ON/OFF GRID SOLAR INVERTER

8.2KW/10.2KW

Built-in bare metal server function

Lithium battery activation, small charging current activation protection circuit. Dual AC outputs, one for main load (UPS function) and one for regular load. Inverter hybrid with WIFI and GPRS is available for IOS and Android.

Pure Sine Wave Inverter

Hybrid solar inverter with MPPT charge controller is a new type of all-in-one hybrid solar inverter charger, multi-function inverter/charger, which combines the functions of inverter, solar charger and battery charger to provide uninterruptible power supply support in portable size. Support dual PV input, dual MPPT voltage tracking. RGB flexible with different working modes (purple photovoltaic mode; Red battery mode, blue utility mode).

With grid-connected/off-grid function

1. Off-grid (default): The inverter only operates in off-grid mode. Solar energy provides electricity to the load as the first priority, charging second.
2. Hybrid: The inverter runs the hybrid mode. Solar energy to power the load is the first priority, charging is the second priority, and excess energy is fed to the grid.

https:chinagode.com

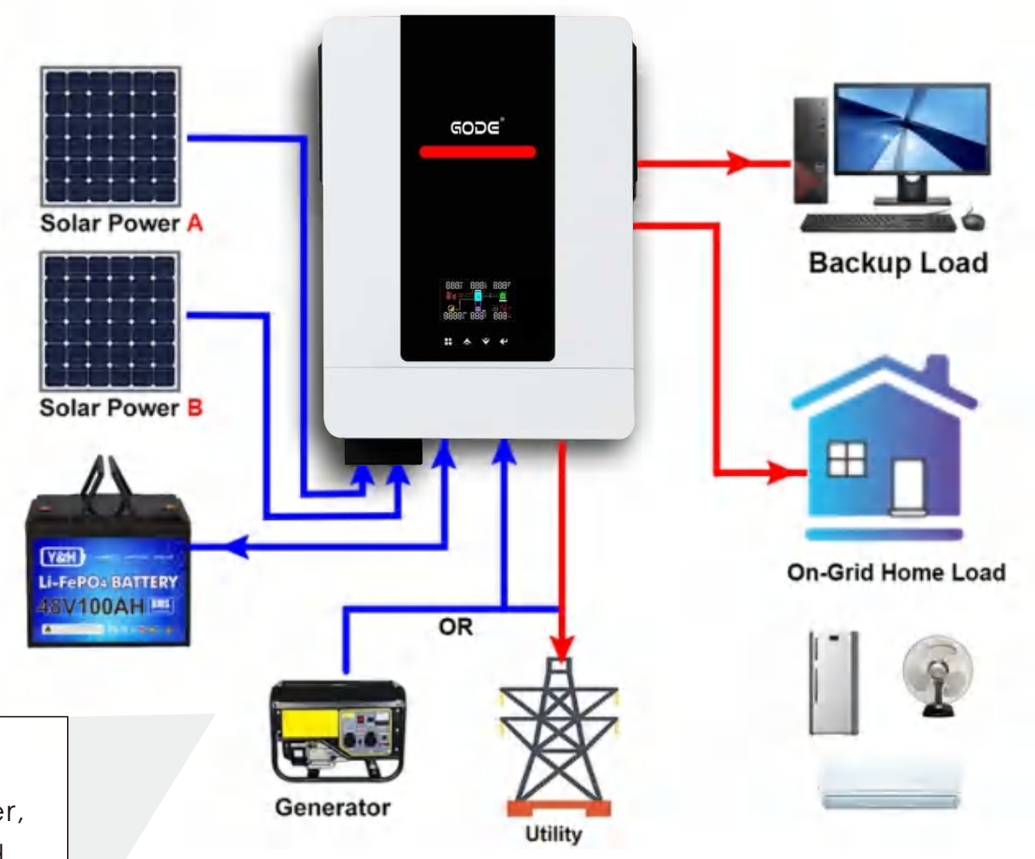
PRODUCT FEATURES

- Pure sine wave solar inverter(on/off Grid) Inverter running without battery
- Output power factor 1.0
- High PV input voltage range(90~500VDC)
- WIFI&GPRS available for IOS and Android
- Built-in anti-dusk kit for harsh environment
- Built-in 160A(for 8.2KW)/180A(for 10.2KW)MPPT solar charge
- Smart battery charge design to optimize battery life
- One-click restoration to factory Settings
- Dual output
- Built-in Lithium battery automatic activation
- Touch button

