

GSL ENERGY

Split Phase Inverter HS-LV12KNA

Power your home,
Enjoy green life



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GSL ENERGY

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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 HS-LV12KNA

120/240V Split Phase;
120/208V Three Phase

12kW EPS Output

1 to 6 Units Paralleling

AC Coupling Function

2 MPPT Input for max input 18kW

Separated Generator Input

200A AC Passthrough Current

Peak Shaving Function

5in Color LCD, Touch Screen

5 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 HS-LV12KNA High Performance Inverter



Multiple Operation Modes

Smart LCD Touchscreen Display

Parallel Integration Capability

AC Coupling Capabilities

IP65 Protection Degree

Fully Programmable Settings

UNPARALLEL SAFETY



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

LONG LIFE DESIGN



The 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 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

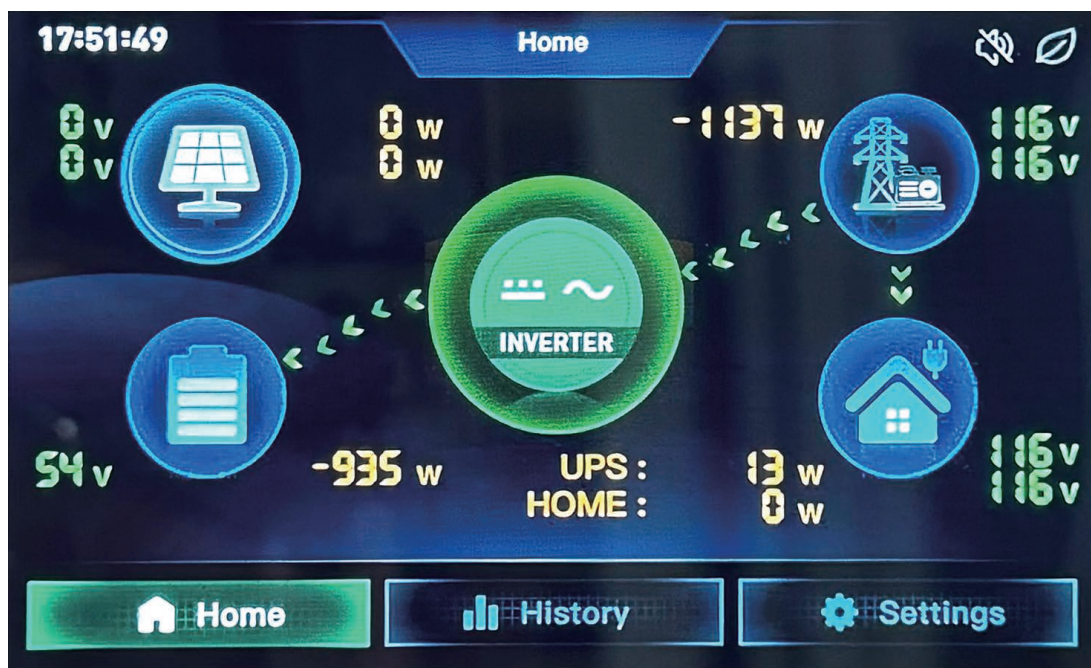


The Hybrid Series Inverter can work as a stand-alone unit or it can be mounted as a wall accessory for that sleek compact design that not only saves you space, but will definitely improve the looks of you renewable or backup system.

