

## Energy Storage

## GSL 5K 8K 10K 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 apperance, 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

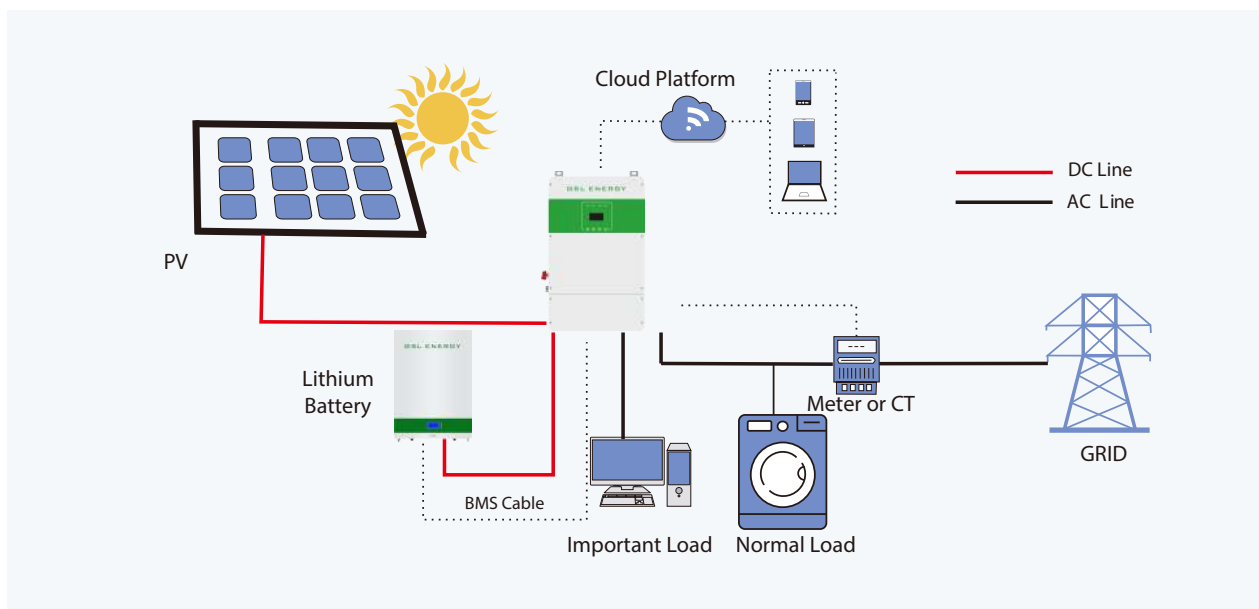


Household



Field  
power supply

## Product Topology



| Model  | GSL-H-5KLV-US   | GSL-H-8KLV-US  | GSL-H-10KLV-US      |
|--|---|--|---------------------|
| <b>PV Input</b>                              |   |  |                     |
| PV input power                               | 7.5KW   | 12KW   | 13KW                |
| MPPT number                                  |   | 4  |                     |
| PV voltage range                             |   | 350V/85V - 500V  |                     |
| MPPT voltage range                           |   | 120V-500V  |                     |
| Single MPPT input current                    |   | 12A  |                     |
| <b>Battery</b>                               |   |  |                     |
| Max charging/discharging current             | 120A/120A   | 190A/190A  | 210A/210A           |
| Battery Voltage range                        |   | 40-58V   |                     |
| Battery Type                                 |   | Lithium-ion,Lead-acid                                  |                     |
| <b>Back-up AC Output</b>                     |   |  |                     |
| Rated Backup output power                    | 5KVA  | 8KVA   | 10KVA               |
| Max Backup output power                      | 6.25kVA 60S, 7.5KVA 1S  | 10kVA 60S, 12KVA 1S                                    | 10kVA 60S, 13KVA 1S |
| Backup AC output Voltage                     | 120/240Vac(split phase), 208Vac(2/3 phase),230Vac(single phase) |  |                     |
| AC Frenquency                                |   | 50/60Hz  |                     |
| Output THDI                                  |   | < 2%   |                     |
| <b>On Grid AC Output</b>                     |   |  |                     |
| Rate AC Output Power                         | 5KVA  | 8KVA   | 10KVA               |
| AC Output Voltage                            | 120/240Vac(split phase), 208Vac(2/3 phase),230Vac(single phase) |  |                     |
| AC Output Frenquecny                         |   | 50/60Hz  |                     |
| Grid Type                                    |   | Split phase, 2/3 phase, Single Phase                   |                     |
| Max Output Current                           | 24A   | 38.3A  | 47.8A               |
| AC reverse charging                          |   | Yes  |                     |
| PF   |   | 0.8leading...0.8lagging                                |                     |
| Output THDI                                  |   | < 2%   |                     |
| <b>Efficiency</b>                            |   |  |                     |
| Max Efficiency                               |   | >=98.2%  |                     |
| CEO Efficiency                               |   | >=97.2%  |                     |
| <b>Protection</b>                            |   |  |                     |
| Ground protection                            |   | YES  |                     |
| AFCI 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  |                     |
| <b>General Data</b>                          |   |  |                     |
| 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)                                    | <25dB   | <29dB  | <29dB               |
| Display                                      |   | LCD  |                     |
| Communication                                |   | Modbus, RS485, WIFI,4G                                 |                     |
| Safty  |   | 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 |                     |