Versatile

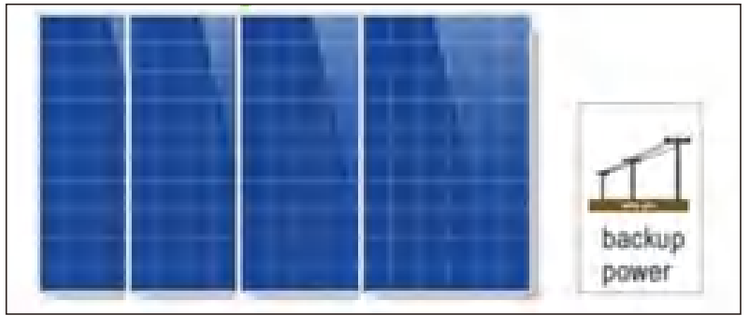
MPPT inverter charger pure sine wave (optional 8.2Kw 10.2Kw) for RV, camper, boat, family emergency, etc. A variety of home and office loads can be used, including ovens, rice cookers, lamps, TVs, fans, and other AC loads.

CONNECTION DIAGRAM

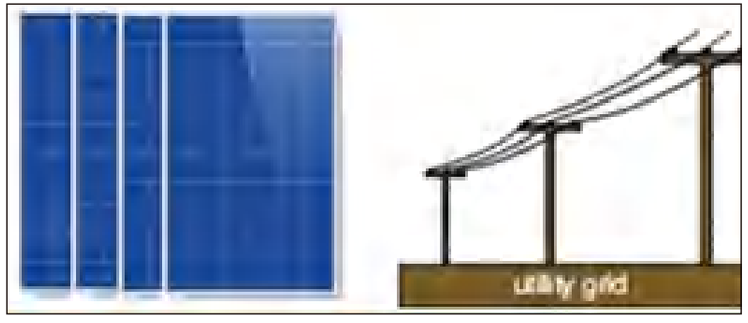


4 CHARGER SOURCE PRIORITY CAN BE CHOOSE

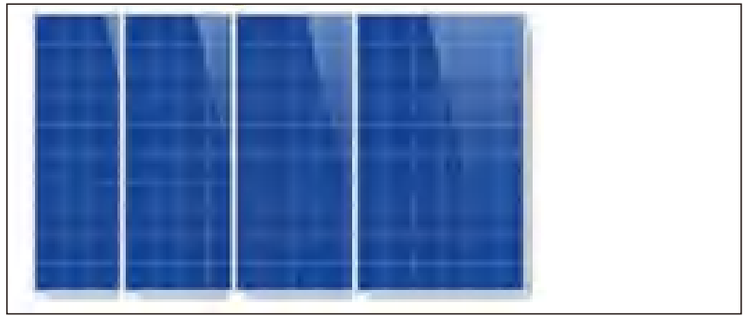
01 Utility/AC Power Charge battery first



02 Solar power Charge battery first



03 Solar+Utility Charge battery at the same time



04 Only solar charge battery

Four modes can be selected when charging the battery:

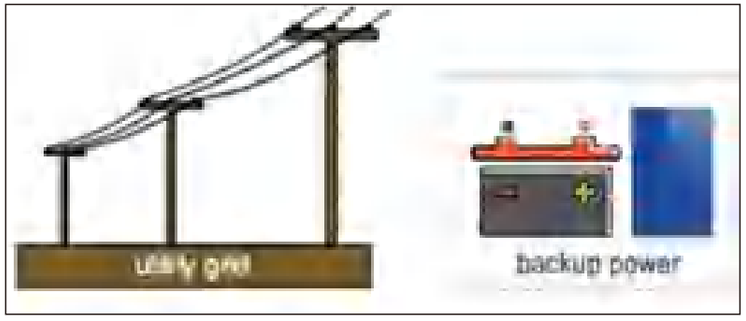
Utility first: Utilities have battery charging as the first priority source, followed by solar energy.

Solar first: Solar energy has battery charging as the first priority source, followed by mains power.

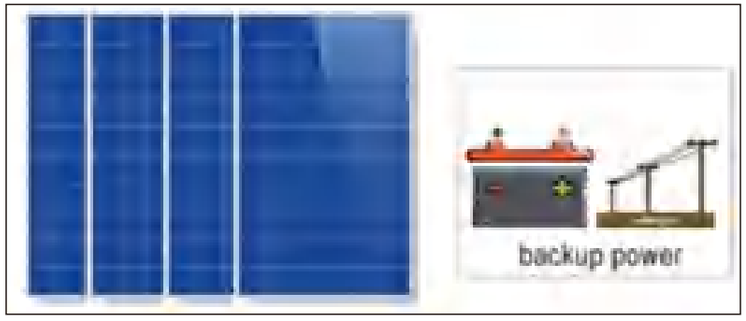
Solar and utility (default): Solar and utility power will charge the battery at the same time.

