



Grid-connected PV Inverter

SUN-8K-G06-LV-P1

User Manual



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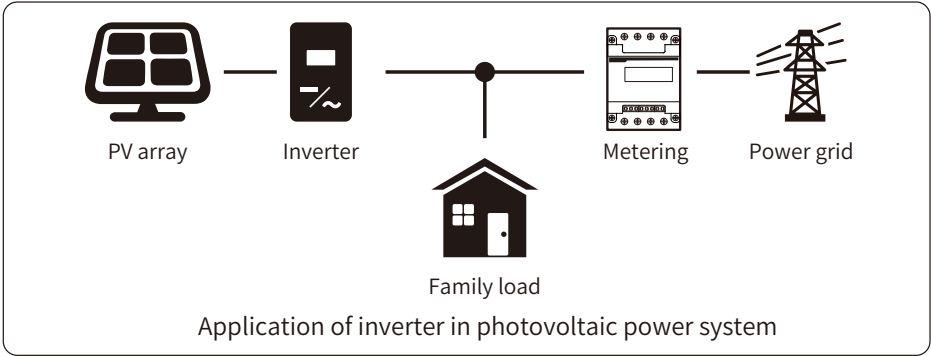
About This Manual

The manual mainly describes the product information, guidelines for installation, operation and maintenance. The manual cannot include complete information about the photovoltaic (PV) system.

How to Use This Manual

Read the manual and other related documents before performing any operation on the inverter. Documents must be stored carefully and be available at all times. **Contents may be periodically updated or revised due to product development. The information in this manual is subject to change without notice.**The latest manual can be acquired via service@deye.com.cn

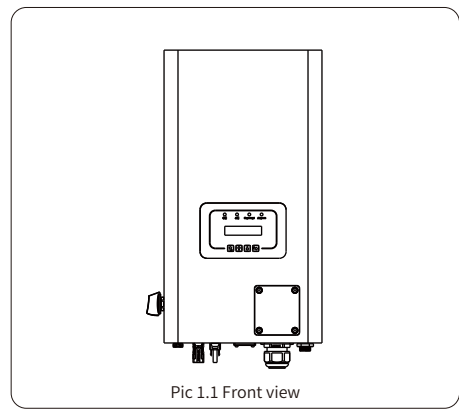
Photovoltaic Grid-connected System



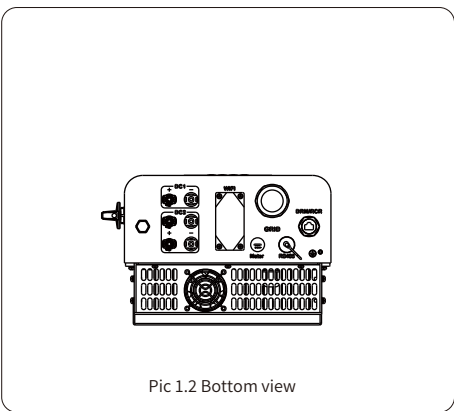
1. Introduction

1.1 Appearance Introduction

On-grid Inverter can convert solar panel DC power into AC power which can directly input to the grid. Its appearance is shown below. These models contain SUN-8K-G06-LV-P1.
The following is collectively referred to as “inverter” .



Pic 1.1 Front view



Pic 1.2 Bottom view

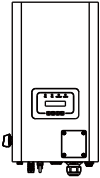
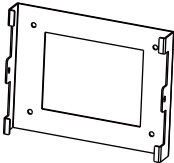
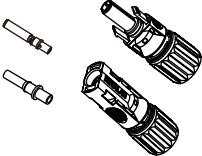
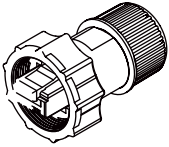
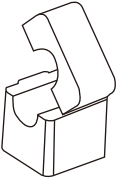
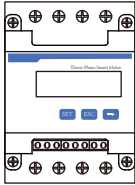
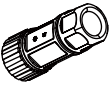
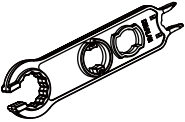
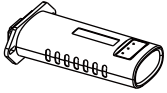
*Note: for some hardware version don't have DRM

1.2 Labels description

Label	Description
	Caution, risk of electric shock symbol indicates important safety instructions, which if not correctly followed, could result in electric shock.
	The DC input terminals of the inverter must not be grounded.
	CE mark of conformity
	Please read the instructions carefully before use.
	Symbol for the marking of electrical and electronics devices according to Directive 2002/96/EC. Indicates that the device, accessories and the packaging must not be disposed as unsorted municipal waste and must be collected separately at the end of the usage. Please follow Local Ordinances or Regulations for disposal or contact an authorized representative of the manufacturer for information concerning the decommissioning of equipment.

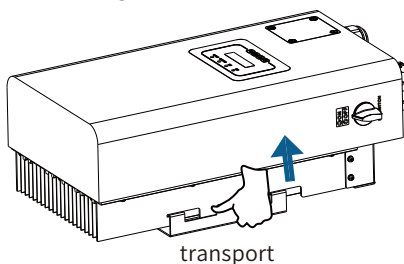
1.3 Parts list

Please check the following table, to see whether all the parts are included in the package:

 Grid-tied PV String Inverter x1	 Wall mounting bracket x1	 Mounting stainless steel screws M4×12 x5
 DC+/DC- Plug connectors including metal terminal xN	 Stainless steel anti-collision bolt M6×60 x4	 DRM connector (optional) x1
 *Sensor Clamp(optional) x 3	 Meter(optional) x 1	 HJA4 Core Wire Female Connector - Screw Crimp x1
 User manual x1	 Solar Photovoltaic Connector Special Spanner x1	 Datalogger (optional) x1

1.4 Product handling requirements

Lift the inverter out of the packing box and transport it to designated installation location.



CAUTION:

Improper handling may cause personal injury!

- Arrange an appropriate number of personnel to carry the inverter according to its weight, and installation personnel should wear protective equipment such as anti-impact shoes and gloves.
- Placing the inverter directly on a hard ground may cause damage to its metal enclosure. Protective materials such as sponge pad or foam cushion should be placed underneath the inverter.
- Move the inverter by one or two people or by using a proper transport tool.
- Move the inverter by holding the handles on it. Do not move the inverter by holding the terminals.

2. Safety warnings and instructions

Improper use may result in potential electric shock hazards or burns. This manual contains important instructions that should be followed during installation and maintenance. Please read these instructions carefully before use and keep them for future reference.

2.1 Safety signs

Safety symbols used in this manual, which highlight potential safety risks and important safety information, are listed as follows:



Warning:

Warning symbol indicates important safety instructions, which if not correctly followed, could result in serious injury or death.



Shock Hazard:

Caution, risk of electric shock symbol indicates important safety instructions, which if not correctly followed, could result in electric shock.



Safety Hint:

Note symbol indicates important safety instructions, which if not correctly followed, could result in some damage or the destruction of the inverter.



High Temperature Hazard:

Caution, hot surface symbol indicates safety instructions, which if not correctly followed, could result in burns.

2.2 Safety instructions



Warning:

Electrical installation of the inverter must conform to the safety operation rules of the country or local area.



Warning:

Inverter adopts non-isolated topology structure, hence must insure DC input and AC output are electrical isolated before operating the inverter.



Shock Hazard:

Prohibit disassembling inverter case, there existing shock hazard, which may cause serious injury or death, please ask qualified person to repair.



Shock Hazard:

When PV module is exposed to sunlight, the output will generate DC voltage. Prohibit touching to avoid shock hazard.



5min

Shock Hazard:

While disconnect the input and output of the inverter for maintenance, please waits for at least 5 mins until the inverter discharge the remnant electricity.



High Temperature Hazard:

Local temperature of inverter may exceed 80°C while under operating. Please do not touch the inverter case.

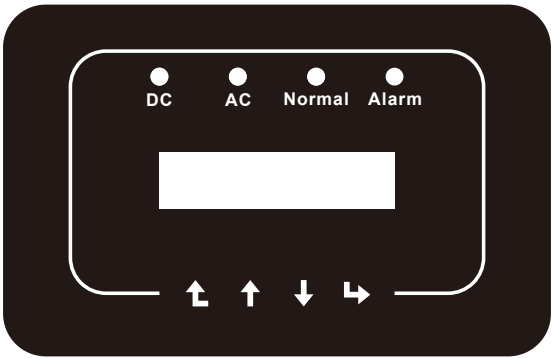
2.3 Notes for using

The three phase string power inverter is designed and tested under related safety regulations. It can ensure the personal safety of the user. But as a electric device, it may cause shock or injury by incorrect operation. Please operate the unit under below requirements:

1. Inverter should be installed and maintained by qualified person under local standard regulations.
2. Must disconnect the AC side first, then disconnect DC side while doing installation and maintenance, after that, please wait at least 5 mins to avoid getting shocked.
3. Local temperature of the inverter may exceed 80 °C while under operating. Do not touch to avoid getting injured.
4. All electrical installation must be in accord with local electrical standards, and after obtaining the permission of the local power supply department, the professionals can connect the inverter to the grid.
5. Please take appropriate anti-static measure.
6. Please install where children can not touch.
7. The steps to start the inverter: 1) switch on the AC side circuit breaker, 2) Switch on the DC side circuit breaker of the PV panel. 3) Turn on the DC switch of the inverter.
The steps to stop the inverter: 1) switch off the AC side circuit breaker, 2) switch off the DC side circuit breaker of the PV panel. 3) Turn off the DC switch of the inverter.
8. Don't insert or remove AC and DC terminals when the inverter is in normal operation.
9. The DC input voltage of the inverter must not exceed the maximum value of the model.

3. Operation Interface

3.1 Interface View



Pic 3.1 Front panel display

3.2 Status Indicator

There are four LED status indicator lights in the front panel of the inverter. Please see table 3.1 for details.

Indicator	status	Explanation
DC	on	Inverter detects DC input
	off	Low DC input voltage
AC	on	Grid Connected
	off	Grid Unavailable
NORMAL	on	Under normal operating
	off	Stop operating
ALARM	on	Detected faults or report faults
	off	Under normal operating

Table 3.1 Status indicator lights

3.3 Buttons

There are four keys in the front panel of the Inverter(from left to right): Esc, Up, Down and Enter keys. The keypad is used for:

- Scrolling through the displayed options (the Up and Down keys);
- Access to modify the adjustable settings (the Esc and Enter keys).



3.4 LCD Display

The two-line Liquid Crystal Display (LCD) is located on the front panel of the Inverter, which shows the following information:

- Inverter operation status and data;
- Service messages for operator;
- Alarm messages and fault indications.

4. Product installation

4.1 Select installation location

To select a location for the inverter, the following criteria should be considered:

WARNING: Risk of fire

- Do not install the inverter in areas containing highly flammable materials or gases.
- Do not install the inverter in potentially explosive atmospheres.
- Do not install in small closed spaces where air can not circulate freely. To avoid overheating, always make sure the flow of air around the inverter is not blocked.
- Exposure to direct sunlight will increase the operational temperature of the inverter and may cause output power limiting. It is recommended that inverter installed to avoid direct sunlight or raining.
- To avoid overheating ambient air temperature must be considered when choosing the inverter installation location. It is recommended that using a sun shade minimizing direct sunlight when the ambient air temperature around the unit exceeds 104°F/40°C.



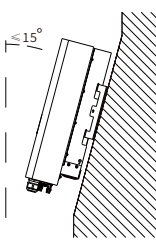
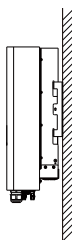
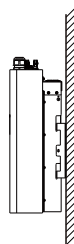
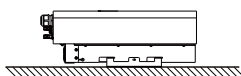
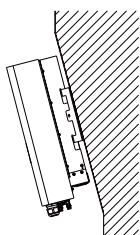
Pic 4.1 Recommended installation place

- Install on a wall or strong structure capable of bearing the weight.
- Install vertically with a maximum incline of $+15^\circ$. If the mounted inverter is tilted to an angle greater than the maximum noted, heat dissipation can be inhibited, and may result in less than expected output power.
- If install more than one inverter, must leave at least 500mm gap between each inverter. And two adjacent inverters are also separated by at least 500 mm. And must install the inverter at the place where children cannot touch. Please see picture 4.3.
- Consider whether the installation environment is helpful to see the inverter LCD display and indicator status clearly.
- Must offer a ventilate environment if inverter installed in the airtight house.

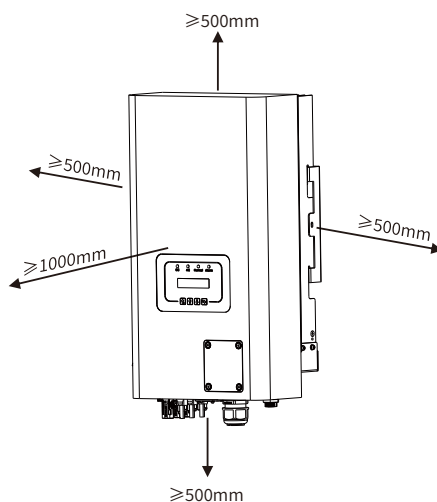


Safety Hint:

Do not place or store any items next to the inverter.



