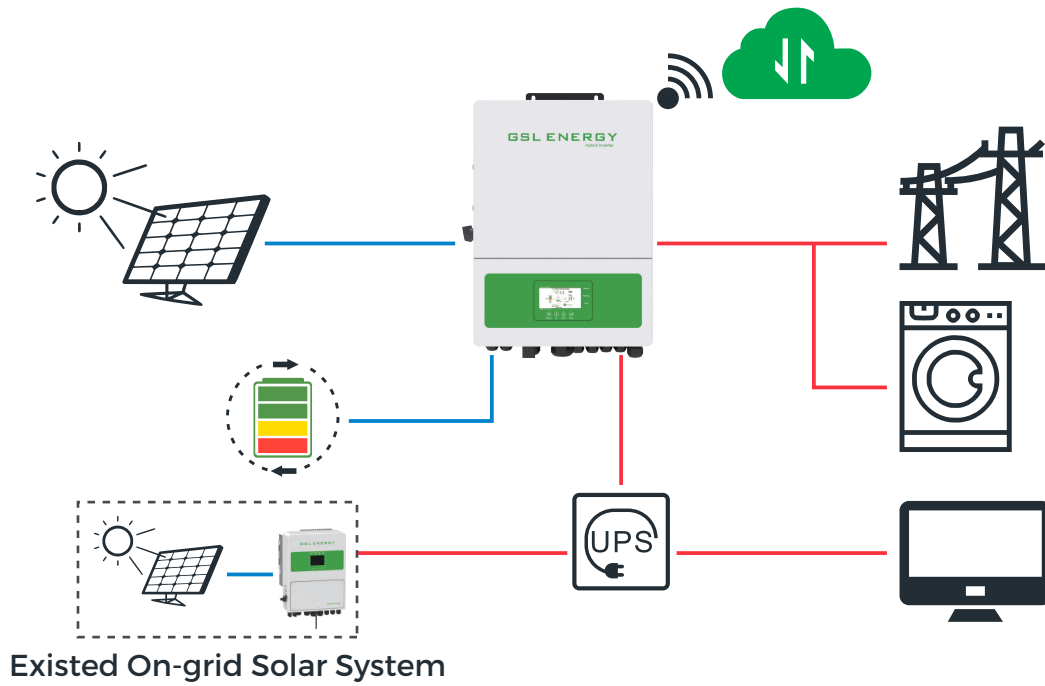
# Hybrid Basic Architecture



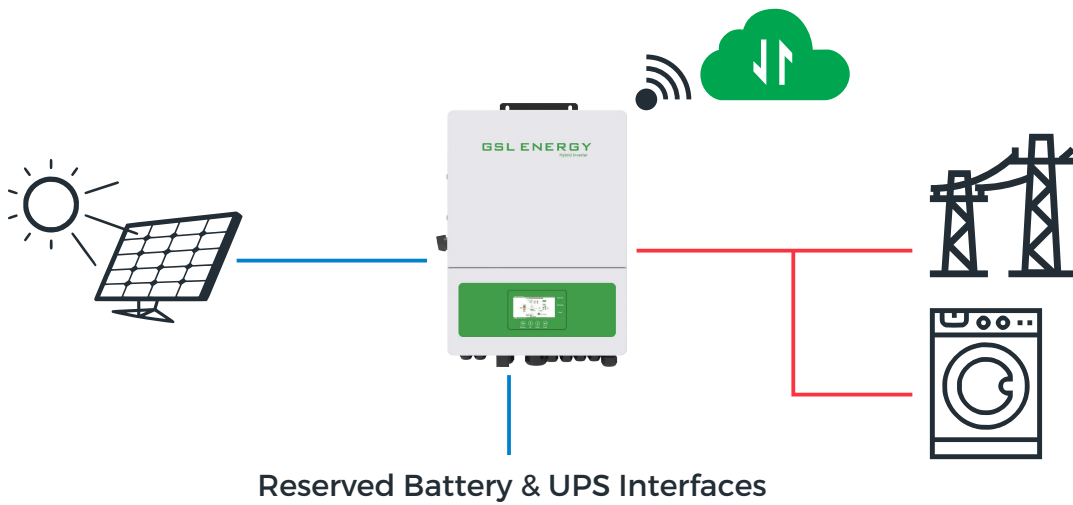