Solar only: Solar energy as the only charging source battery.

3 OUTPUT SOURCE PRIORITY CAN BE CONFIGURE



01 Utility Source Power Load as first priority.



02 Solar power Power Load First.

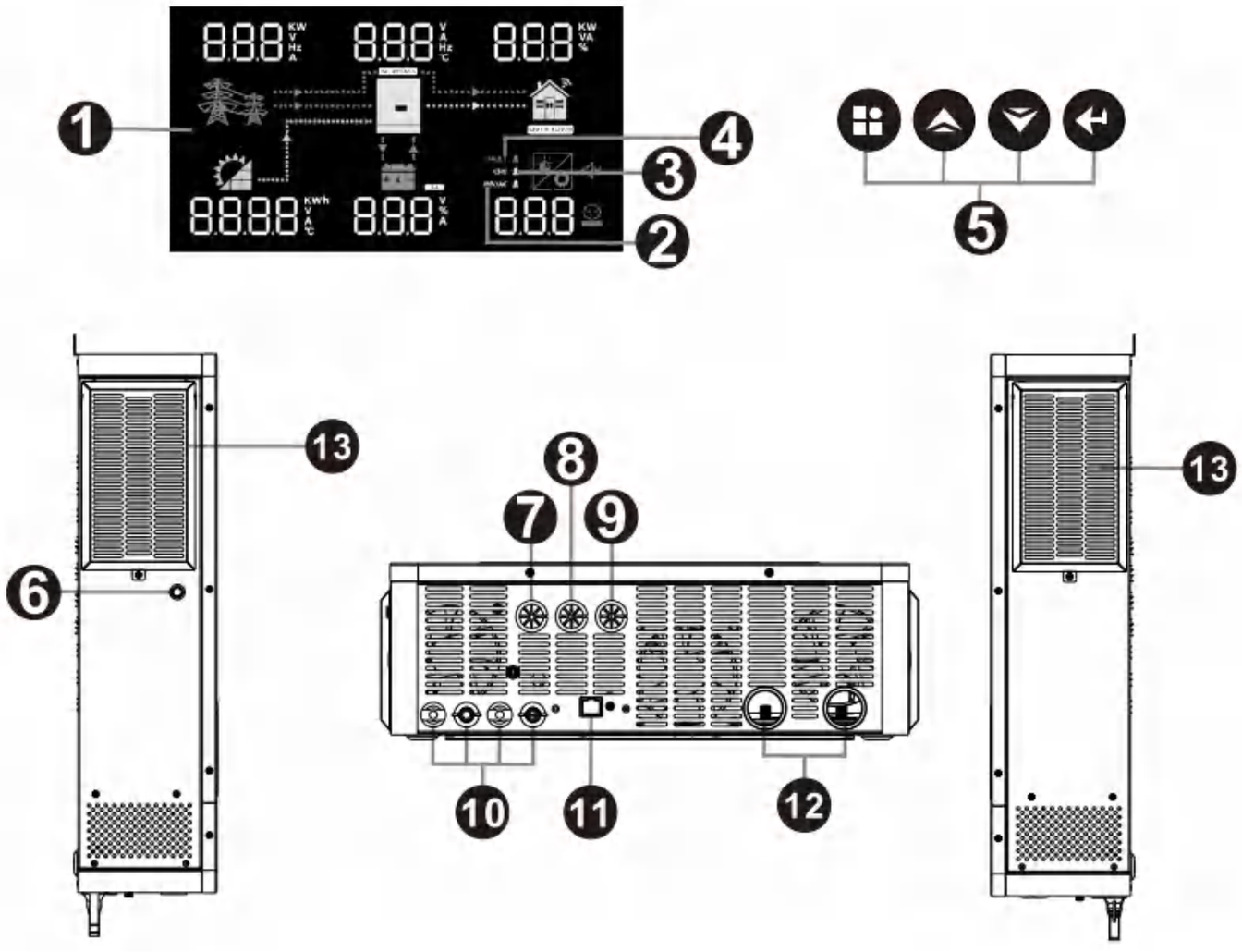
03 Solar+battery Power load at the same time.

Three output modes can be selected:

Utility first (default): The utility will power the load first, then solar, battery power.

Solar first: Solar power for the load is the number one priority. If solar energy is not enough to power all connected loads, the utility company will power the loads at the same time, followed by battery power.

