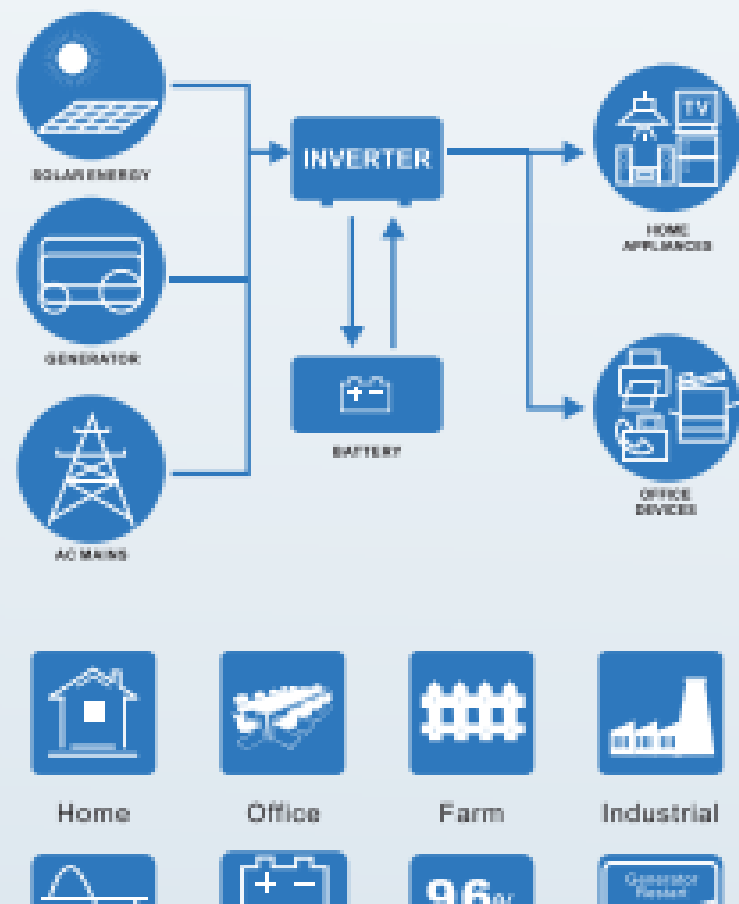




## Features:

- ◆ GS Series AC/Solar charging Off grid Hybrid Inverter.
- ◆ LED/LCD display, Enhanced functions setting via LCD, Man-machine intelligent design.
- ◆ Built-in 40A/60A optional MPPT solar charger controller.
- ◆ LCD shows the solar capacity.
- ◆ 5 stages adjustable AC charging current. AC charging also can be closed.
- ◆ AC/DC priority modes can be set.
- ◆ Generator restart signal(Dry contact).
- ◆ 3 times peak power. Strong loading capacity.
- ◆ Overload, output short-circuit protection.