Pic 4.2 Installation Angle



Pic 4.3 Installation Gap

4.2 Installations Tools

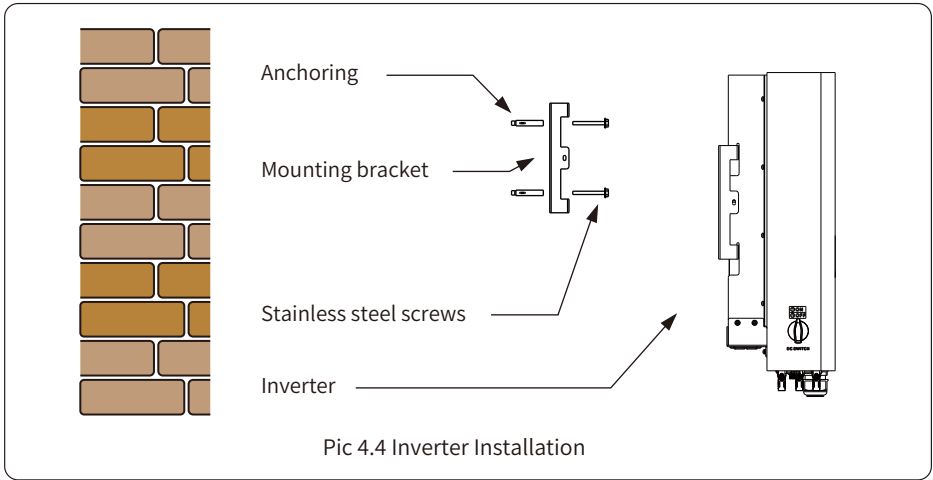
Installation tools can refer to the following recommended ones. Also, use other auxiliary tools on site.

table 4-1 Tool specification

Protective goggles	Anti-dust mask	Earplugs	Work gloves	Work shoes	Utility Knife	Slotted screwdriver
Cross screwdriver	Percussion drill	Pliers	Marker	Level	Rubber hammer	socket wrenches set
Anti-static wrist strap	Wire cutter	Wire stripper	Hydraulic pliers	Heat gun	Crimping tool4-6mm ²	Solar connector wrench
Multimeter ≥1100 Vdc	RJ45 crimping plier	Cleaner	Spanner			

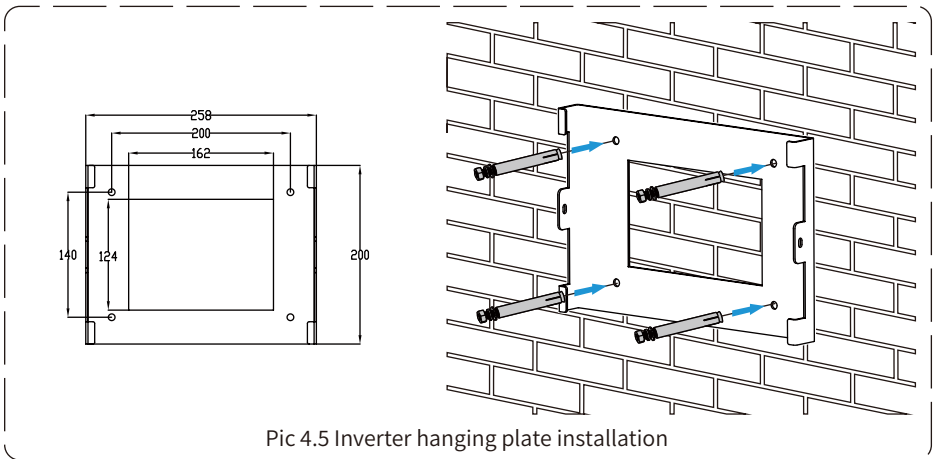
4.3 Inverter Installation

The inverter is designed according to the wall mounted type installation, please use the wall mounted (the brick wall of the expansion bolt) when installing.

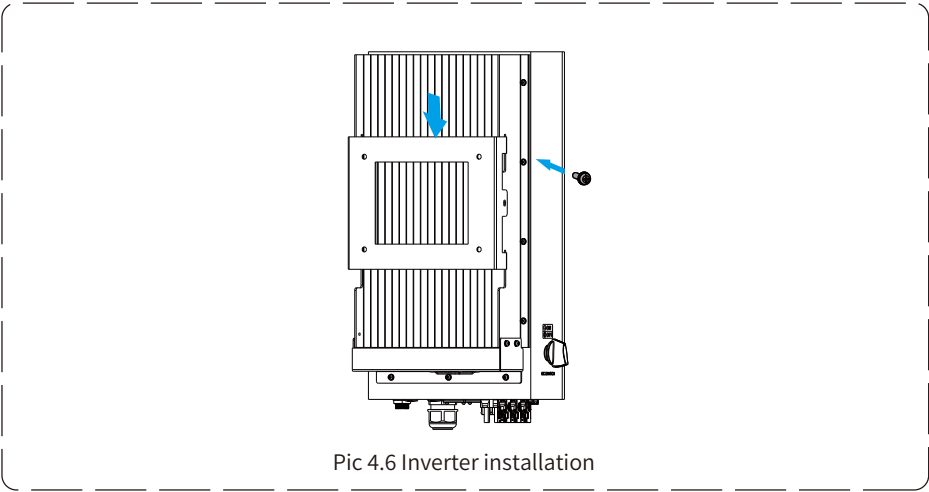


Procedure shows below:

1. Locate on the appropriate wall according to the bolt position on the mounting bracket, then mark the hole. On the brick wall, the installation must be suitable for the expansion bolt installation.



- 2. Ensure that the position of the installation holes on the wall is in accordance with the mounting plate, and the mounting rack is vertically placed.
- 3. Hang the inverter to the top of the mounting rack and then use the M4 screw in the accessory to lock inverter heat sink to the hanging plate, to ensure that the inverter will not move.



5 Electrical Connection

5.1 PV Module Selection:

When selecting proper PV modules, please be sure to consider below parameters:

- 1) Open circuit Voltage (Voc) of PV modules not exceeds max. PV array open circuit voltage of inverter.
- 2) Open circuit Voltage (Voc) of PV modules should be higher than min. start voltage.
- 3) The PV modules used to connected to this inverter shall be Class A rating certified according to IEC 61730.

Inverter Model	SUN-8K-G06-LV-P1
PV Input Voltage	500V (250V-800V)
PV Array MPPT Voltage Range	200-700V
No. of MPP Trackers	2
No. of Strings per MPP Tracker	1+2

5.2 DC input terminal connection

- 1. Switch the Grid Supply Main Switch(AC)OFF.
- 2. Switch the DC Isolator OFF.
- 3. Assemble PV input connector to the inverter.



Warning:
When using PV modules, please ensure the PV+ & PV- of solar panel is not connected to the system ground bar.



Safety Hint:
Before connection, please make sure the polarity of the output voltage of PV array matches the “DC+” and “DC-” symbols.



Warning:
Before connecting inverter, please make sure the PV array open circuit voltage is within the 800V of the inverter.



Pic 5.1 DC+ male connector



Pic 5.2 DC- female connector



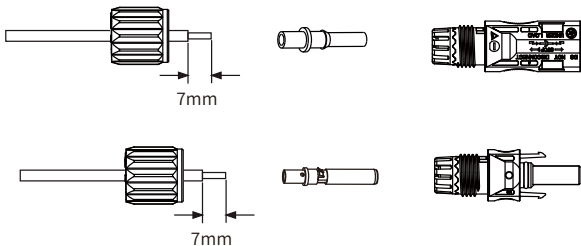
Safety Hint:
Please use approved DC cable for PV system.

Cable type	Cross section (mm ²)	
	Range	Recommended value
Industry generic PV cable (model: PV1-F)	2.5~4.0 (12~10AWG)	2.5(12AWG)

Table 5.1 DC Cable Specifications

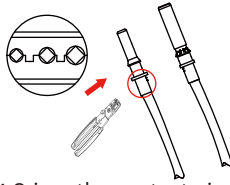
The steps to assemble the DC connectors are listed as follows:

- a) Strip off the DC wire about 7mm, disassemble the connector cap nut (see picture 5.3).



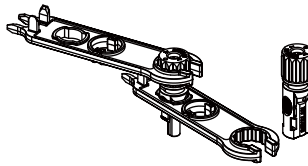
Pic 5.3 Disassemble the connector cap nut

b) Crimping metal terminals with crimping pliers as shown in picture 5.4.



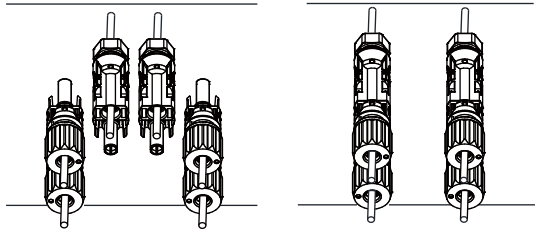
Pic 5.4 Crimp the contact pin to the wire

c) Insert the contact pin to the top part of the connector and screw up the cap nut to the top part of the connector. (as shown in picture 5.5).



Pic 5.5 connector with cap nut screwed on

d) Finally insert the DC connector into the positive and negative input of the inverter, shown as picture 5.6.



Pic 5.6 DC input connection

Warning:



Sunlight shines on the panel will generate voltage, high voltage in series may cause danger to life. Therefore, before connecting the DC input line, the solar panel needs to be blocked by the opaque material and the DC switch should be 'OFF', otherwise, the high voltage of the inverter may lead to life-threatening conditions.

Warning:



Please use its own DC power connector from the inverter accessories. Do not interconnect the connectors of different manufacturers. Max. DC input current should be 20A. if exceeds, it may damage the inverter and it is not covered by Deye warranty.

5.3 AC input terminal connection

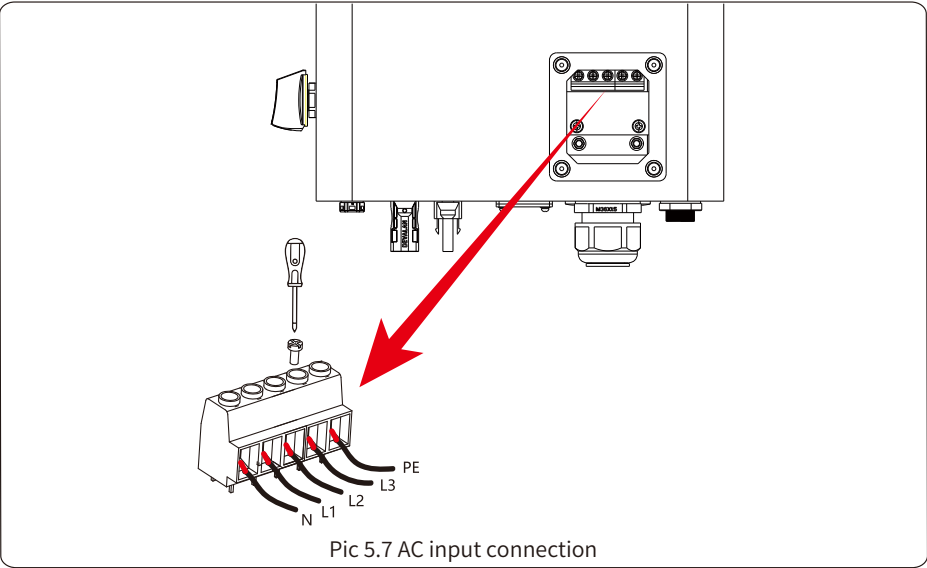
Do not close the DC switch after the DC terminal is connected. Connect the AC terminal to the AC side of the inverter, the AC side is equipped with Three phase AC terminals that can be conveniently connected. Flexible cords are recommended for easy installation. The are as shown in Table 5.2.



Warning:
Prohibit using a single circuit breaker for multiple inverters, prohibit the connection of load between inverter circuit breakers.

Model	Recommend copper cable	AWG	Breaker	Max cable length
SUN-8K-G06-LV-P1	2.5mm ²	12	30A/400V	Outside cable (3L+N+PE)20m

Table 5.2 Cable information



Pic 5.7 AC input connection



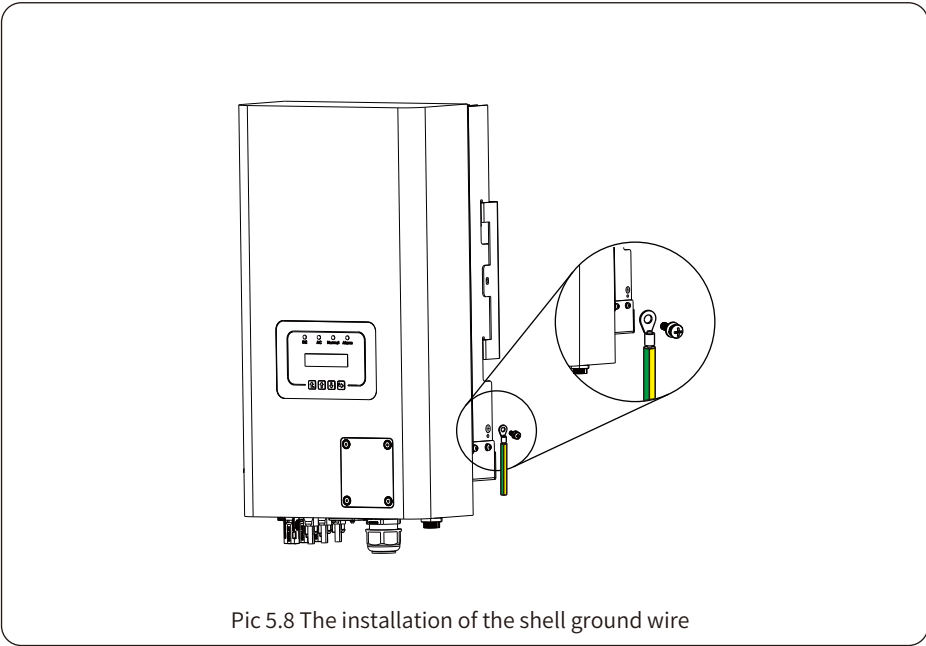
Warning:
Be sure that AC power source is disconnected before attempting to wire it to the unit.

1. Before making Grid port connection, be sure to turn off AC baeaker or disconnecter first.
2. Remove insulation sleeve 10mm length, unscrew the bolts, insert the wires according to polarities indicated on the terminal block and tighten the terminal screws. Make sure the connection is complete.