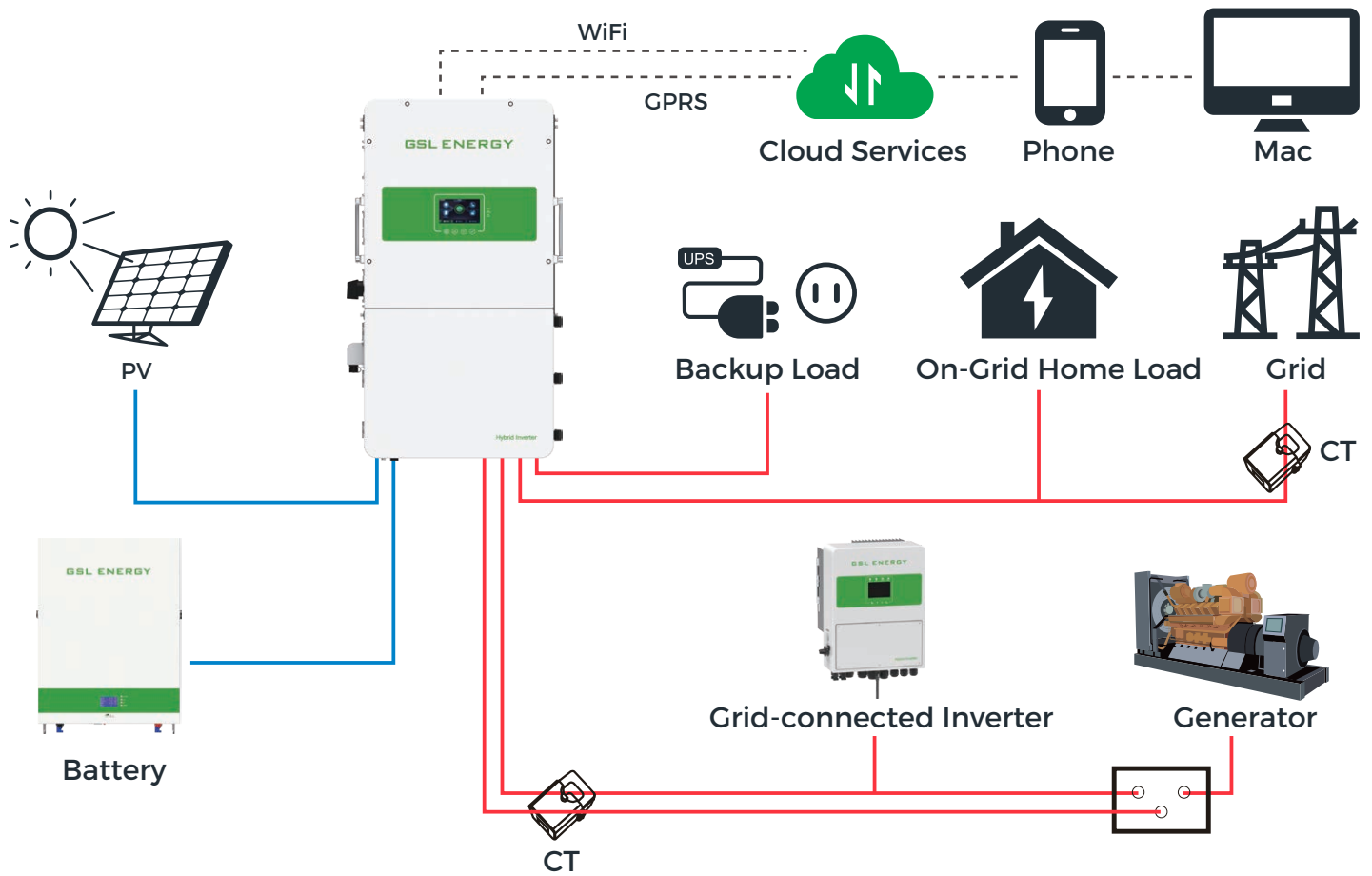
Hybrid Key Features

- 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 2 strings of MPP trackers
- Smart MPPT Charging System
- Time of use function.
- Smart Load Function.