## Application:



| Model                  |                                   | GS1000                                                                                                                             | GS2000 | GS3000 | GS4000        | GS5000 | GS6000 | GS8000                                          | GS10KW | GS12KW |
|------------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------|--------|--------|---------------|--------|--------|-------------------------------------------------|--------|--------|
| Power Rating           |                                   | 1000W                                                                                                                              | 2000W  | 3000W  | 4000W         | 5000W  | 6000W  | 8000W                                           | 10KW   | 12KW   |
| AC Input               | Input Voltage/Waveform            | Sinusoidal(utility or generator)                                                                                                   |        |        |               |        |        |                                                 |        |        |
|                        | Nominal input Voltage             | 120/230VAC                                                                                                                         |        |        |               |        |        | 230VAC                                          |        |        |
|                        | Low Line Disconnect               | 85Vac±4%(Normal) or 80Vac±4%(Wide) for 120Vac<br>184Vac±4%(Normal) or 135Vac±4%(Wide) for 230Vac                                   |        |        |               |        |        | 184Vac±4%(Normal) or 135Vac±4%(Wide) for 230Vac |        |        |
|                        | Low Line Re-connect               | 95Vac±4%(Normal) or 85Vac±4%(Wide) for 120Vac<br>194Vac±4%(Normal) or 145Vac±4%(Wide) for 230Vac                                   |        |        |               |        |        | 194Vac±4%(Normal) or 145Vac±4%(Wide) for 230Vac |        |        |
|                        | High Line Disconnect              | 136Vac±4%(Normal) or 145Vac±4%(Wide) for 120Vac<br>263Vac±4%(Normal) or 263Vac±4%(Wide) for 230Vac                                 |        |        |               |        |        | 263Vac±4%(Normal) or 263Vac±4%(Wide) for 230Vac |        |        |
|                        | Max AC input Voltage              | 120Vac for Max150Vac, 230Vac for Max270Vac                                                                                         |        |        |               |        |        | 230Vac for Max270Vac                            |        |        |
|                        | Frequency                         | 50Hz:41-54Hz, 60Hz:51-64Hz                                                                                                         |        |        |               |        |        |                                                 |        |        |
| AC Charger             | Nominal Charge Current            | 20A/35A/50A/70A/90A(5 stages adjustable charging current)                                                                          |        |        |               |        |        |                                                 |        |        |
|                        | Over Charge Protection            | Bat.V≥15.5VDC for 12V battery; Bat.V≥31.0VDC for 24V battery, Bat.V≥62.0VDC for 48V battery; beeps 0.5s every 1s & fault after 60s |        |        |               |        |        |                                                 |        |        |
| Solar Charger          | Rated Charge Current              | 40A                                                                                                                                | 60A    | 60A    | 60A           | 60A    | 60A    | 60A                                             | 60A    | 60A    |
|                        | PV Input Voltage range            | 15VDC-40VDC for 12VDC, 25VDC-75VDC for 24VDC, 55-145VDC for 48V                                                                    |        |        |               |        |        |                                                 |        |        |
|                        | Max PV open circuit array voltage | 12V for 40VDC, 24V for 75VDC, 48V for 145VDC                                                                                       |        |        |               |        |        |                                                 |        |        |
|                        | Charger mode                      | MPPT                                                                                                                               |        |        |               |        |        |                                                 |        |        |
|                        | PV Low Voltage Re-connect         | PV≥Bat.V+3V                                                                                                                        |        |        |               |        |        |                                                 |        |        |
|                        | PV Low Voltage Disconnect         | PV≤Bat.V                                                                                                                           |        |        |               |        |        |                                                 |        |        |
|                        | Efficiency                        | ≥97%                                                                                                                               |        |        |               |        |        |                                                 |        |        |
| Charger                | Nominal Charger Current           | 20A/35A/50A/70A/90A(According to the inverter model), 5 stages adjustable charging current                                         |        |        |               |        |        |                                                 |        |        |
|                        | Over charge Protection            | Bat.V≥15.5VDC/31VDC/62VDC,beeps 0.5s every 1s & fault after 60s                                                                    |        |        |               |        |        |                                                 |        |        |
| Efficiency             | Efficiency (Battery Mode)         | ≥87%                                                                                                                               |        |        |               |        |        |                                                 |        |        |
|                        | Efficiency (Line Mode)            | ≥98%                                                                                                                               |        |        |               |        |        |                                                 |        |        |
| Battery Voltage        | Nominal DC Input Voltage          | 12/24/48VDC                                                                                                                        |        |        | 24/48VDC      |        |        | 48VDC                                           |        |        |
|                        | Low Battery Alarm                 | 10.5VDC±0.3VDC for 12VDC, 21VDC±0.6VDC for 24VDC, 42VDC±1.2VDC for 48VDC                                                           |        |        |               |        |        |                                                 |        |        |
|                        | Low DC input shut-down            | 10VDC±0.3VDC for 12VDC, 20VDC±0.6VDC for 24VDC, 40VDC±1.2VDC for 48VDC                                                             |        |        |               |        |        |                                                 |        |        |
|                        | High DC input Alarm & Fault       | 18VDC±0.3VDC for 12VDC, 32VDC±0.6VDC for 24VDC, 64VDC±1.2VDC for 48VDC                                                             |        |        |               |        |        |                                                 |        |        |
| Transfer Time          | AC to DC                          | 20ms(max)                                                                                                                          |        |        |               |        |        |                                                 |        |        |
|                        | DC to AC                          | 15ms(max)                                                                                                                          |        |        |               |        |        |                                                 |        |        |
| System Parameter       | Over-Load Protection              | 110%<load<150%, beeps 0.5s every 1s, and Fault after 60s off the output, load>150%, beeps 0.5s every 1s, and Fault after 20s       |        |        |               |        |        |                                                 |        |        |
|                        | Output Short Circuit Protection   | Current limit(Fault after 10s)                                                                                                     |        |        |               |        |        |                                                 |        |        |
|                        | Surge Rating(10s)                 | 1:3(VA)                                                                                                                            |        |        |               |        |        |                                                 |        |        |
|                        | Power Saver                       | Load≤25W(Enabled on "P/S auto"Setting of Remote control )                                                                          |        |        |               |        |        |                                                 |        |        |
|                        | Protections Indicators            | Low battery,over charging,over load,over temp<br>LED+LCD Display                                                                   |        |        |               |        |        |                                                 |        |        |
| General Specifications | Operating Temperature Range       | 0°C to 40°C                                                                                                                        |        |        |               |        |        |                                                 |        |        |
|                        | Storage Temperature               | -15°C~60°C                                                                                                                         |        |        |               |        |        |                                                 |        |        |
|                        | Operation humidity                | 5% to 95%(non-condensing)                                                                                                          |        |        |               |        |        |                                                 |        |        |
|                        | Audible Noise cooling             | 60dB max<br>Forced air,variable speed fan                                                                                          |        |        |               |        |        |                                                 |        |        |
|                        | Dimension(L*W*H)                  | 480*336*190mm                                                                                                                      |        |        | 530*400*190mm |        |        | 627*416*204mm                                   |        |        |
|                        | Net Weight(kg)                    | 19.5kg                                                                                                                             | 23.5kg | 28.0kg | 30.0kg        | 35.5kg | 39.0kg | 52.5kg                                          | 58.5kg | 66.5kg |

◆ Product specifications are subject to change without further notice.