

## Hybrid Off-Grid Solar Inverter 1KW - 10KW

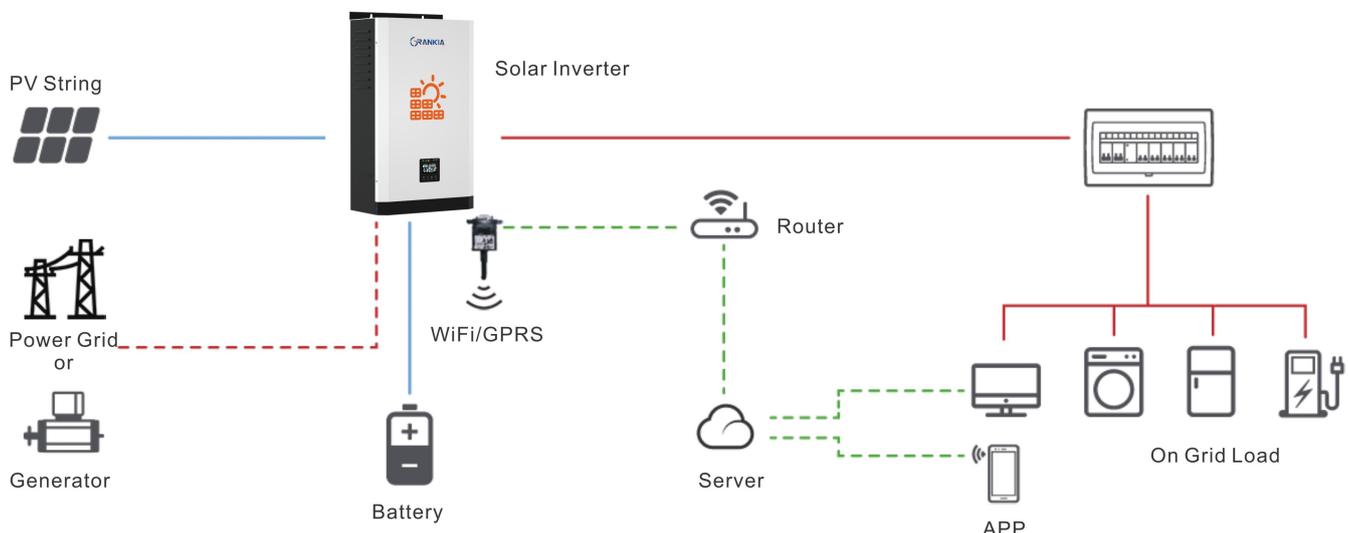
GWS series hybrid off-grid solar inverter, ranging from 1000W to 10kW, guarantees a seamless power supply, providing stable and clean power output ideal for sensitive electronic devices and appliances. Safety and efficiency are enhanced with a built-in isolated toroidal transformer, while charging current can be customized for various battery banks. Power input source configuration is effortless through LCD settings, taking advantage of LiFePO4 lithium batteries' benefits such as longer lifespan, high energy density, and enhanced safety features. Its comprehensive LCD display enables user-configurable and easily accessible button operations, including adjusting battery charging current, selecting AC/solar charger priority, and setting acceptable input voltage levels for different applications.



### Product Features

- Pure sine wave output with advanced SPWM technology
- Built-in toroidal transformer
- High efficiency MPPT solar charge controller
- Boost and buck AVR for voltage stabilization
- Configurable AC/solar input priority via LCD setting
- Auto restart while AC is recovering
- User-adjustable battery charging voltage and current suits different types of batteries
- Uninterruptible power supply in case of grid black-out
- Overload, over-temperature and short-circuit protection
- Cold start function