3. Then, insert AC output wires according to polarities indicated on the terminal block and tighten terminal. Be sure to connect corresponding N/L1/L2/L3 and PE wires to related terminals as well. (as shown in picture 5.7).
4. Make sure the wires are securely connected.

5.4 The connection of the ground line

Good grounding is good for resisting surge voltage shock and improving EMI performance. Therefore, before connecting AC, DC and communication cables, you need to ground the cable firstly. For a single system, just ground the PE cable. For multiple machine systems, all PE cables of the inverter need to be connected to the same grounding copper platoon to ensure the equipotential connection. The installation of the shell ground wire is shown as picture 5.8. The external protective earthing conductor is made of the same metal as the phase conductor.



Model	Wire Size	Cable(mm²)	Torque value(max)
SUN-8K-G06-LV-P1	12AWG	2.5mm²	8.5Nm



Warning:

Inverter has built-in leakage current detection circuit, The type A RCD can be connected to the inverter for protection according to the local laws and regulations. If an external leakage current protection device is connected, its operating current must be equal to 300 mA or higher, otherwise inverter may not work properly.

5.5 Max. over current protection device

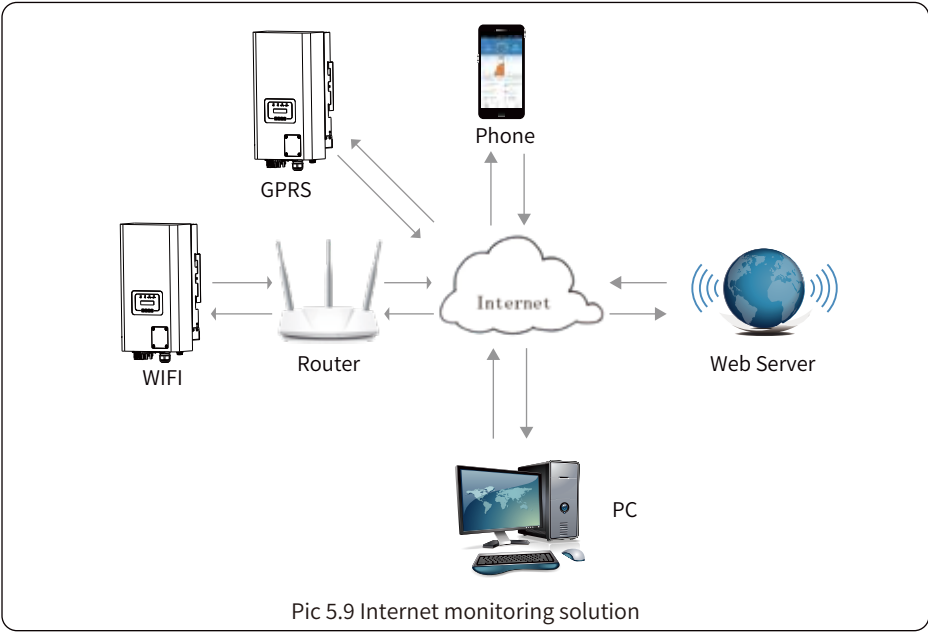
In order to protect the inverter AC connection, it is recommended to install a circuit breaker to prevent overcurrent. See table 5.3 below.

Inverter	Rated output voltage(V)	Rated output current(A)	Current for protection device(A)
SUN-8K-G06-LV-P1	220/230	21/20.1A	30A

Table 5.3 Recommended current protector specifications

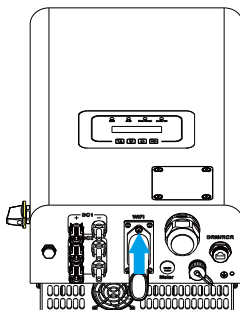
5.6 Inverter monitoring connection

Inverter has the function of wireless remote monitoring. The inverter with Wi-Fi function is equipped with Wi-Fi Plug to connect the inverter and network. Wi-Fi Plug's operation, installation, Internet access, APP downloading and other processes are detailed in the instructions.



5.7 Installation of datalogger

When installing the WiFi stick, tear off the sealing strip on the inverter. Insert the datalogger into the interface and fix it with a screw. The configuration of the datalogger needs to be performed after various electrical connections have been completed and the inverter DC power on. When the inverter is on the DC power, it is determined whether the datalogger is normally electrified (The LED light shines out of the shell).



Pic 5.10 Datalogger installation diagram

5.8 Configuration of datalogger

For the configuration of datalogger, please refer to illustrations of the datalogger.

6. Startup and Shutdown

Before starting the inverter, make sure that the inverter can meet the following conditions, otherwise it may result in fire or damage to the inverter. In this case, we do not undertake any responsibility. At the same time, to optimize the system configuration, it is recommended that the two inputs be connected to the same number of photovoltaic modules.

- a). The maximum open circuit voltage of each set of photovoltaic modules shall not exceed 800Vdc under any conditions.
- b). Each input of the inverter better use the same type of photovoltaic module in series.
- c). Total output power of PV shall not exceed the maximum input power of inverter, each photovoltaic modules shall not exceed the rated power of each channel.

6.1 Start up the inverter

When starting up the three phase string inverter, should follow steps below:

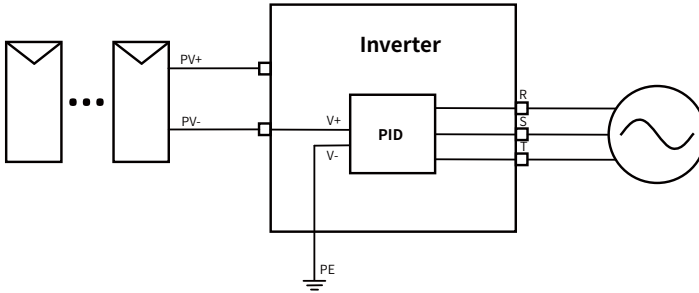
1. Starting switch on the AC breaker.
2. Turn on the DC switch of the photovoltaic module, and if the panel provides sufficient starting voltage and power, the inverter will start.
3. The inverter will first check the internal parameters and the grid parameters, while the liquid crystal will show that the inverter is self-checking.
4. If the parameter is within acceptable range, the inverter will generate energy. NORMAL indicator light is on.

6.2 Inverter Shutdown

Must follow below steps while shutting down the inverter:

1. Switch off the AC breaker.
2. Wait for 30 seconds, turn off the DC switch (if any), or simply disconnect the DC input connector. The inverter will close the LCD and all LED within two minutes.

6.3 Anti-PID Function(Optional)



The Anti-PID module repairs the PID effect of the PV module at night. The PID module always runs when connected to AC.

If maintenance is required and turn off the AC switch can disable the Anti-PID function.



Warning:

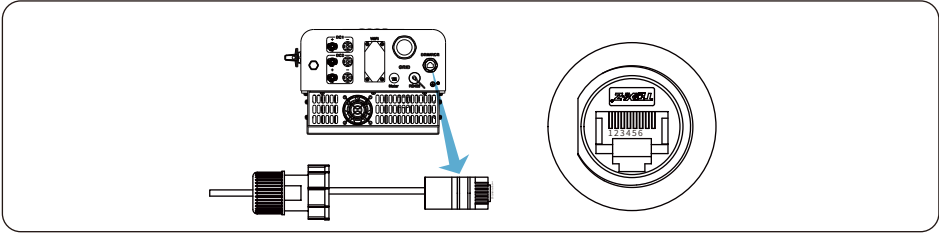
The PID functionality is automatic. When the DC bus voltage is below 50VDC, the PID module will create 450VDC between the PV and ground. No control and equipment are required.



Warning:

If you need to maintain the inverter, Please turn off the AC switch first, then turn off the DC switch, and wait 5 minutes before you do other operations.

6.4 DRM(RCR) wiring diagram(Optional)

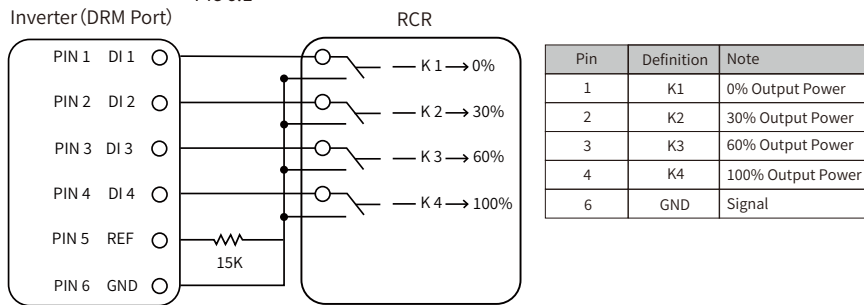
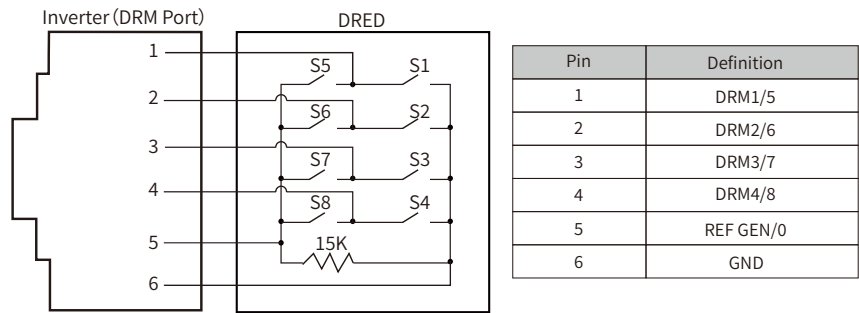


"AU"/"NZ": Demand Response Modes(DRMs)

In Australia and New Zealand, the inverter supports the demand response modes as specified in the standard AS/NZS 4777.2 as shown in Pic 6.1.

"DE": Ripple Control Receiver (RCR)

In Germany, the grid company uses the Ripple Control Receiver to convert the grid dispatching signal and send it as a dry contact signal.The inverter can control power output according to the local preset instructions as shown in Pic 6.2.



6.5 LCD night power supply(Optional)

This function need adding night power PCB board which using AC power to supply the LCD screen and data logger,then the inverter can upload consumption power data to the cloud platform during night. This feature is optional.

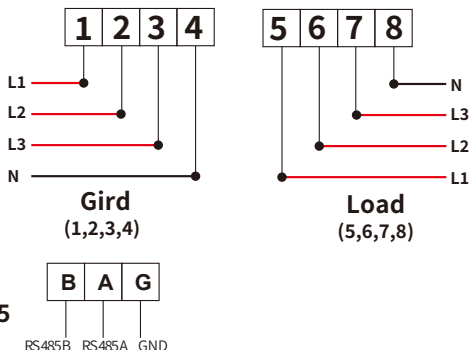
7. Zero-export function via energy meter

There're several usable models of smart meters for this series inverter.Pic 7.6,7.8,7.14,7.16 is CT Type meters,this Type meter can measure large current on each phase.For example,SDM630MCT 40mA(grid each phase current < 200A),DTSU666 250A/50mA(grid each phase current < 250A).If your local current is big,please buy CT type meter. First model is Eastron SDM630-Modbus V2 which is able to measure the Max. 100A current directly, More details please refer to Pic7.1 & 7.4. For the Eastron SDM630 MCT 40mA, it needs external CT with a 40mA secondary output current. More details about the Eastron SDM630 MCT, please refer to Pic 7.5 & 7.8. Also, the CHINT meter DTSU666 5(80) A is also supported, it can measure the Max. 80A current directly. More usable models of DTSU666 series , please refer to Pic 7.9-7.16. Suggest purchasing smart meters from authorized distributors of Deye or directly from Deye.

When you are reading this, we believe that you have completed the connection according to the requirements of chapter 5, if you have been running your inverter at this time, and you want to use the zero-export function, please turn off AC and DC switch of the inverter, and wait for 5 minutes until the inverter completely discharged.Please follow below Picture 7.1 to connect the energy meter.

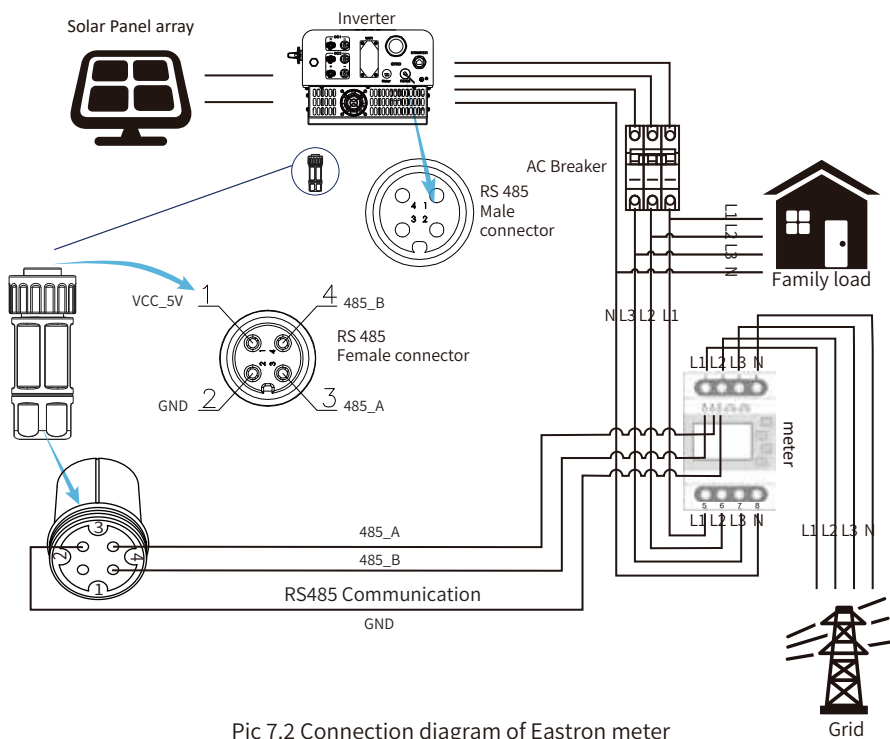
For system wiring diagram, the red line refers to L line (L1, L2, L3), the black line refers to the neutral line (N). Connecting energy meter RS485 cable to inverter's RS485 port. It's recommended to install an AC switch between the inverter and the utility grid, the specs of the AC switch are determined by the power of load.