## 1. Solar and battery storage system



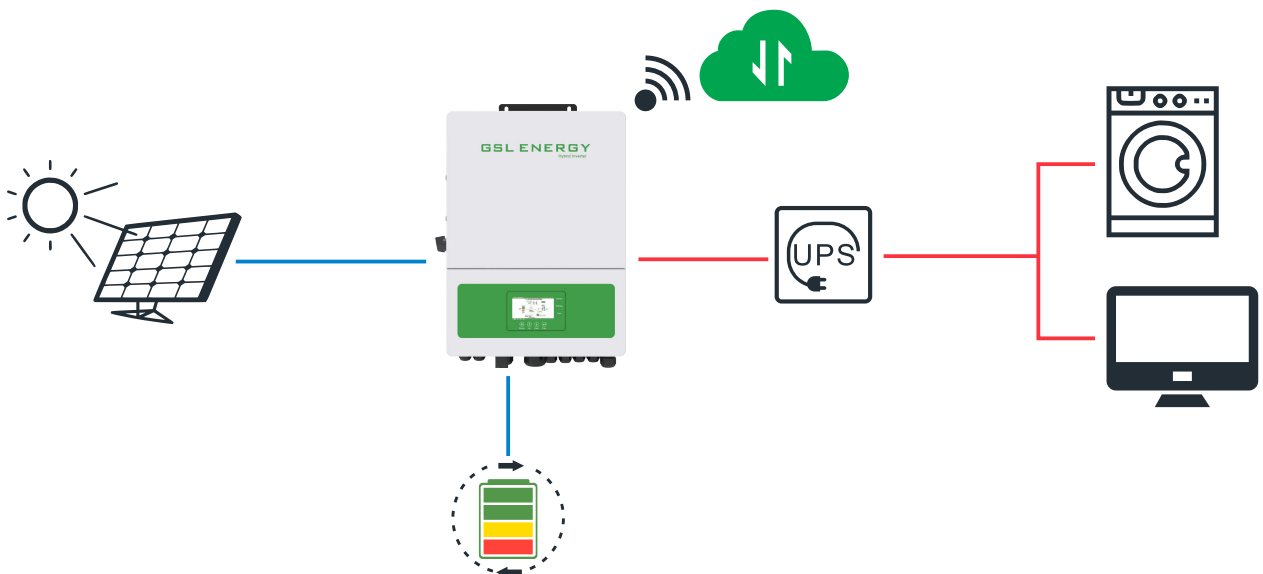
## 2. AC Coupling with existed solar system