SBU priority: Solar energy provides power to the load as the first priority. If solar energy is not enough to power all connected loads, battery energy will power the loads at the same time.



PRODUCT STRUCTURE

NO	Function
①	LCD display
②	Status indicator
③	Charging indicator
④	Fault indicator
⑤	Touch Function buttons
⑥	Power on/off switch
⑦	AC input
⑧	Main output
⑨	Second output
⑩	PV1 and PV2 input
⑪	RS-232/WIFI/Remove LCD communication port
⑫	Battery input
⑬	Anti dust kit

PRODUCT DESCRIPTION

Fast charging efficiency

High quality solar panels, fast full charge, sunlight charging conversion efficiency up to 20%.

Multiple Charging Ports

The solar system is equipped with multiple charging ports and provides two different voltage mode outputs, AC and DC, which can power multiple devices at the same time.

LED display

Night view display, so that the operation is clearer, avoid operation errors can be dealt with in time.

Large Capacity Is More Durable

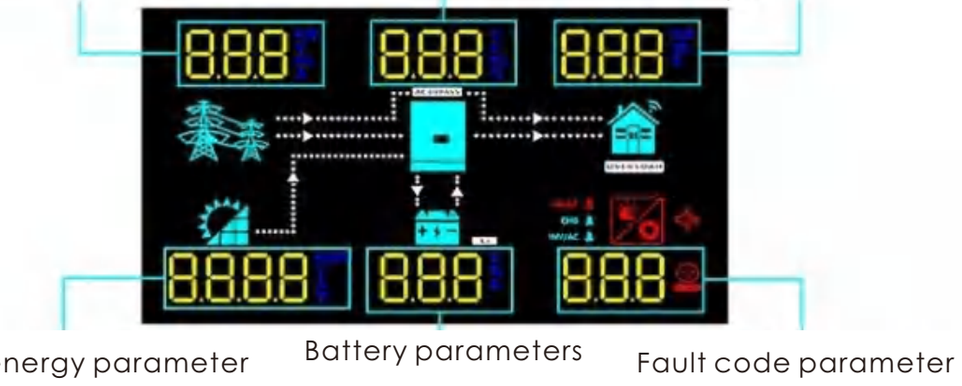
Upgraded high-capacity, 365 days of range with recharge and discharge protection.

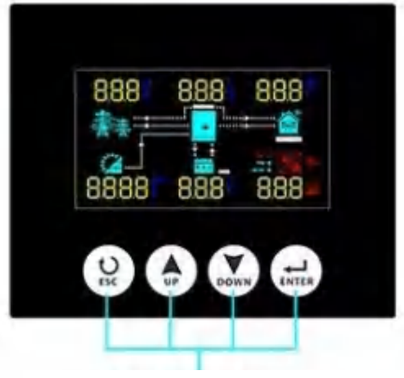
REMOTE APP

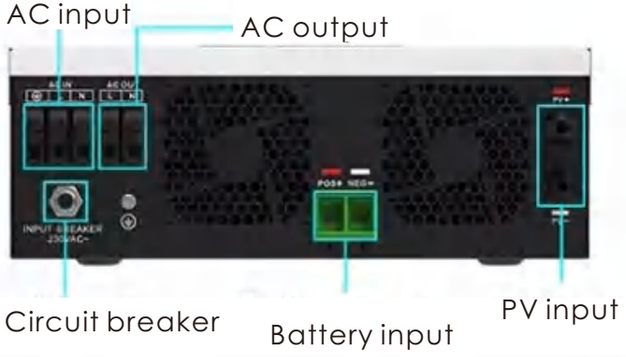
WiFi / GPRS remote monitoring(optional)

COLOR DISPLAY PARAMETERS

- INPUT (AC+PV)+Charge value
- Output+Discharge value
- Inverter working instructions
- Battery information
- Warning and fault codes
- Load provided by public power