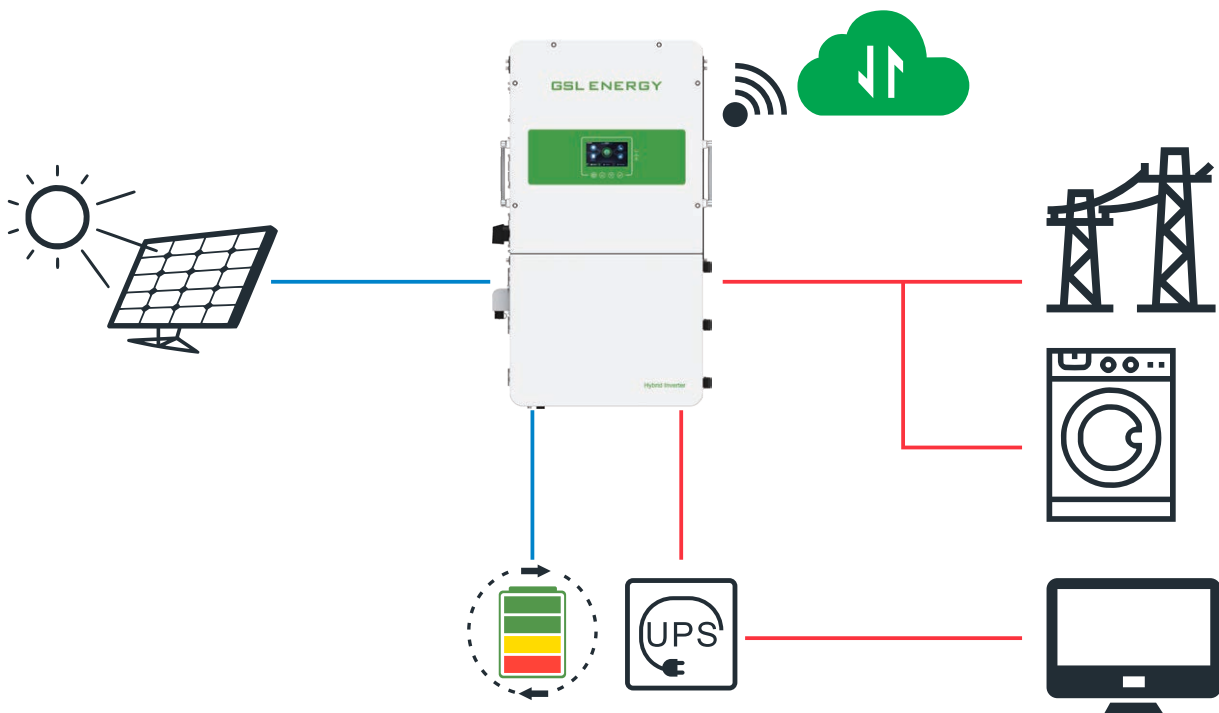
Hybrid 5.0 inch Big Touchscreen LCD Display