If there is no integrated DC switch inside the inverter you purchased, we commend you to connect the DC switch. The voltage and current of the switch depend on the PV array you access.



Eastron SDM630-Modbus V2

Pic 7.1 Eastron meter



Pic 7.2 Connection diagram of Eastron meter

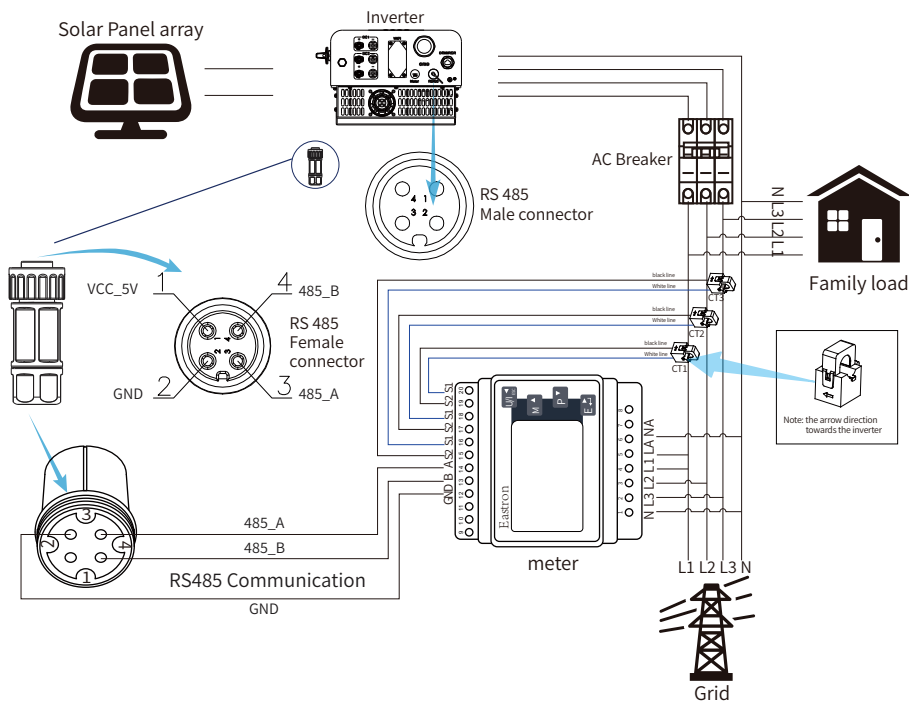
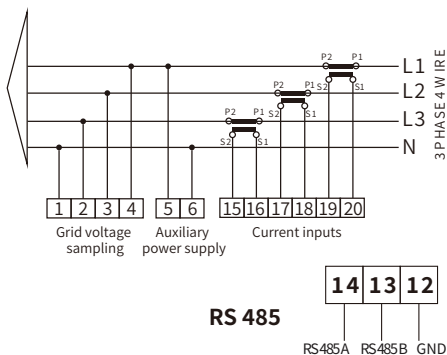


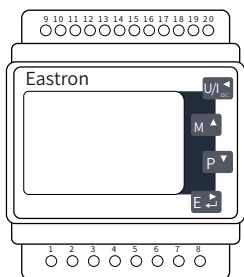
Warning:

In final installation, breaker certified according to IEC 60947-1 and IEC 60947-2 shall be installed with the equipment.

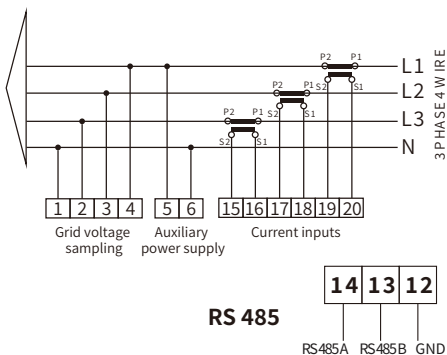
Pic 7.3 Eastron meter

Pic 7.4 Connection diagram of Easton meter

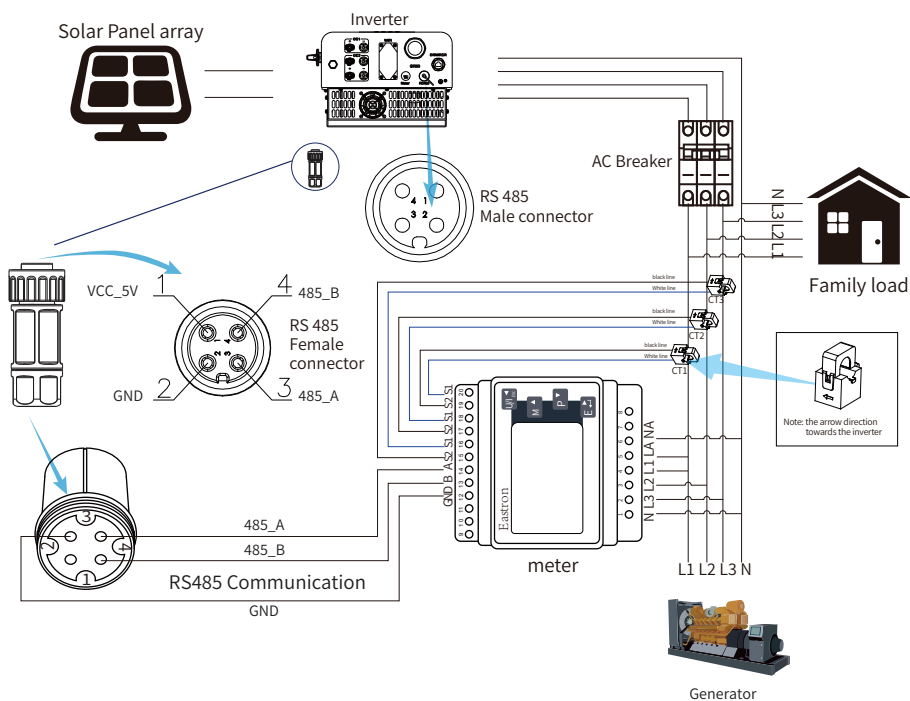




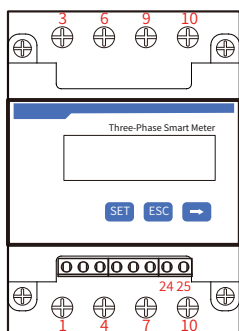
Eastron SDM630MCT



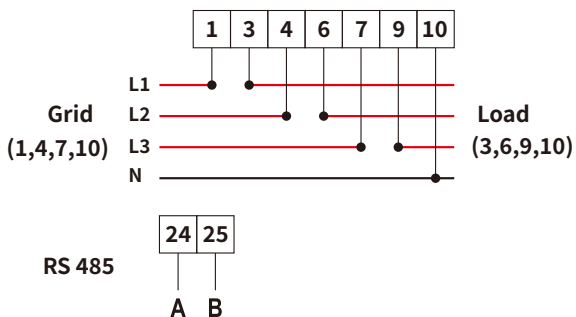
Pic 7.7 Eastron meter



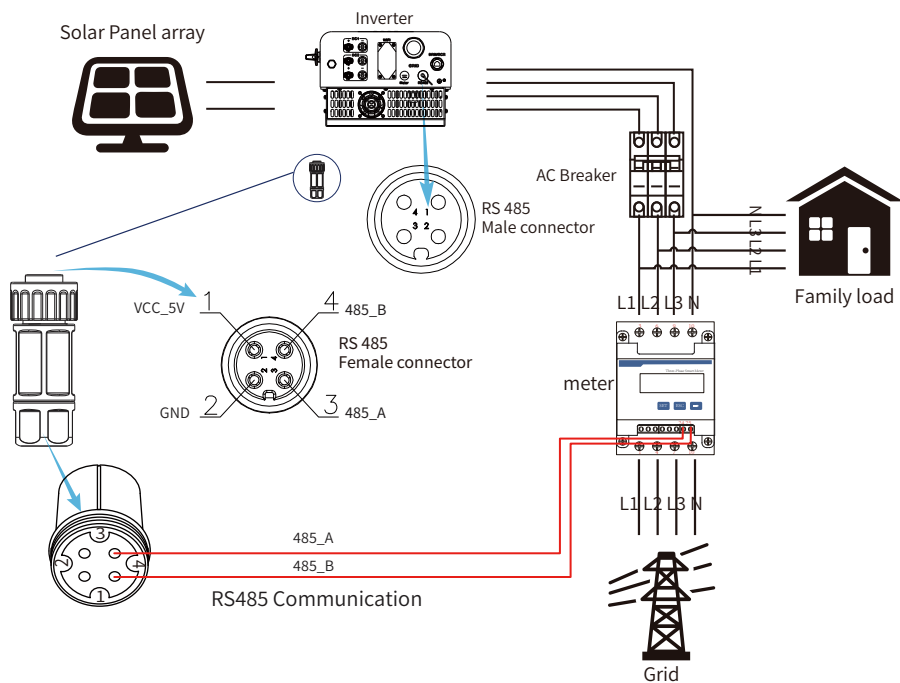
Pic 7.8 Connection diagram of Eastron meter



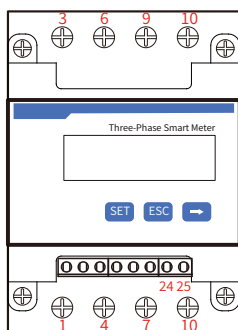
CHINT DTSU666 5(80)A



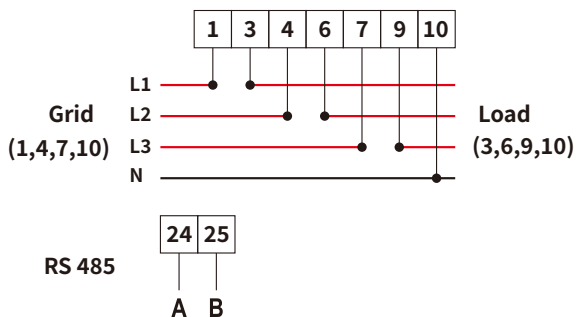
Pic 7.9 CHINT meter



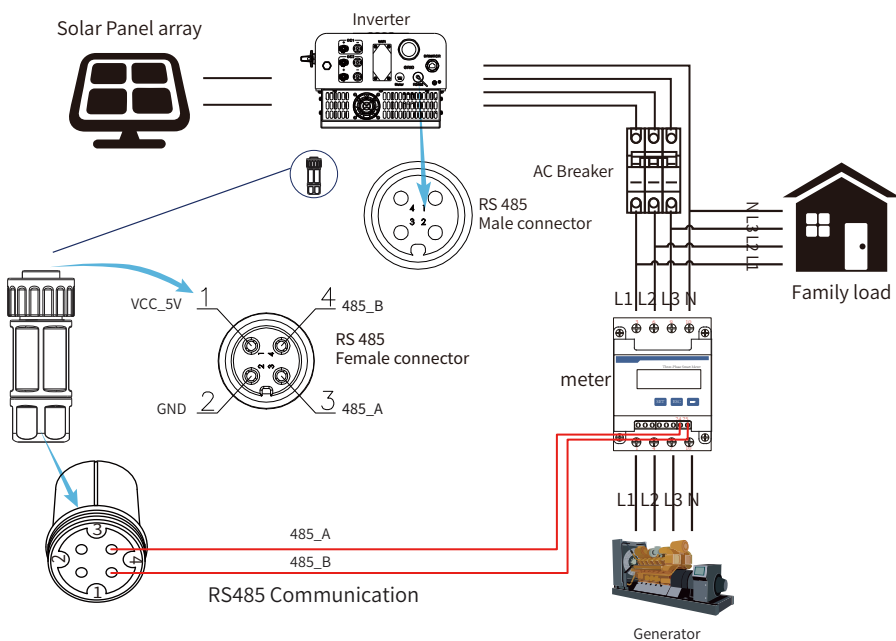
Pic 7.10 Connection diagram of CHINT meter



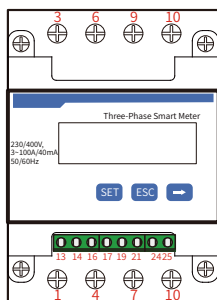
CHINT DTSU666 5(80)A



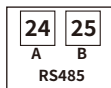
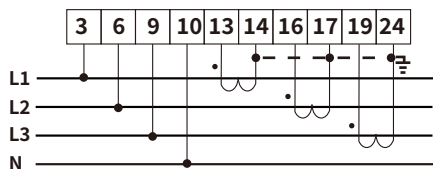
Pic 7.11 CHINT meter



Pic 7.12 Connection diagram of CHINT meter



CHINT DTSU666
3x230/400V
3~100A/40mA

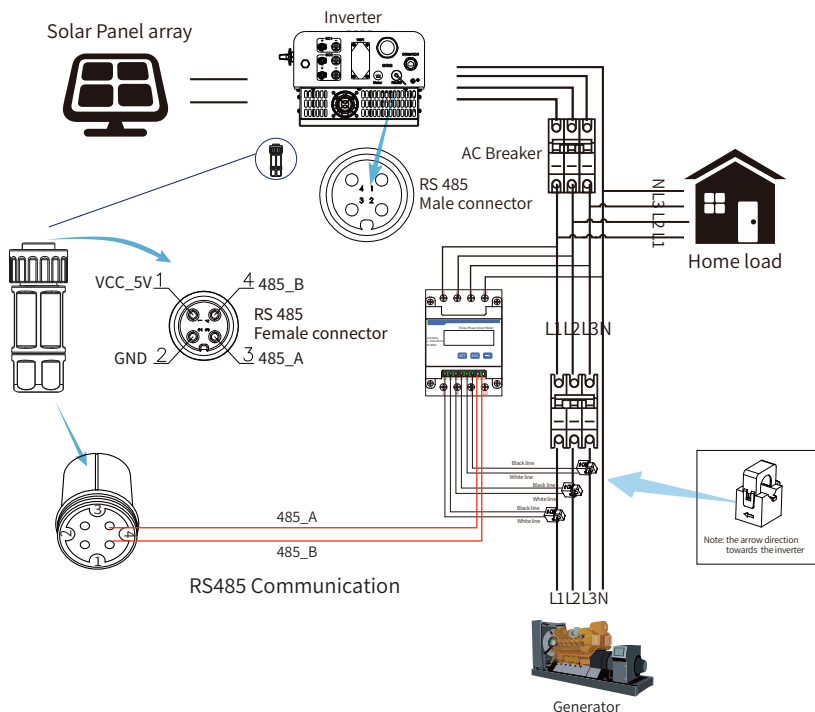


1A 5.000 A
Phase A current =5.000A

1B 5.001 A
Phase B current =5.001A

1C 5.002 A
Phase C current =5.002A

Pic 7.15 CHINT meter



Pic 7.16 Connection diagram of CHINT meter

7.1 Multiple strings and parallel connection meters

This application is that when the string inverters work in parallel, there is only one power grid and one load, and only one meter can be connected to prevent reverse current, so only this many-to-one anti-reverse current connection can be connected.