PRODUCT SPECIFICATION

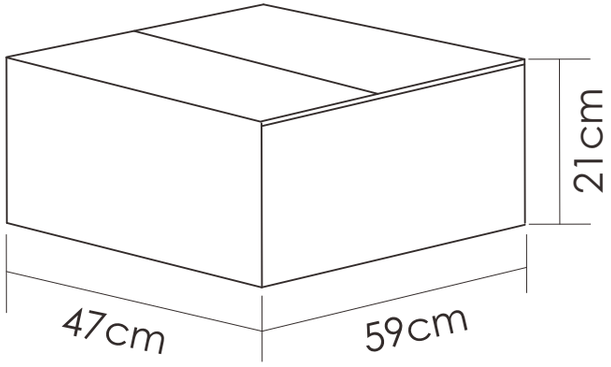
Model	STM82248
Rated Output Power	8200W
Nominal Operating Voltage	360VDC
Maximum PV Array Open Circuit Voltage	500VDC
MPPT Operating Voltage	90~450VDC
Full Load MPPT Operating Voltage	360~450VDC
Number Of MPPT/Maximum Input Current	1/27A
Maximum PV Charging Current	160A
Feed-In Grid Voltage	230VAC, 50/60Hz
Nominal Output Voltage	230VAC, 50/60Hz
Maximum Main Load	8200W
Maximum Second Load	2733W
Main Load Cut Off/Return Voltage	44V/52VDC
Nominal Input Voltage	230VAC, 50/60Hz
Maximum AC Charging Current	140A
Battery Voltage	48VDC
Communication Port	RS232/GPRS/WIFI
Product Size	390x530x130mm
Net Weight	14.2kg
Warranty	3 Years

PRODUCT SPECIFICATION

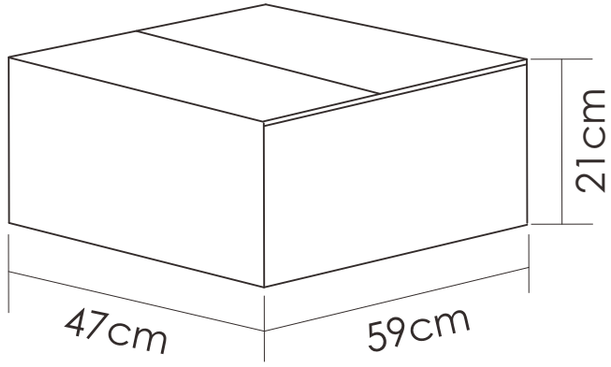
Model	STM102248
Rated Output Power	10200W
Nominal Operating Voltage	360VDC
Maximum PV Array Open Circuit Voltage	500VDC
MPPT Operating Voltage	90~450VDC
Full Load MPPT Operating Voltage	360~450VDC
Number Of MPPT/Maximum Input Current	1/27A
Maximum PV Charging Current	160A
Feed-In Grid Voltage	230VAC, 50/60Hz
Nominal Output Voltage	230VAC, 50/60Hz
Maximum Main Load	10200W
Maximum Second Load	3400W
Main Load Cut Off/Return Voltage	44V/52VDC
Nominal Input Voltage	230VAC, 50/60Hz
Maximum AC Charging Current	140A
Battery Voltage	48VDC
Communication Port	RS232/GPRS/WIFI
Product Size	390x530x130mm
Net Weight	14.5kg
Warranty	3 Years

PACKAGING SPECIFICATION

P/N	Power	Packing Size(CM)			PCS/CTN	CBM/CTN	G.W/CTN(KGS)
		L	W	H			
STM82248	8200W	55.00	70.00	23.00	1	0.0886	15.80
STM102248	10200W	55.00	70.00	23.00	1	0.0886	16.00



STM82248



STM102248

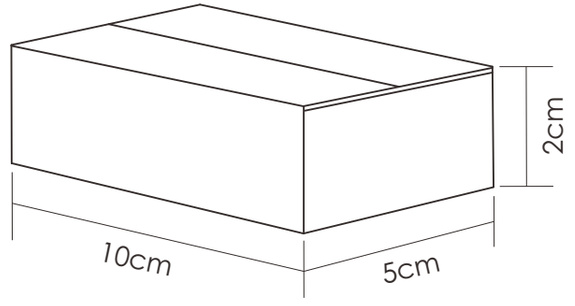
PRODUCT SPECIFICATION

Energy Storage Inverter Data Miner

Model	STDLWFPP
Rated Valtage	5V-12VDC
Maximum Current	0.8A(DC5V)
Data Input Mode	RS232
Data Output Mode	Wi-Fi
Operating Frequency	2.412-2.484GHz
Communication Distance	100m(Open Environment)
Data Upload Cycle	5 Minute
Operating Temperature	-30~85℃
Product Size	75x40x15mm
Package Size	100x50x20mm
Net Weight	0.067kg
Warranty	3 years

PACKAGING SPECIFICATION

P/N	Power	Packing Size(CM)			PCS/CTN	CBM/CTN	G.W/CTN(KGS)
		L	W	H			
STDLWFPP		10.00	5.00	2.00	1	0.0001	0.09



MOUNTING THE UNIT

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 0°C and 55°C 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.
- Suitable for mounting on concrete or other non-combustible surface only.
- Install the unit by screwing two screws. It's recommended to use M4 or M5 screws.