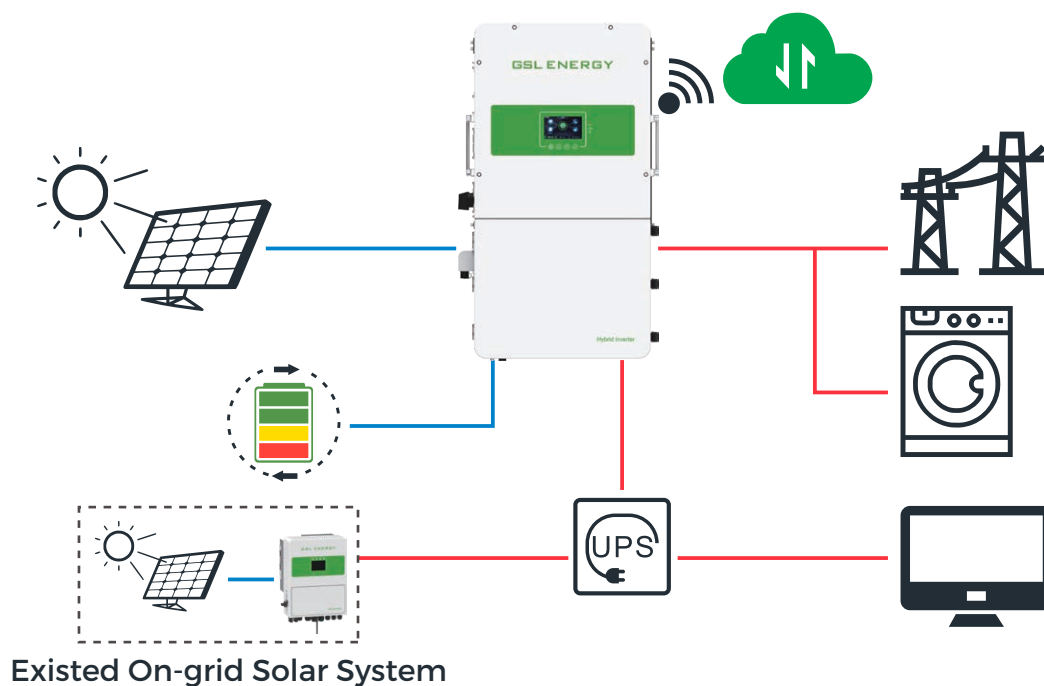
Hybrid Basic Architecture



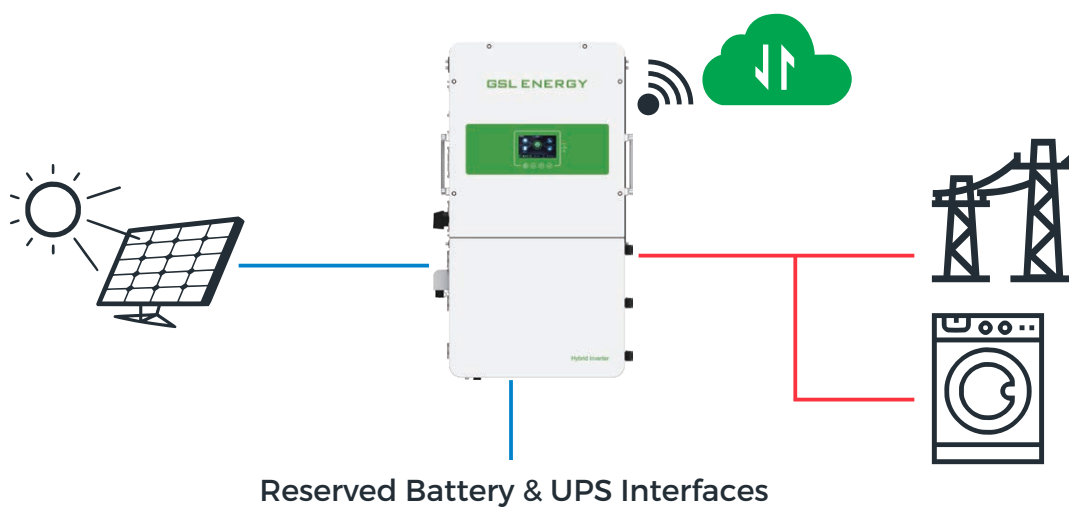
1. Solar and battery storage system



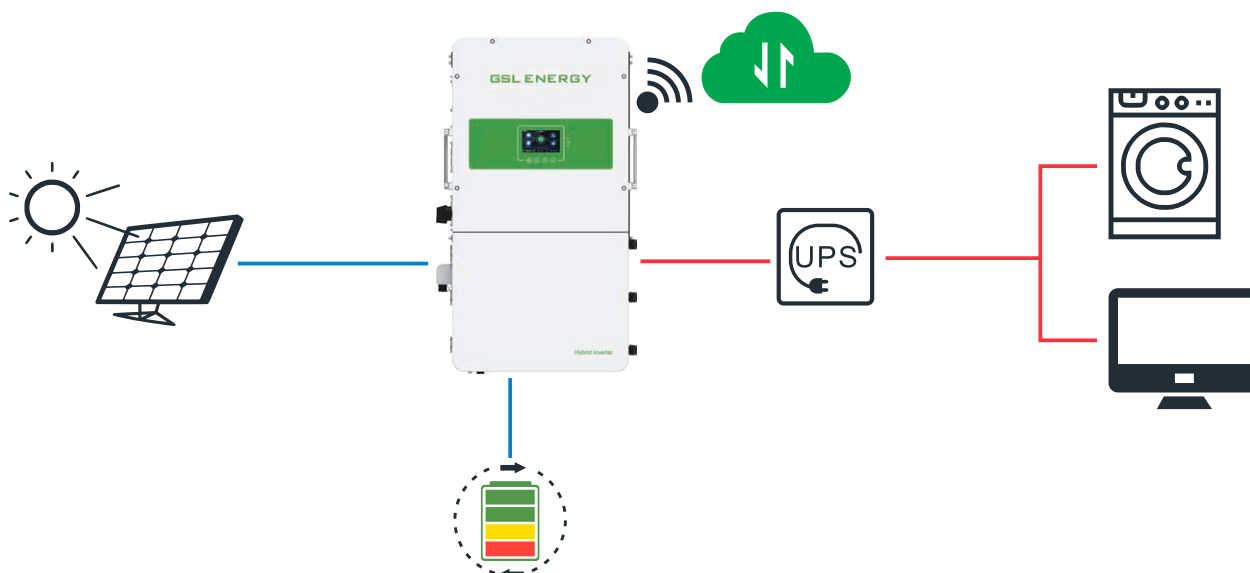
2. AC Coupling with existed solar system