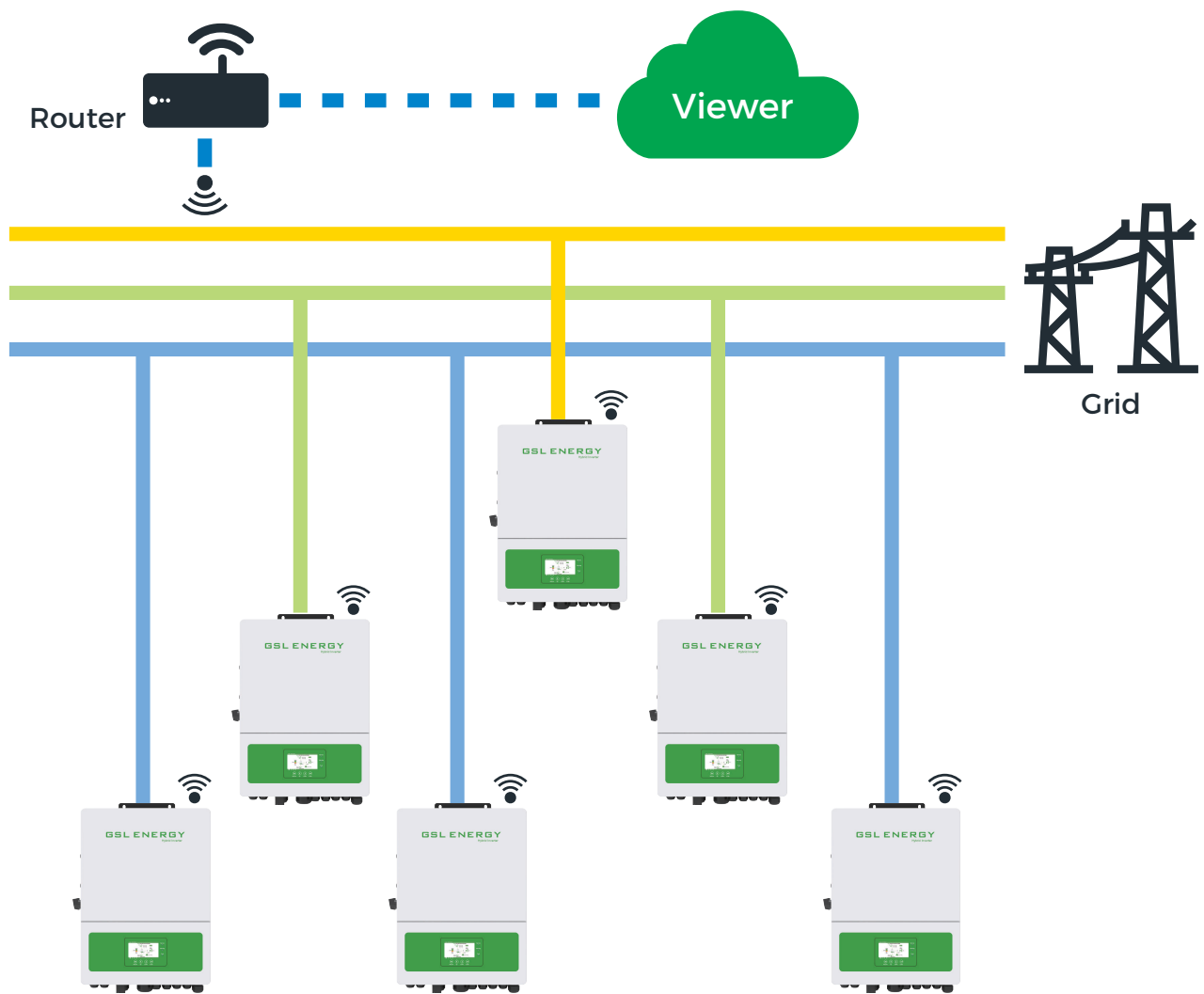
### 3. On-grid solar system without battery (Support EPS even without battery)