If there's several inverters in a plant, also it can use 1pcs meter to realize zero export function. For example,if there's 3pcs inverter in the system with 1pcs meter.We need to setup 1pcs inverter as the master and others setup as slaves. And, all of them need to connect to the meter via RS485. Below is the system diagram and configuration of the system.

Meter	OFF <<	Exp_Mode	AUG <<
Limiter	OFF	CT_Ratio	0
MFR	ACREL	Shunt	OFF
FeedIn	0.0KW <<	ShuntQTY	1 <<
Generator	ON	G_MFR	CHINT
G_CT	1 <<	G_Pout	0% <<
G.Cap	0.0KW		
Back<<			

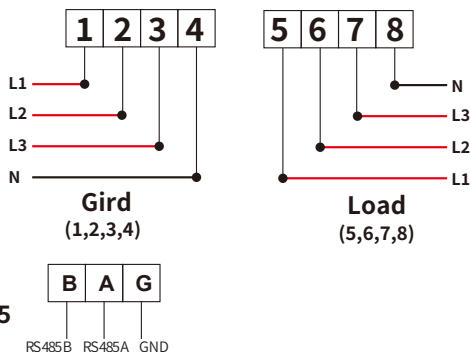
Pic 7.17 Meter function

Name	Description	Range
Exp_Mode	AVG: Average power of three phase is zero exported. MIN: Phase with minimum load power is zero exported, while the other two phase may be in purchase mode.	AVG/MIN
CT_Ratio	CT ratio of power grid side meter when extern CT is applied.	1-1000
MFR	Manufacturer of the grid side meter. Modbus Address of it should be set as 01.	AUTO/CHINT/ EASTRON
Feedin	Percentage of the Feed in power exported to the grid.	0-110%
Shunt	Parallel mode. Set one inverter as Master, others are Slave. ONLY need to set the master, Slave will follow the settings in the master.	OFF/Master/ Slave
ShuntQTY	Number of inverters in parallel	1-16
Generator	DG side meter function Enable/Disable	ON/OFF
G.CT	CT ratio of power DG side meter when extern CT is applied.	1-1000
G.MFR	Manufacturer of the DG side meter. Modbus Address of it should be set as 02.	AUTO/CHINT/ EASTRON
G.Cap	Capacity of the DG.	1-999kW

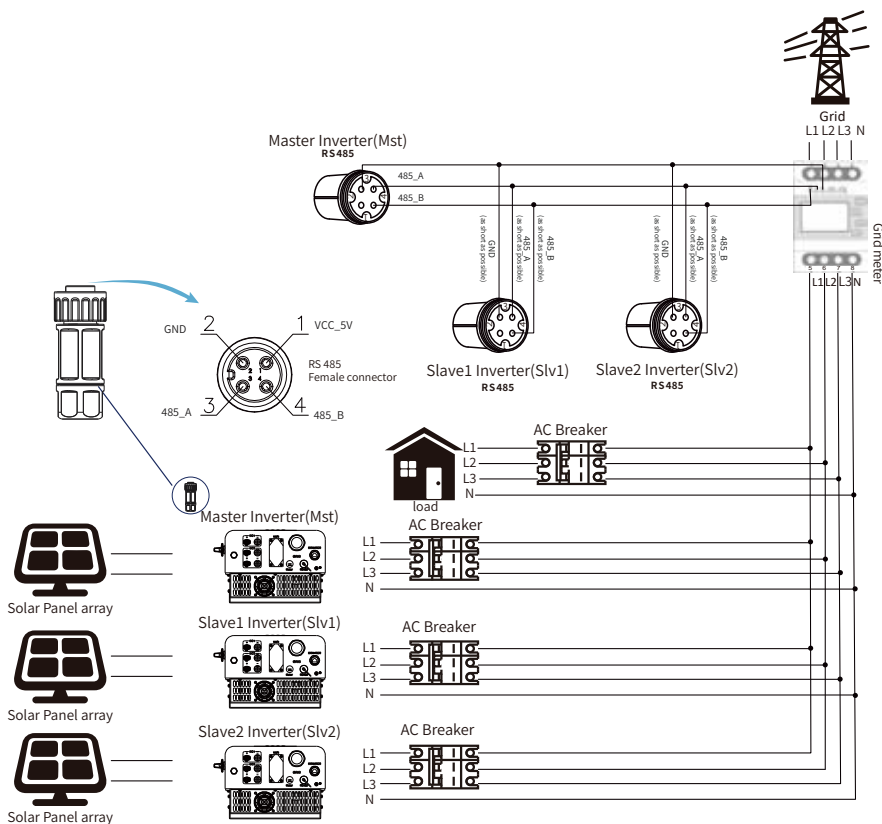
Note: Select Meter option in Run Param and long press ENTER button to enter this Meter Setting page.



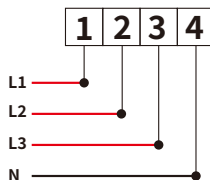
Eastron SDM630-Modbus V2



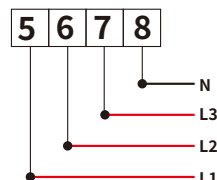
Pic 7.18 Eastron meter



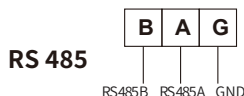
Pic 7.19 Eastron Connection diagram(The pass-through table)



Grid
(1,2,3,4)

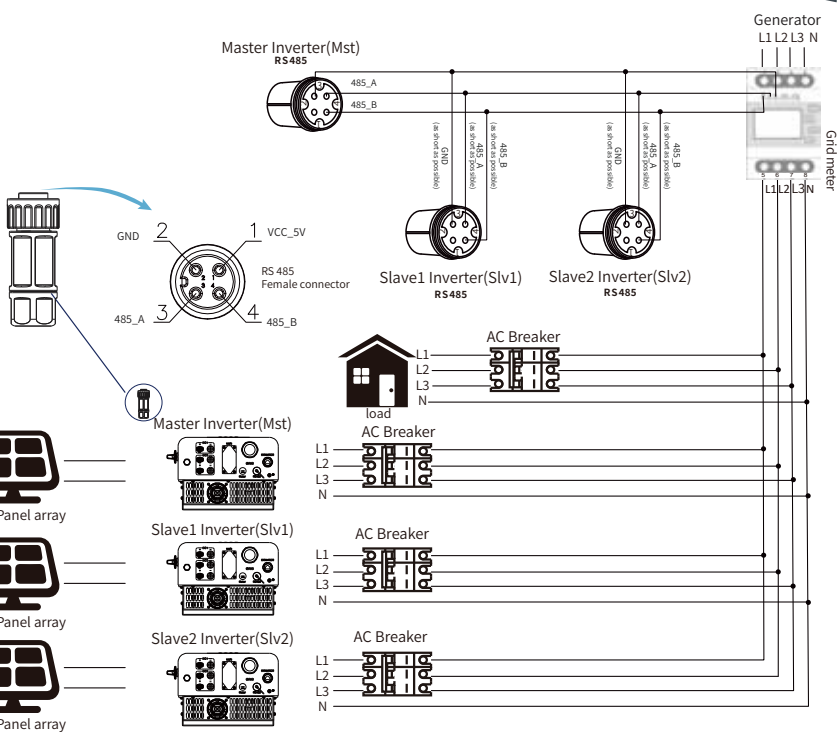


Load
(5,6,7,8)

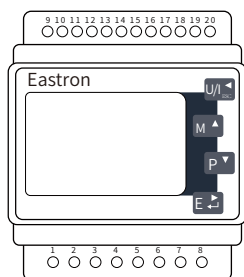


Easton SDM630-Modbus V2

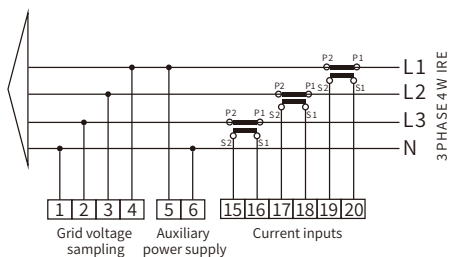
Pic 7.20 Easton meter



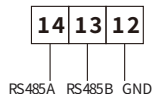
Pic 7.21 Easton Connection diagram(The pass-through table)



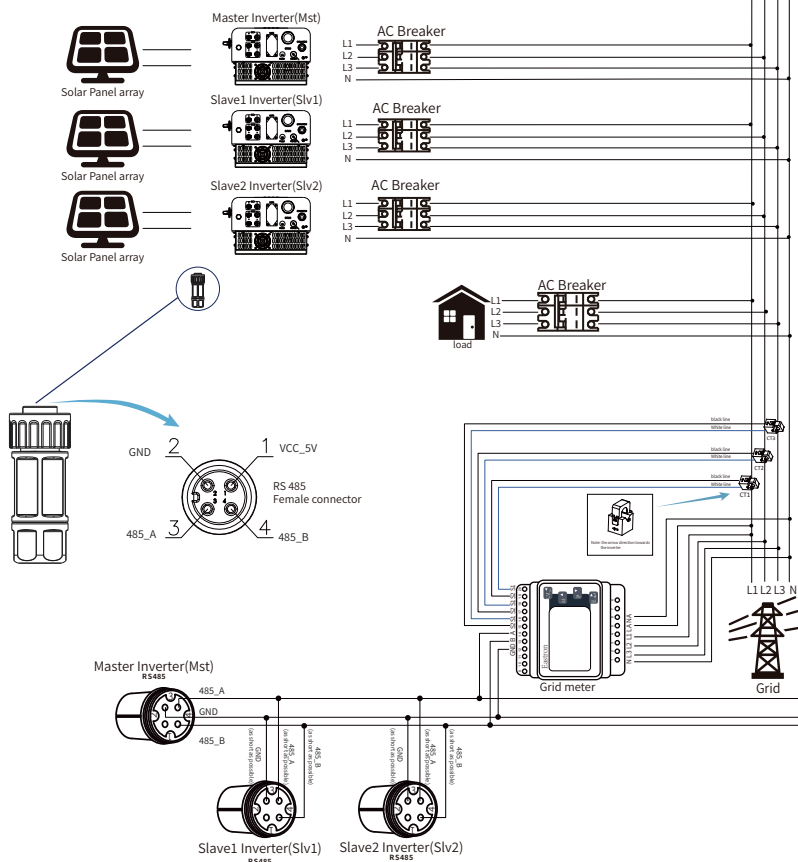
Eastron SDM630MCT



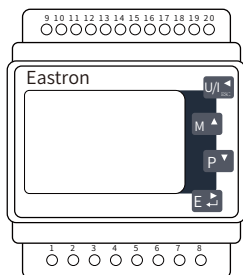
RS 485



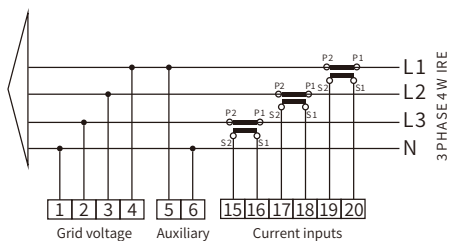
Pic 7.22 Eastron meter



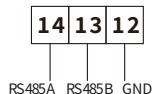
Pic 7.23 Connection diagram(Three-phase electricity)