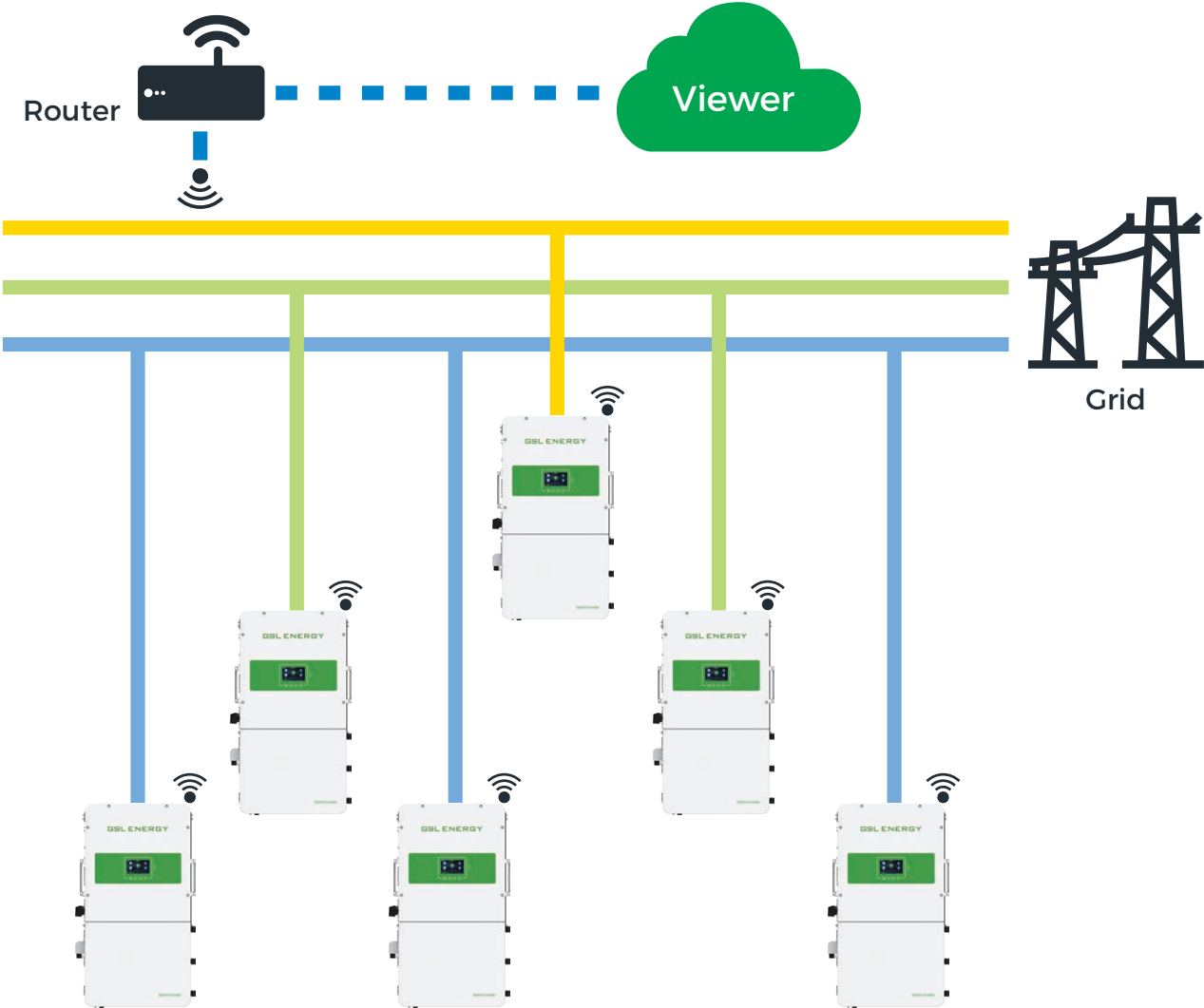
3. On-grid solar system without battery (Support EPS even without battery)