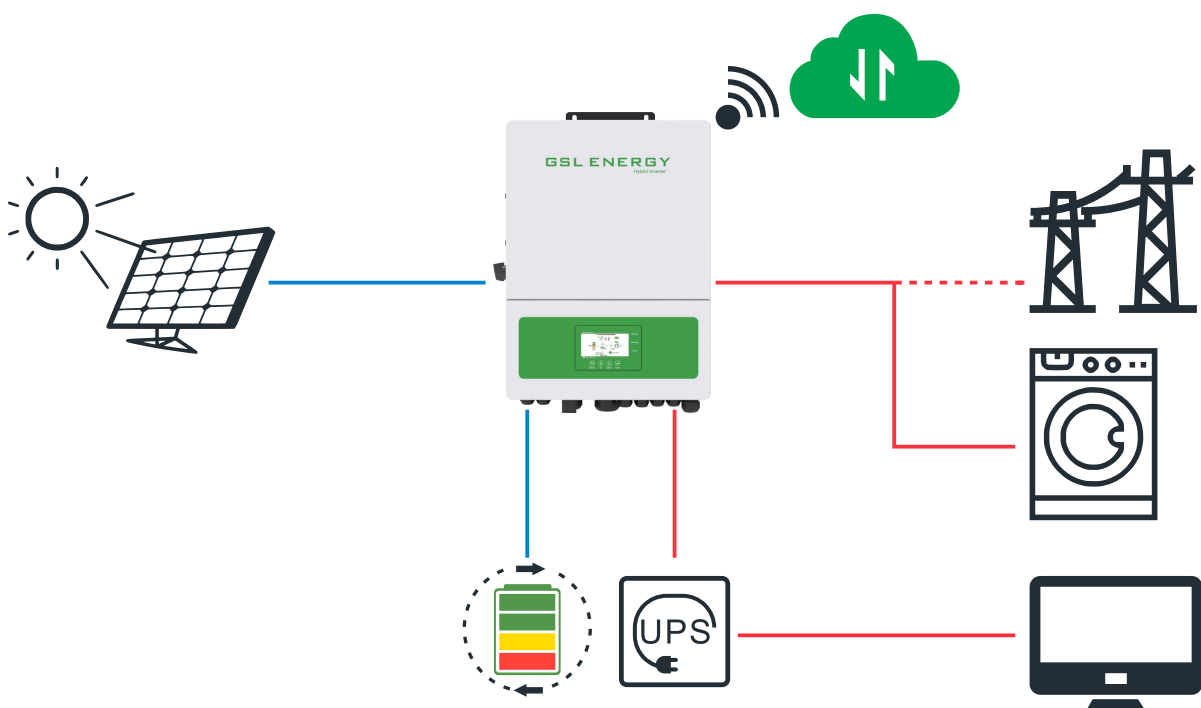
## 4. Off-grid and back-up applications



## 5. Single and three phase paralleling system



## 6. Energy storage system with peak shaving Function



# Specification

Battery Parameters	GSL-H-12KLV-US
Compatible Battery Type	Lead-acid/Lithium
Nominal Battery Voltage	48V
Battery Voltage Range	40V~60V
Maximun Charging/Discharging Current	250A/250A
Maximun Charging/Discharging Power	12000W
Input DC (PV Side)	
Max. DC Input Power for Single MPPT	12000W/7000W/7000W
Max. PV Input Power	18000W
DC Input Voltage Range	100V~600V
Nominal DC Input Voltage	360V
Full Power MPPT Voltage Range	230~500V
Max. DC Input Current	25A/15A/15A
MPPT Number/(Strings per MPPT)	3(2/1/1)
Output/Inout AC (Grid)	
Nominal Power	12000W
Nominal AC Voltage	AC 220V Single Phase, 120/240V Split Phase, 120/208V Three Phase
Operating Voltage Range	180V~270V
Max. Continuous AC Current	50A@240V, 50A@208V
Nominal AC Frequency	50Hz/60Hz
UPS Output-with Battery	
UPS Max. Output Power	12000W
UPS Nominal Output Voltage	AC 220V Single Phase, 120/240V Split Phase, 120/208V Three Phase
UPS Nominal Output Frequency	120V/240V, 120V/208V
UPS Nominal Output Current	50Hz/60Hz
Peak Power	50A@240V, 57.7A@208V
Switching Time	14kW 10minutes / 16kW 5minutes / 20kW 500ms <20ms
Efficiency	
MPPT Efficiency	99.9%
Max. Efficiency	97.5%
EU Efficiency	96.5%
Battery Charging Efficiency	95%
Battery Discharging Efficiency	94.5%
Protection	
Anti-islanding Protection	YES
DC Switch	YES
Ingress Protect Degree	IP65
SPD Protection	YES
AFCI	OPT
RSD	OPT
General Data	
Dimension(mm)	670*490*265
Weight	42kg
Display	Color LCD
Topology	Transformer-less
Ambient Temperature Range	-25~60 ℃
Cooling	FAN
Communication	RS485/Wi-Fi/CAN
Standard & Certification	
EMC	IEEE1547, FCC, SDOC
Safety Standard	UL 1741
Grid Standards	IEEE1547
Warranty	10 years



# GSL ENERGY GREEN SOLUTIONS

ENJOY THE SUNNY SIDE OF  
OUR SOLUTIONS

SWITCH YOUR ENERGY NEEDS  
TO EFFICIENT RENEWABLE  
TECHNOLOGIES.

FROM STORED ENERGY  
TO ENERGY GENERATION ,  
WE'VE GOT YOU COVERED.