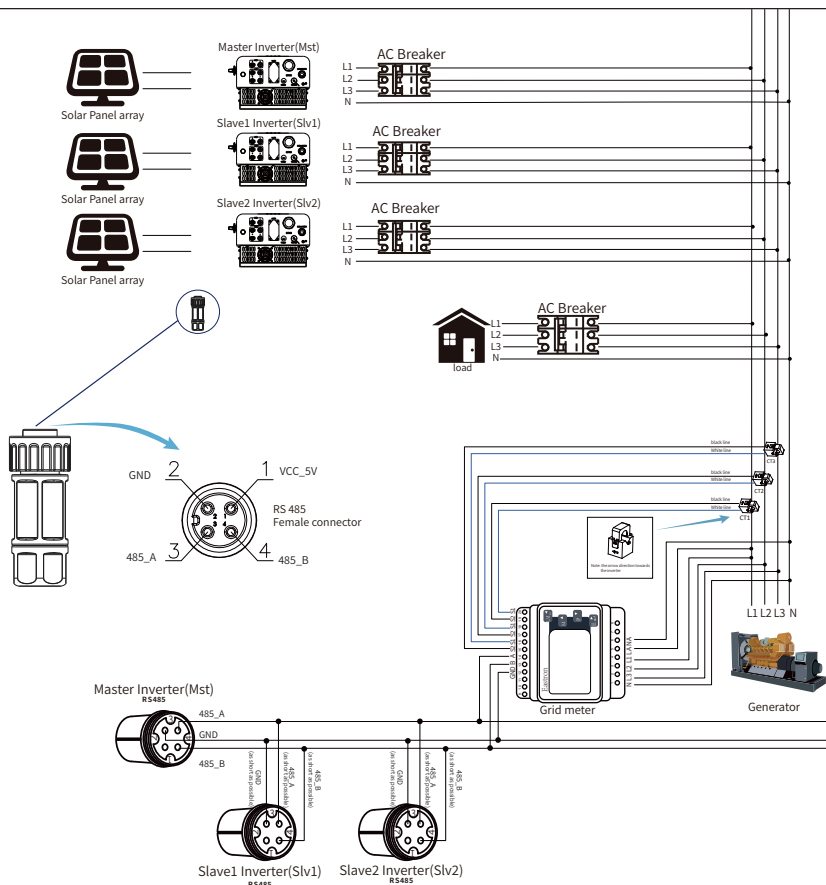
Eastron SDM630MCT



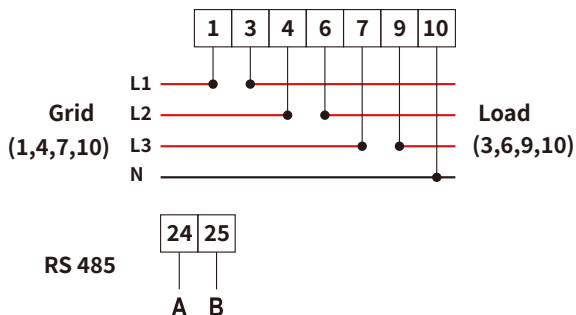
RS 485



Pic 7.24 Eastron meter

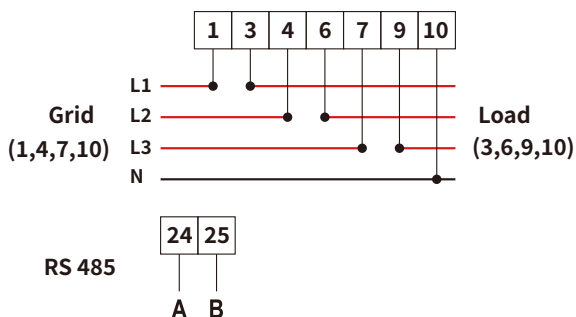


Pic 7.25 Connection diagram(Three-phase electricity)



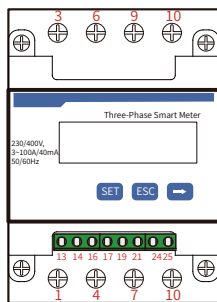
Pic 7.26 CHINT meter



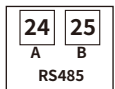
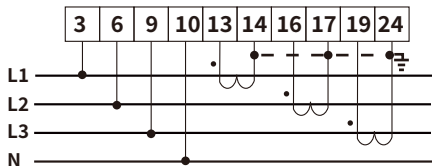


Pic 7.28 CHINT meter





CHINT DTSU666
3x230/400V
3~100A/40mA

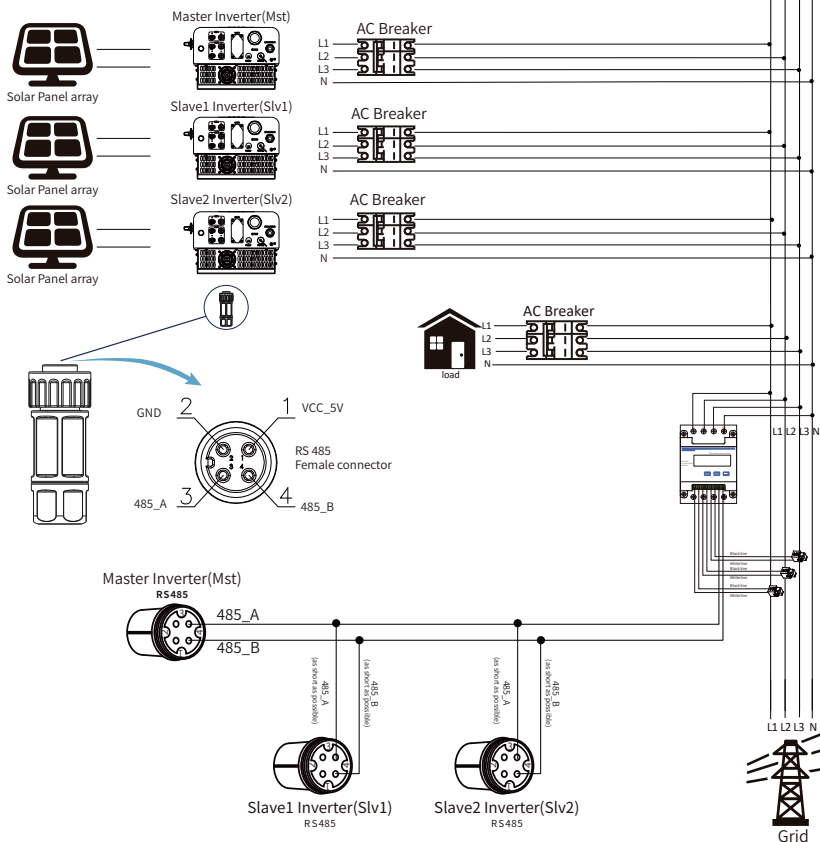


1A 5.000 A
Phase A current =5.000A

1b 5.001 A
Phase B current =5.001A

1c 5.002 A
Phase C current =5.002A

Pic 7.30 CHINT meter

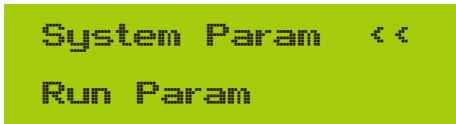


Pic 7.31 CHINT Connection diagram(The pass-through table)

7.2 Use of zero-export function

When the connection is completed, the following steps should be referred to use this function:

1. Turn on the AC switch.
2. Turn on the DC switch, waiting for the inverter's LCD is turned on.
3. Press Enter button on the LCD panel in the main interface into the menu options, select [parameter setting] to enter setup submenu, and then select [running parameters] as shown in picture 7.34, at this time please input the default password 1234 through pressing the button [up down, enter], enter the operation parameter setting interface, shown as picture 7.35.



Pic 7.34 Parameter setting



Pic 7.35 Meter switch

4. Operate the button [up down], move setting cursor to energy meter and press the button [enter]. At this time you can turn on or turn off the energy meter by choosing [up down] button, please press [enter] button to confirm when setting done.
5. Move the cursor to [OK], press [enter] to save the settings and exit the running parameters page, otherwise the settings are invalid.
6. If set up successfully, you can return to the menu interface, and display the LCD to [home page] by press the [up down] button. If it displays [meter power XXW], the zero-export function setting is completed. Shown as picture 7.36.



Pic 7.36 Zero-export function via energy meter turn on

7. Meter power XXW shows positive means grid is supplying the load, and no power fed into grid. if meter power shows negative, it means PV energy is being sold to grid or energy meter wiring connction has problem.
8. After properly connection is done, wait for inverter starting. If the power of the PV array meets the current power consumption, the inverter will keep a certain output to counteract the power of the grid without backflow .

7.3 Notes while using zero export function

For your safety and the operation of limiter function of the inverter, we put forward the following suggestions and precautions:



Safety Hint:

Under zero export mode we strongly recommend that the two PV arrays are formed by the same number of PV panels of the same size, which will make the inverter more responsive to limit the power.



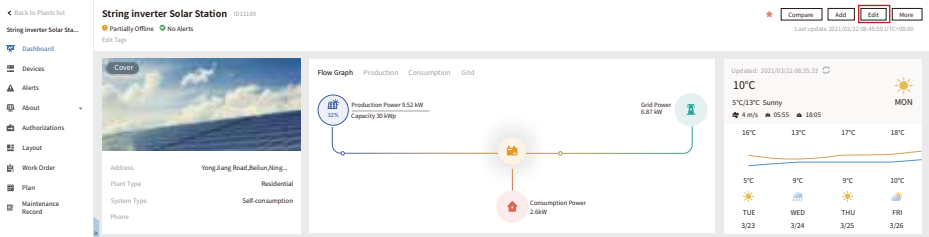
Safety Hint:

While the utility power is negative and inverter has no output power, that means the orientation of the current sensor is wrong, please turn off the inverter and change orientation of the current sensor.

7.4 How to browse the load power of your PV grid-tie plant on monitoring platform?

If you want to browse load power of the system and how much energy (KWH) does it export to grid(inverter output power is used to power the load firstly and then the surplus energy will feed into grid). You also need to connect the meter according to above diagram. After the connection completed successfully, the inverter will show the load power on the LCD. **But please don't setup "Meter ON"** . Also, you will be able to browse the load power on the monitoring platform. The plant setting method as below description.

Firstly, go to the solarman platform(<https://pro.solarmanpv.com>, this link is for solarman distributor account; or <https://home.solarmanpv.com>, this link is for solarman end user account;), plant home page and click “edit” .



And then choose your system type as “Self-consumption”

Edit Plant

Basic Info

System Info

Yield Info

Owner Info

Address:
Yongjiang Road, Beilun, Ningbo, 315806, China

Coordinates:
Longitude 121 46 19.03 Latitude 29 53 36.11
Time Zone:
(UTC+08:00) Beijing,Chongqing,Hong Kong,Usung

Creation Time:
2020/04/08

System Info

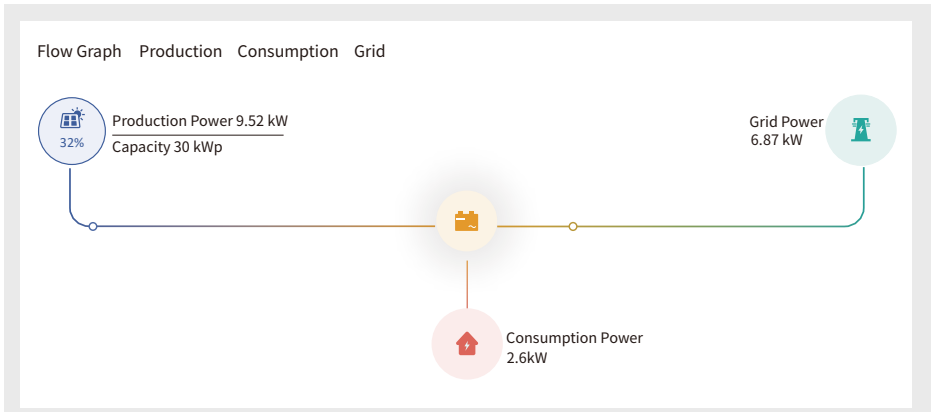
Plant Type:
Residential

System Type:
Self-consumption

Capacity(kWp):
30

Address:
0-300

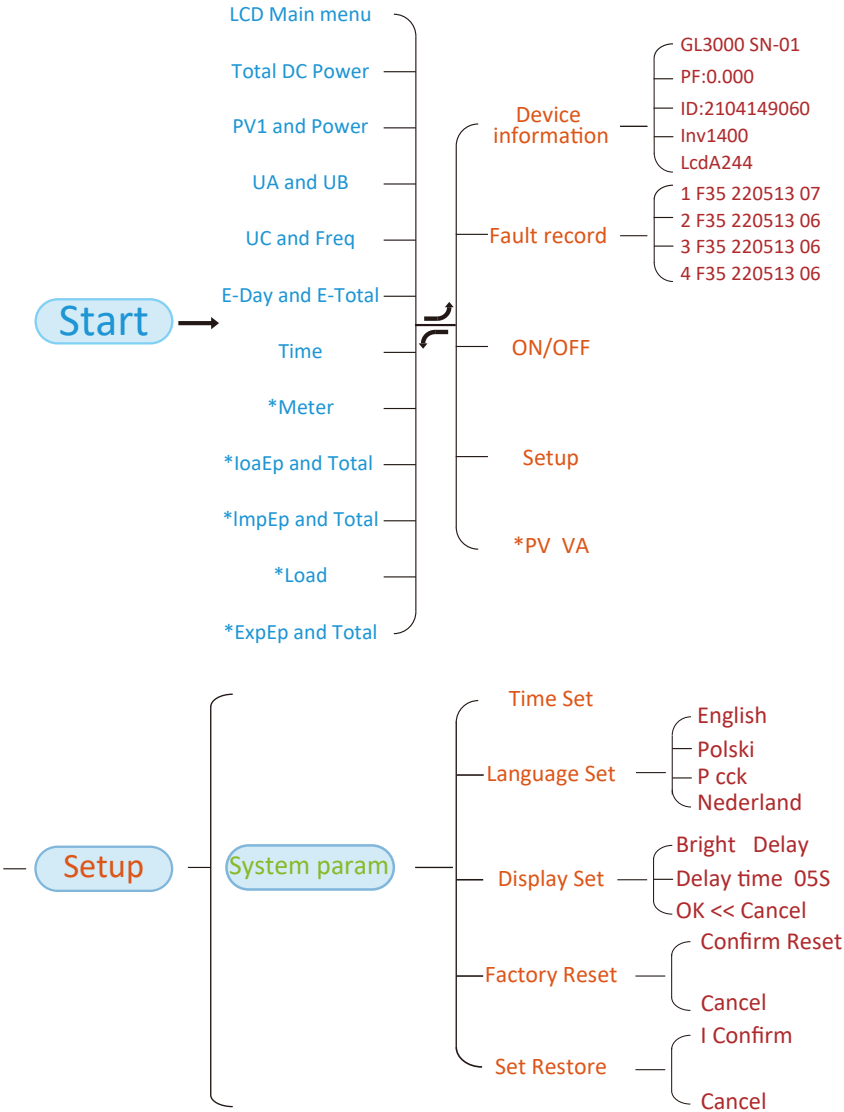
Secondly, go to plant page, if it shows the PV power, load power and grid power, which means the configuration is correct.