### Product Overview



## Technical Specification

Model	GWS1K	GWS1.5K	GWS2K	GWS3K-24	GWS3K-48
Rated Power	1000W	1500W	2000W	3000W	
<b>INPUT</b>					
Nominal Voltage	110V/120V/127VAC or 220V/230V/240VAC				
Voltage Range	140V-275V		165V-275V		
Frequency Range	50Hz / 60Hz $\pm$ 2.5Hz (Auto sensing)				
<b>OUTPUT</b>					
Nominal Voltage	110V/120V/127VAC or 220V/230V/240VAC $\pm$ 0.5% (AC Mode $\pm$ 10%)				
Frequency	50Hz / 60Hz				
Surge Power	3000W	4500W	6000W	9000W	
Battery Efficiency	81%	83%			
AC Efficiency	93%				
Transfer Time	< 8ms				
Waveform	Pure Sine Wave				
<b>BATTERY</b>					
Battery Voltage	12VDC	24VDC		48VDC	
Floating Charge Voltage	13.6VDC	27.2VDC		54.4VDC	
Overcharge Protection	15.0VDC	30.0VDC		60.0VDC	
<b>CHARGER</b>					
Max. PV Array Power	420W	850W	1710W	3420W	
MPPT Range @ Operating Voltage	15-95VDC	30-135VDC	30-135VDC	60-135VDC	
Max. PV Array Open Circuit Voltage	100VDC	100VDC	150VDC	150VDC	
Max. Solar Charge Current	30A	30A	60A	60A	
AC Charge Current	0-20A	0-20A	0A-40A	0A-40A	
Maximum Charge Current	50A	50A	100A	100A	
<b>ENVIRONMENT</b>					
Humidity	5%~93% (No condensation)				
Temperature	-10°C ~ 50°C				
Altitude	$\leq$ 3000m**				
<b>INTERFACE</b>					
Communication	RS232(standard), RS485/WIFI (option)				
Display	LCD + LED				
<b>MECHANICAL SPECIFICATIONS</b>					
Dimension, DxWxH (mm)	450x280x140		650x370x190		
Weight (Kg)	13.9	15.6	25.2	30.1	30.1

## Technical Specification

Model	GWS4K	GWS5K	GWS6K	GWS8K	GWS10K
Rated Power	4000W	5000W	6000W	8000W	10KW
<b>INPUT</b>					
Nominal Voltage	110V/120V/127VAC or 220V/230V/240VAC				
Voltage Range	165V-275V				
Frequency Range	50Hz / 60Hz $\pm$ 2.5Hz (Auto sensing)				
<b>OUTPUT</b>					
Nominal Voltage	110V/120V/127VAC or 220V/230V/240VAC $\pm$ 0.5% (AC Mode $\pm$ 10%)				
Frequency	50Hz / 60Hz				
Surge Power	12KW	15KW	18KW	24KW	30KW
Battery Efficiency	85%			90%	
AC Efficiency	93%				
Transfer Time	< 8ms				
Waveform	Pure Sine Wave				
<b>BATTERY</b>					
Battery Voltage	48VDC			96VDC	
Floating Charge Voltage	54.4VDC			108.8VDC	
Overcharge Protection	60.0VDC			120.0VDC	
<b>CHARGER</b>					
Max. PV Array Power	3420W		5700W		11400W
MPPT Range @ Operating Voltage	60-135VDC		60-135VDC		125-225VDC
Max. PV Array Open Circuit Voltage	150VDC		150VDC		230VDC
Max. Solar Charge Current	60A		100A		100A
AC Charge Current	0A-40A		0-40A		0-40A
Maximum Charge Current	100A		140A		140A
<b>ENVIRONMENT</b>					
Humidity	5%~93% (No condensation)				
Temperature	-10°C ~ 50°C				
Altitude	$\leq$ 3000m**				
<b>INTERFACE</b>					
Communication	RS232(standard), RS485/WIFI (option)				
Display	LCD + LED				
<b>MECHANICAL SPECIFICATIONS</b>					
Dimension, DxWxH (mm)	650x370x190			707x406x265	
Net Weight (Kg)	33.3	38.3	51.0	58.0	65.0

\*\*Power derating 1% every 100m when altitude is over 1000m.

Product specifications are subject to change without further notice.