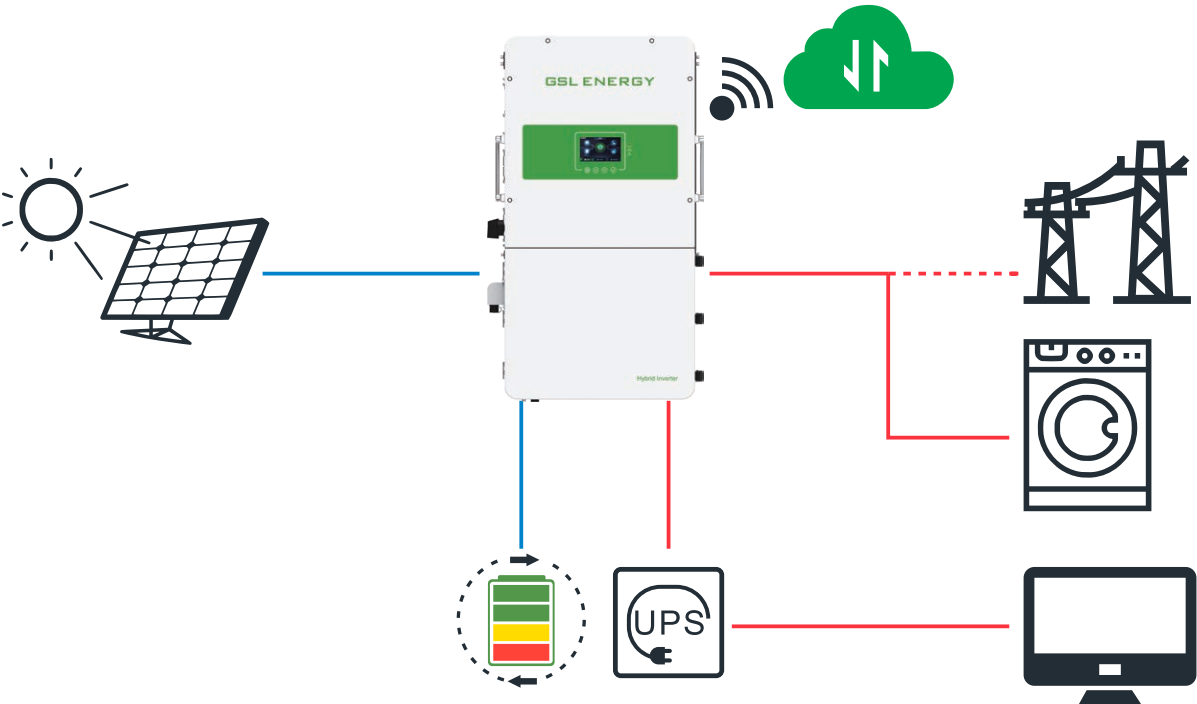
4. Off-grid and back-up applications



5. Single and three phase paralleling system



6. Energy storage system with peak shaving Function



MODEL		HS-LV12KNA
INVERTER OUTPUT		
Rated Output Power	@240V 12000W @208V 10400W	
Maximum Peak Power	1.5 times rated power	
Rated Output Voltage	120/240Vac (Split-phase) ; 120/208V(Three-phase)	√
Output Voltage Error	50A	
Motor Load Capacity	6HP	
Rated AC Frequency	50/60Hz	√
Waveform	Pure Sine Wave	
Parallel Capacity	1 to 6 units (2 or more units can form a three-phase output)	
BATTERY		
Battery Type	Li-ion / Lead-Acid / User Defined	√
Rated Battery Voltage	48Vdc	
Battery Voltage Range	40 ~ 60Vdc	√
Max. PV Charging Current	200A	√
Max. Generator Charging Current	90A	√
Max. Hybrid Charging Current	240A	√
PV INPUT		
Num. of MPPT	2	
Max. PV Array Power	9000W / 9000W	
Max. Input Current	32A / 32A	
Short Circuit Current Isc	40A / 40A	
Max. Open-circuit Voltage	550Vdc / 550Vdc	
MPPT Operating Voltage Range	125 ~ 450Vdc / 125 ~ 450Vdc	
MAINS / GENERATOR INPUT		
Input Voltage Range	90 ~ 140Vac	
Frequency Range	50/60Hz	
Max. Continuous Bypass Current	200A	
Efficiency		
MPPT Tracking Efficiency	99.9%	
Max. Efficiency	97.5%	
CEC Efficiency	96.5%	
COMMUNICATION		
Embedded Interfaces	RS485 / CAN / USB / Dry contact	
External Modules (optional)	Wi-Fi / GPRS	
GENERAL		
Dimensions	840*440*260mm	
Weight	48KG	
Protection Degree	IP65	
Operating Temperature Range	-25~60℃, >45℃ derated	
Noise	<60dB	
Self-consumption	<100W	
Cooling method	Heat sink + intelligent fan cooling	
CERTIFICATION		
Safety Standards	UL1741&IEEE1547.1-2020, CEC, RULE 21, HECO	
EMC	FCC 15 class B	
RoHS	Yes	

Split Phase Inverter
HS-LV12KNA

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ENJOY THE SUNNY SIDE OF
OUR SOLUTIONS

SWITCH YOUR ENERGY NEEDS
TO EFFICIENT RENEWABLE
TECHNOLOGIES.

FROM STORED ENERGY
TO ENERGY GENERATION ,
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