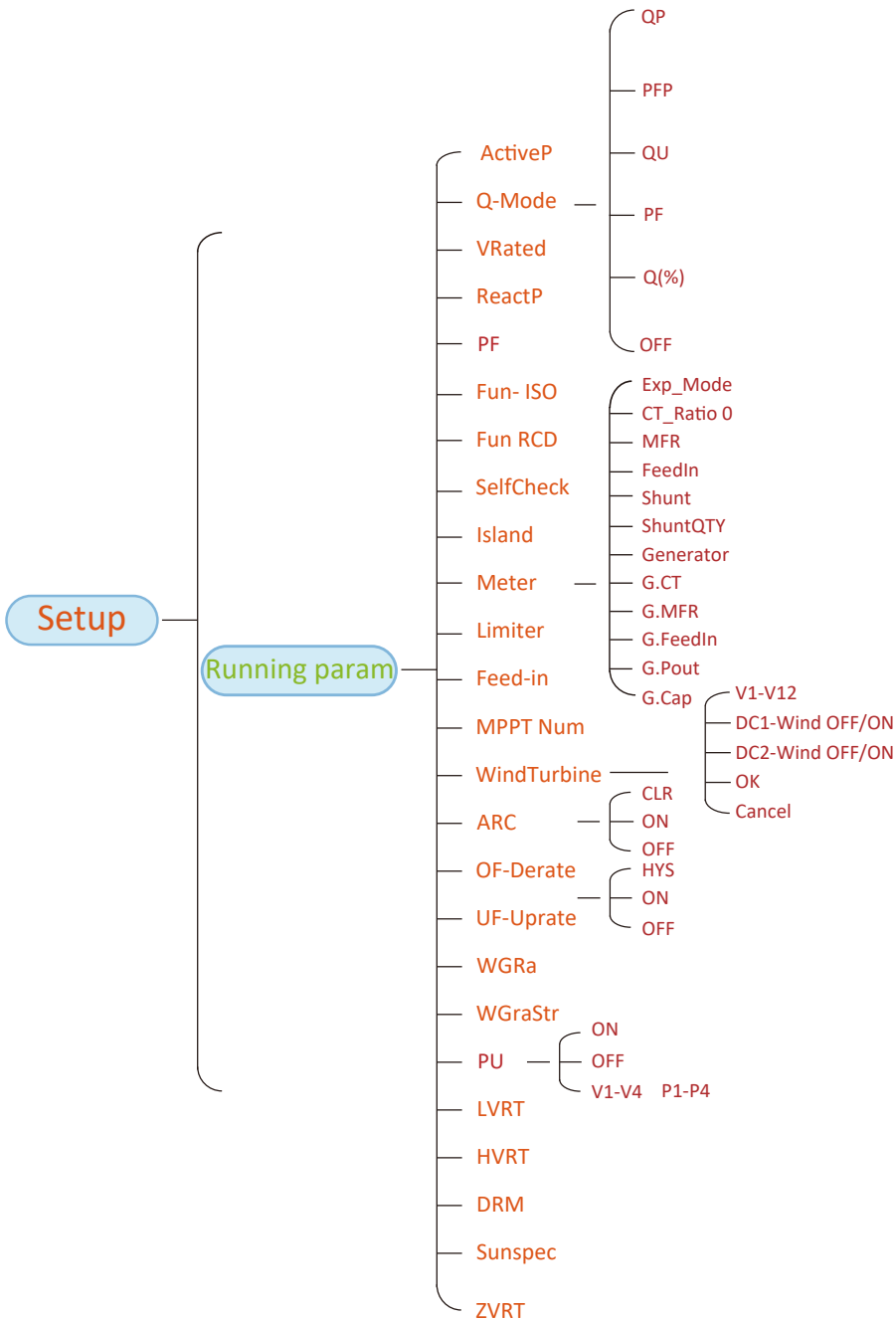


8. General Operation

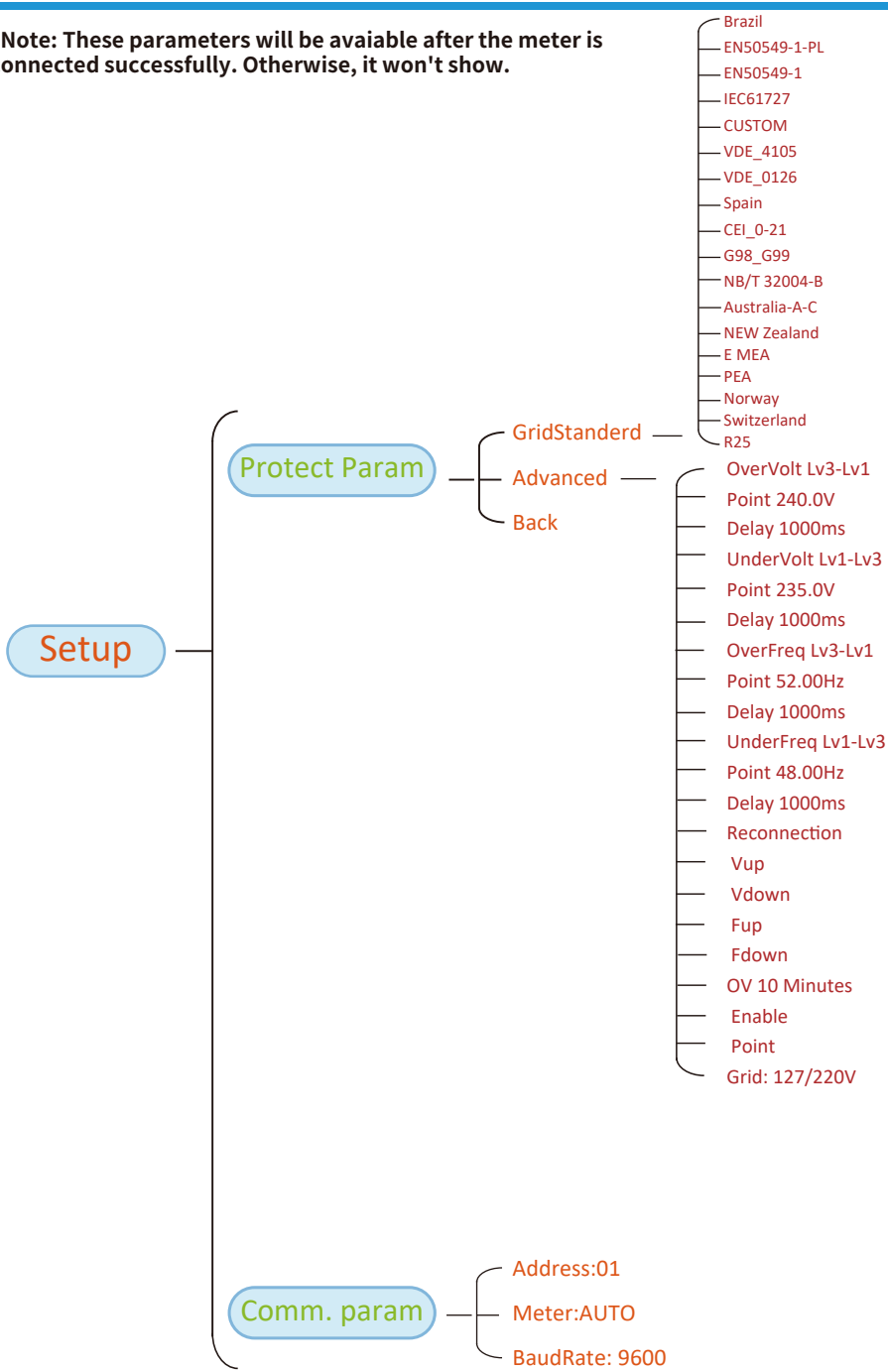
During normal operation, the LCD shows the current status of the inverter, including the current power, total generation, a bar chart of power operation and inverter ID,etc. Press the Up key and the Down key to see the current DC voltage, DC current, AC voltage, AC current,inverter radiator temperature,software version number and Wifi connection state of the inverter.

Attention: For running param detail on the LCD display, please refer to the official Deye website <https://hqcdn.hqsmartcloud.com/deyeinverter/2024/07/29/threephasestringinverter-runningparamsetting.pdf>





***Note: These parameters will be available after the meter is connected successfully. Otherwise, it won't show.**



Pic 8.1 LCD operation flow chart

8.1 The initial interface

From the initial interface, you can check PV power, PV voltage, grid voltage, inverter ID, model and other information.



Pic 8.2 The initial interface

Press UP or Down, you can check inverter DC voltage, DC current, AC voltage, AC current and inverter temperature.



Pic 8.3 PV input voltage and current information

Pic 8.4 Load power



Pic 8.5 Grid voltage and current information

Pic 8.6 Grid voltage and frequency



Pic 8.7 PV generation

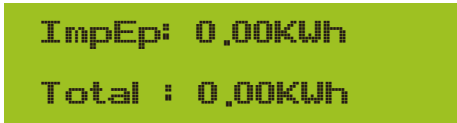


Pic 8.8 Time

Pic 8.9 Meter power



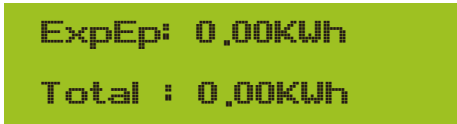
Pic 8.10 Load consumption



ImpEp: 0.00KWh
Total : 0.00KWh

ImpEp: Daily energy purchased from grid;
Total: Total energy purchased from grid.

Pic 8.11 Electrical energy



ExpEp: 0.00KWh
Total : 0.00KWh

ExpEp: Daily energy sold to grid;
Total: Total energy sold to grid.

Pic 8.12 Electrical energy

8.2 Submenus in the Main Menu

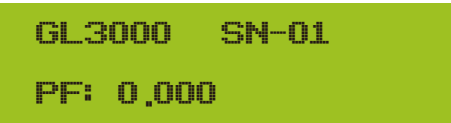
There are five submenus in the Main Menu.

8.2.1 Device information

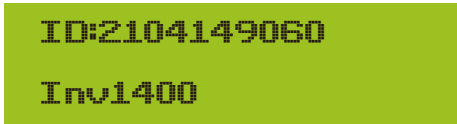
You can see the LCD software VerA244 and control board software Ver1400. In this interface, there are parameters such as rated power communication addresses.



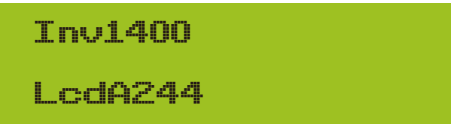
Device Info. <<
Fault Record



GL3000 SN-01
PF: 0.000



ID:2104149060
Inv1400



Inv1400
LcdA244

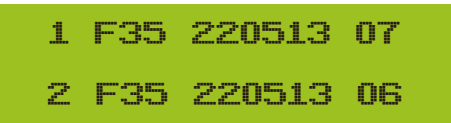
Pic 8.13 Device information

8.2.2 Fault Record

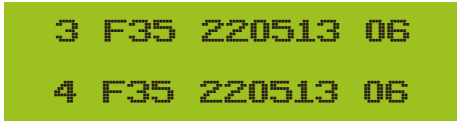
It can keep Eight fault records in the menu including time, customer can deal with it depends on the error code.



Device Info.
Fault Record <<



1 F35 220513 07
2 F35 220513 06



3 F35 220513 06
4 F35 220513 06

Pic 8.14 Fault Record

8.2.3 ON/OFF setting



Pic 8.15 ON/OFF setting

When the inverter is turned off, it stops working immediately, and go to standby mode and then will go to self-test program again. If it passed the self-test, it will start to work again.

8.2.5 Parameter setting

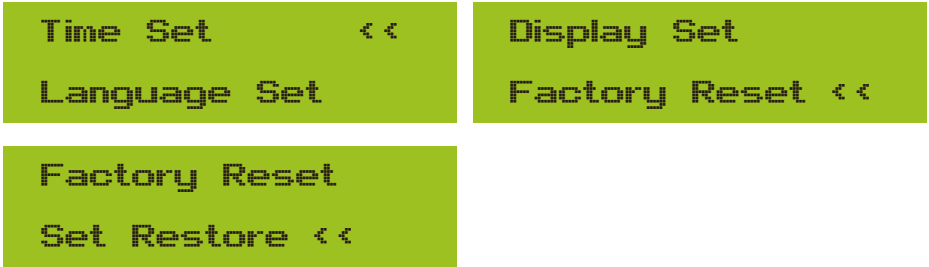
There are five submenus in the setup. Setting includes system param, run param, protect param, comm: param. All of these information for maintenance reference.



Pic 8.16 Submenus of the parameter setup

8.3 System param setting

System Param includes time set, language set, display set and factory reset.



