

1.0KW/1.5KW/2.0KW/3.0KW

This is a multi-function inverter/charger, combining functions of inverter, solar charger and battery charger to offer uninterruptible power support with portable size. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications.



FEATURES

STN10212 1.0KW

- Pure sine wave solar inverter
- Built-in 40A MPPT solar charger
- PV input voltage range 20-150VDC (for 1000W),30-150VDC (for 1500W)
- Built-in anti-dust kit for harsh environment
- Smart battery charge design to optimize battery life
- Meet rich customized demands
- Solar energy is provided directly to the load first













FEATURES

STN20212 2.0KW

STN30224 3.0KW

Pure sine wave solar inverter

Output power factor 1.0

Wifi&gprs available for ios and android

Built-in80a mppt solar charger

High pv input voltage range (30-400vdc)

Built-in anti-dusk kit for harsh environment

Smart battery charge design to optimize battery life

Meet the rich customize needs of customers



Compatibe with lithium battery

Solar energy is provided directly to the load first

BASIC SYSTEM ARCHITECTURE

The following illustration shows basic application for this inverter/charger. It also includes following devices to have a complete running system:

- Generator or Utility.
- PV modules

Consult with your system integrator for other possible system architectures depending on your requirements.

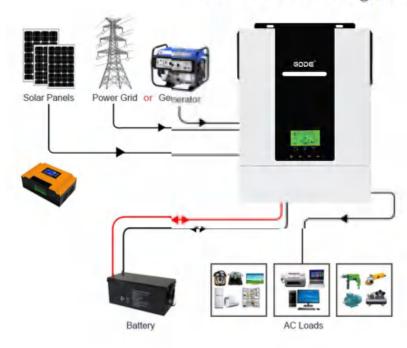
This inverter can power all kinds of appliances in home or office environment, including motor-type appliances such as tube light, fan, refrigerator and air conditioner.



Figure 1 Hybrid Power System

SYSTEM CONNECTION DIAGRAN

The diagram below shows the system application scenario of this product. A complete system consists of the following components:



The actual application scenario determines the specific system wiring method.

PV modules: converts light energy into DC energy, which can be used to charge the battery via an inverter or directly inverted into AC power to supply the load.

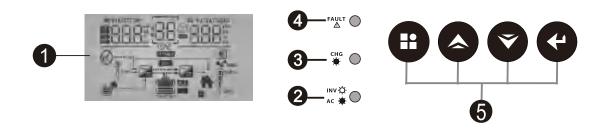
Utility grid or generator: connected to the AC input, it can supply the load and charge the battery at the same time. The system can also operate generally without the mains or generator when the battery and the PV module power the load.

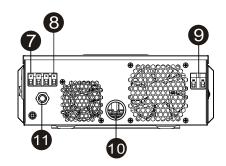
Battery: The role of the battery is to ensure the regular power supply of the system load when the solar energy is insufficient and there is no mains power.

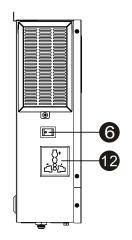
Home load: Various household and office loads can be connected, including refrigerators, lamps, televisions, fans, air conditioners, and other AC loads.

Invertor: The energy conversion device of the whole system.

PRODUCT OVERVIEW



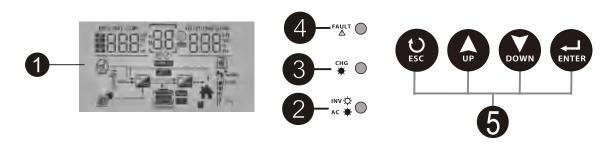


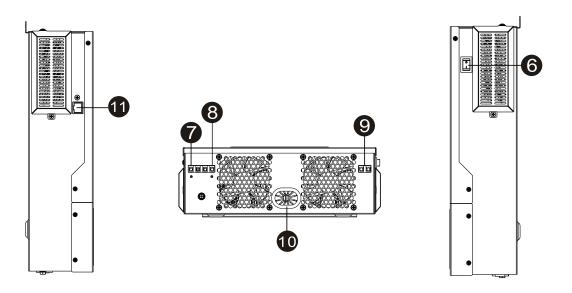


1	LCD display	7	AC input		
2	Status indicator	8	AC output		
3	Charging indicator	9	PV input		
4	Fault indicator		Battery input		
(5)	Function buttons	11)	Circuit breaker		
6	Power on/off switch	12)	Output receptacles		



PRODUCT OVERVIEW





1	LCD display	7	AC input
2	Status indicator	8	AC output
3	Charging indicator	9	PV input
4	Fault indicator	10	Battery input
(5)	Function buttons	11)	RS-232 communication port
6	Power on/off switch		



https://chinagode.com

OPERATION AND DISPLAY PANEL

The operation and display panel, shown in below chart, is on the front panel of the inverter. It includes three indicators, four function keys and a LCD display, indicating the operating status and input/output power information.



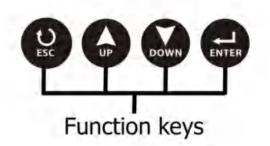
LCD display

LED Indicator

LED Indicator			Messages			
V	Green	Solid On	Output is powered by utility in Line mode.			
* AC/ ¥ INV		Flashing	Output is powered by battery or PV in battery mode.			
* 0110	Green	Solid On	Battery is fully charged.			
• CHG		Flashing	Battery is charging.			
▲ FAULT	Red	Solid On	Fault occurs in the inverter.			
		Flashing	Warning condition occurs in the inverter.			

Function Keys

Function Key	Description
ESC	To exit setting mode
UP	To go to previous selection
DOWN	To go to next selection
ENTER	To confirm the selection in setting mode or enter setting mode



PRODUCT SPECIFICATION

Model	STN10212				
Rated Power	1000VA/1000W				
Surge Power	2000VA				
AC Input Voltage	230VAC				
Frequency Range	50Hz/60Hz(Auto Sensing)				
AC Output Voltage	230VAC				
Efficiency(Peak)PV To INV	98%				
Efficiency(Peak)Battery To INV	94%				
Maximum AC Charging Current	40A				
Battery Voltage	12VDC				
Maximum PV Array Power	600W				
Maximum PV Array Open Voltage	150VDC				
MPPT Operating Voltage Range	20~150VDC				
Maximum PV Charging Current	40A				
Operating Temperature	-10~50°C				
Product Size	240x290x91mm				
Weight	3.5kg				
Warranty	3 years				

STN10212 1.0KW





PRODUCT SPECIFICATION

Model	STN15224				
Rated Power	1500VA/1500W				
Surge Power	3000VA				
AC Input Voltage	230VAC				
Frequency Range	50/60Hz				
AC Output Voltage	230VAC				
Efficiency(Peak)PV To INV	98%				
Maximum AC Charging Current	40A				
Battery Voltage	24VDC				
Maximum PV Array Power	1200W				
Maximum PV Array Open Voltage	150VDC				
MPPT Operating Voltage Range	30~120VDC				
Maximum PV Charging Current	40A				
Operating Temperature	-10~50°C				
Product Size	290x240x91mm				
Weight	3.6kg				
Warranty	3 years				

STN15224 1.5KW





PRODUCT SPECIFICATION

Model	STN20212			
Rated Power	2000VA/2000W			
Surge Power	4000VA			
AC Input Voltage	230VAC			
Frequency Range	50 Hz/60Hz(Auto Sensing)			
AC Output Voltage	230VAC			
Efficiency(Peak)PV To INV	98%			
Efficiency(Peak)Battery To INV	60A			
Maximum AC Charge Current	12VDC			
Battery Voltage	2000W			
Maximum PV Array Power	400VDC			
Maximum PV Array Open Circuit Voltage	30~400VDC			
Full Load MPPT Operating Voltage	240~350VDC			
Maximum Charging Current	80A			
Operating Temperature	-10~50°C			
Communication Interface	RS232/GPRS/WIFI			
Product Size	273x357x95mm			
Weight	5.2kg			
Warranty	3 years			

STN20212 2.0KW





PRODUCT SPECIFICATION

Model	STN30224			
Rated Power	3200VA/3000W			
Surge Power	6400VA			
AC Input Voltage	230VAC			
Frequency Range	50 Hz/60Hz(Auto Sensing)			
AC Output Voltage	230VAC			
Efficiency(Peak)PV To INV	98%			
Efficiency(Peak)Battery To INV	94%			
Maximum AC Charge Current	60A			
Battery Voltage	24VDC			
Maximum PV Array Power	3000W			
Maximum PV Array Open Circuit Voltage	400VDC			
Full Load MPPT Operating Voltage	240~350VDC			
Maximum Charging Current	80A			
Operating Temperature	-10~50°C			
Communication Interface	RS232/GPRS/WIFI			
Product Size	273*357*95mm			
Weight	6.2kg			
Warranty	3 years			

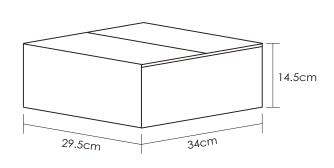
STN30224 3.0KW

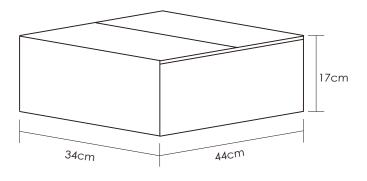




PACKAGING SPECIFICATION

P/N	Power .	Packing Size(CM)		D 00 (07)		0	
		L	W	Н	PCS/CTN	CBM/CTN	G.W/CTN(KGS)
STN10212	1000W	29.50	34.00	14.50	1	0.0145	4.00
STN15224	1500W	29.50	34.00	14.50	1	0.0145	4.20
STN20212	2000W	34.00	44.00	17.00	1	0.0254	6.00
STN30224	3000W	34.00	44.00	17.00	1	0.0254	7.00





STN10212/STN15224

STN20212/STN30224



INSTALLATION

Consider the following points before selecting where to install:

- Do not mount the inverter on flammable construction materials.
- Mount on a solid surface
- Install this inverter at eye level in order to allow the LCD display to be read at all times.
- For proper air circulation to dissipate heat, allow a clearance of approx. 20 cm to the side and approx. 50 cm above and below the unit.
- The ambient temperature should be between 0C and 55C to ensure optimal operation.
- The recommended installation position is to be adhered to the wall vertically.
- Be sure to keep other objects and surfaces as shown in the diagram to guarantee sufficient heat dissipation and to have enough space for removing wires.