Pic 8.17 System Param



Pic 8.18 Time



Pic 8.19 Language

Pic 8.20 LCD Screen settings



Pic 8.21 Delay time set

Pic 8.22 Reset to factory setting



Pic 8.23 Set Restore

8.4 Protect Param setting



Warning:
Engineer Only.
We will set the param depends on the safety requirements, so customers don't need to reset it. The password is same as 8.4 Running param

PassWord
* * * *

GridStanderd <<
Advanced

Back <<

Pic 8.24 Password

Braszil
EN50549-1-PL <<

EN50549-1
IEC61727 <<

CUSTOM
UDE4105 <<

UDE0126
Spain <<

CEI_0-21
G98 <<

G99
NBT32004-B <<

Australia-A
Australia-B <<

Australia-C
New Zealand <<

MEA
PEA <<

Norway
Switzerland <<

R25
OK Cancel <<

Pic 8.25 GridStanderd

OverVolt Lv3	OverVolt Lv3
Point 240,0V <<	Delay 1000ms <<
OverVolt Lv2	OverVolt Lv2
Point 240,0V <<	Delay 1000ms <<
OverVolt Lv1	OverVolt Lv1
Point 240,0V <<	Delay 1000ms <<
UnderVolt Lv1	UnderVolt Lv1
Point 235,0V <<	Delay 1000ms <<
UnderVolt Lv2	UnderVolt Lv2
Point 235,0V <<	Delay 1000ms <<
UnderVolt Lv3	UnderVolt Lv3
Point 235,0V <<	Delay 1000ms <<
OverFreq Lv3	OverFreq Lv3
Point 52,00Hz <<	Delay 1000ms <<
OverFreq Lv2	OverFreq Lv2
Point 52,00Hz <<	Delay 1000ms <<
OverFreq Lv1	OverFreq Lv1
Point 52,00Hz <<	Delay 1000ms <<
UnderFreq Lv1	UnderFreq Lv1
Point 48,00Hz <<	Delay 1000ms <<

UnderFreq Lv2 Point 48.00Hz <<	UnderFreq Lv2 Delay 1000ms <<
UnderFreq Lv3 Point 48.00Hz <<	UnderFreq Lv3 Delay 1000ms <<
Reconnection Vup 0.0V <<	Reconnection Vdown 0.0V <<
Reconnection Fup 0.00Hz <<	Reconnection Fdown 0.00Hz <<
OV 10 Minutes Enable OFF <<	OV 10 Minutes Point 0.0% <<
Point 0.0% Grid --- <<	OK Cancel <<

Pic 8.26 “CUSTOMIZED”

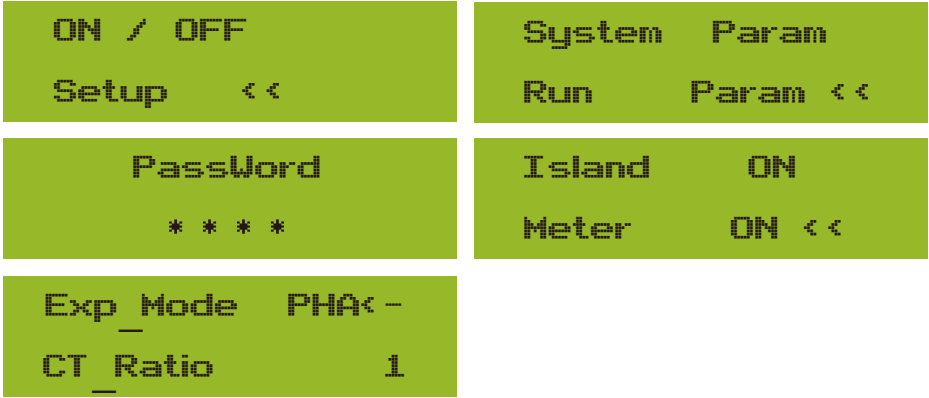
Please set the proper grid parameters according to the requirements of your current country's grid regulations.If you are not clear about it, please consult your installer.

8.5 Comm. param setting

Address: 01 <<	Func: Meter
BaudRate: 9600	Address1: 01 <<

Pic 8.27 Comm. Param

8.6 Three phase unbalance function setting



Pic 8.28

9. Repair and Maintenance

String type inverter doesn’ t need regular maintenance. However,debris or dust will affect heat sink’ s thermal performance. It is better to clean it with a soft brush. If the surface is too dirty and affect the reading of LCD and LED lamp, you can use wet cloth to clean it up.



High Temperature Hazard:

When the device is running, the local temperature is too high and the touch can cause burns. Turn off the inverter and wait for it cooling, then you can clean and maintain.



Safety Hint:

No solvent, abrasive materials or corrosive materials can be used for cleaning any parts of the inverter.

10.Error information and processing

Inverter has been designed in accordance with international grid tied standards for safety, and electromagnetic compatibility requirements. Before delivering to the customer the inverter has been subjected to several tests to ensure its optimal operation and reliability.

10.1 Error code

If there is any failure, the LCD screen will display an alarm message. In this case, the inverter may stop feeding energy into the grid. The alarm description and their corresponding alarm messages are listed in Table 10.1.

Error code	Description	Ongrid - Three Phase
W03	Arc warning	Arc error indicates that the PV side of the inverter has caused an arc issue. It is necessary to check the connection of the PV and then clear this fault through the ARC function in the operating parameters, then it can resume operation.
W05	Upgrade error warning	Firmware was upgraded incorrectly. Please upgrade to the correct firmware.
W13	Fan warning	Usually, due to one or more fan cables are not properly connected or fan is broken, the solution is to check whether all fan cables are properly connected or not, or replace the faulty fan.
W15	Prefix error	Version upgrade error, need to contact after-sales engineer to send command to fix.
F01	DC input polarity reverse fault	Check the PV input polarity.
F02	DC insulation impedance permanent fault	Check the grounding cable of inverter.
F03	DC leakage current fault	Restart the inverter, if not ruled out, try contacting the installer /manufacturer customer service
F04	Ground fault GFDI	Check the solar panel output connection.
F05	Read the memory error	Failure in reading memory (EEPROM). Restart the inverter if the fault still exists, contact your installer or Deye service.
F06	Write the memory error	Failure in writing memory (EEPROM). Restart the inverter if the fault still exists, contact your installer or Deye service.
F07	GFDI blown fuse	Restart the inverter, if not ruled out, try contacting the installer /manufacturer customer service
F08	GFDI grounding touch failure	Restart the inverter, if not ruled out, try contacting the installer /manufacturer customer service
F09	IGBT damaged by excessive drop voltage	Restart the inverter, if not ruled out, try contacting the installer /manufacturer customer service
F10	Auxiliary switch power supply failure	1. It tells the DC 12V is not existed. 2. Restart the inverter, if the fault still exists, please contact your installer or Deye service.
F11	AC main contactor errors	Restart the inverter, if not ruled out, try contacting the installer /manufacturer customer service
F12	AC auxiliary contactor errors	Restart the inverter, if not ruled out, try contacting the installer /manufacturer customer service
F13	reserved	1. Loss of one phase or AC voltage detection part failure or relays not closed. 2. Restart the inverter, if the error still exists, please contact your installer or Deye service.
F14	DC firmware over current	Restart the inverter, if not ruled out, try contacting the installer /manufacturer customer service
F15	AC firmware over current	1. The internal AC sensor or detection circuit on control board or connection wire may be loose. 2. Restart the inverter, if the error still exists, please contact your installer or Deye service.

Error code	Description	Ongrid - Three Phase
F16	GFCI(RCD) Ac leakage current fault	1. This fault means the average leakage current is over 300mA. Check whether DC power supply or solar panels is ok, then check 'Test data'-> 'diL' value is about 40; Then check the leakage current sensor or circuit (the following picture). Checking test data needs using big LCD. 2. Restart the inverter, if the error still exists, please contact your installer or Deye service.
F17	Three phase current, over-current fault	Restart the inverter, if not ruled out, try contacting the installer /manufacturer customer service
F18	AC over current fault of hardware	1. Check AC sensor or detection circuit on control board or connection wire. 2. Restart the inverter or factory reset, if the error still exists, please contact your installer or Deye service.
F19	All hardware failure synthesis	Restart the inverter, if not ruled out, try contacting the installer /manufacturer customer service
F20	DC over current fault of the hardware	1. Check whether solar panel output current is within the allowed range. 2. Check DC current sensor and its detection circuit. 3. Check if the inverter FW version is suitable for the hardware. 4. Restart the inverter, if the error still exists, please contact your installer or Deye service.
F21	DC leakage flow fault	Restart the inverter, if not ruled out, try contacting the installer /manufacturer customer service
F22	Crash stop (if there is a stop button)	Contact your installer for help.
F23	AC leakage current is transient over current	1. This fault means the leakage current is above 30mA suddenly. Check whether DC power supply or solar panels is ok, then check 'Test data'-> 'diL' value is about 40; Then check the leakage current sensor or circuit. Check test data needs using big LCD. 2. Restart the inverter, if the fault still exists, contact your installer or Deye service.
F24	DC insulation impedance failure	1. Check Vpe resistance on main board or detection on control board. Check PV panels is OK. Many times this issue is the PV problem. 2. Check whether the PV panel (aluminum frame) is grounded well and inverter is grounded well. Open the cover of inverter and then check the inside ground cable is fixed well on the shell. 3. Check if the AC/DC cable, terminal block are shorted to ground or the insulation is damaged. 4. Restart the inverter, if the fault still exists, contact your installer or Deye service.
F25	DC feedback fault	Restart the inverter, if not ruled out, try contacting the installer /manufacturer customer service
F26	The DC busbar is unbalanced	1. Check whether the 'BUSN' cable or driver board power supply cable is loose. 2. Restart the inverter, if the fault still exists, contact your installer or Deye service.
F27	DC end insulation error	Restart the inverter, if not ruled out, try contacting the installer /manufacturer customer service
F28	Inverter 1 DC high fault	Restart the inverter, if not ruled out, try contacting the installer /manufacturer customer service
F29	AC load switch failure	Restart the inverter, if not ruled out, try contacting the installer /manufacturer customer service
F30	AC main contactor failure	1. Check relays and AC voltage of relays. 2. Check relays driver circuit. Check if the software is not suitable for this inverter. (Old inverter not have relays detection function) 3. Restart the inverter, if the fault still exists, contact your installer or Deye service.

Error code	Description	Ongrid - Three Phase
F31	Relay open circuit fault	1. At least one Relay can't be closed. Check relays and its driver signal. (Old inverter not have relays detection function) 2. Restart the inverter, if the fault still exists, contact your installer or Deye service.
F32	Inverter 2 dc high fault	Restart the inverter, if not ruled out, try contacting the installer /manufacturer customer service
F33	AC over current	Restart the inverter, if not ruled out, try contacting the installer /manufacturer customer service
F34	AC current over load	Restart the inverter, if not ruled out, try contacting the installer /manufacturer customer service
F35	No AC grid	1. Check AC grid voltage. Check AC voltage detection circuit. Check if the AC connector in good condition. Check whether the AC grid is normal in voltage. 2. Restart the inverter, if the fault still exists, contact your installer or Deye service.
F36	AC grid phase error	Restart the inverter, if not ruled out, try contacting the installer /manufacturer customer service
F37	AC three-phase voltage unbalance failure	Restart the inverter, if not ruled out, try contacting the installer /manufacturer customer service
F38	AC three-phase current unbalance failure	Restart the inverter, if not ruled out, try contacting the installer /manufacturer customer service
F39	AC over current(one cycle)	1. Check AC current sensor and its circuit. 2. Restart the inverter, if the fault still exists, contact your installer or Deye service.
F40	DC over current	Restart the inverter, if not ruled out, try contacting the installer /manufacturer customer service
F41	AC Line W,U over voltage	Check the AC voltage protection setting. And Check if the AC cable is too thin.Check the voltage difference between LCD and meter.
F42	AC Line W,U low voltage	Check the AC voltage protection setting. Check the voltage difference between LCD and meter. Also need to check whether AC cables are all firmly and correctly connected.
F43	AC Line V,W over voltage	Check the AC voltage protection setting.And Check if the AC cable is too thin.Check the voltage difference between LCD and meter.
F44	AC Line V,W low voltage	Check the AC voltage protection setting. Check the voltage difference between LCD and meter. Also need to check whether AC cables are all firmly and correctly connected.
F45	AC Line U,V over voltage	Check the AC voltage protection setting.And Check if the AC cable is too thin.Check the voltage difference between LCD and meter.
F46	AC Line U,V low voltage	Check the AC voltage protection setting.
F47	AC Over frequency	Check the frequency protection setting.
F48	AC lower frequency	Check the frequency protection setting.
F49	U phase grid current DC component over current	Restart the inverter, if not ruled out, try contacting the installer /manufacturer customer service
F50	V phase grid current DC component over current	Restart the inverter, if not ruled out, try contacting the installer /manufacturer customer service
F51	W phase grid current DC component over current	Restart the inverter, if not ruled out, try contacting the installer /manufacturer customer service
F52	AC inductor A, phase current DC current high	Restart the inverter, if not ruled out, try contacting the installer /manufacturer customer service

Error code	Description	Ongrid - Three Phase
F53	AC inductor B, phase current DC current high	Restart the inverter, if not ruled out, try contacting the installer /manufacturer customer service
F54	AC inductor C, phase current DC current high	Restart the inverter, if not ruled out, try contacting the installer /manufacturer customer service
F55	DC busbar voltage is too high	1. Check PV voltage and Ubus voltage and its detection circuit. If the PV input voltage exceeds the limit, please reduce the number of solar panels in series. 2. For Ubus voltage, please check the LCD display.
F56	DC busbar voltage is too low	1. It tells the PV input voltage is low and it always happens in the early morning. 2. Check PV voltage and Ubus voltage. When inverter is running, then showing F56, maybe Loss of driver or need update firmware. 3. Restart the inverter, if the fault still exists, contact your installer or Deye service.
F57	AC reverse irrigation	AC reverse irrigation.
F58	AC grid U over current	Restart the inverter, if not ruled out, try contacting the installer /manufacturer customer service
F59	AC grid V over current	Restart the inverter, if not ruled out, try contacting the installer /manufacturer customer service
F60	AC grid W over current	Restart the inverter, if not ruled out, try contacting the installer /manufacturer customer service
F61	Reactor A phase over current	Restart the inverter, if not ruled out, try contacting the installer /manufacturer customer service
F62	Reactor B phase over current	Restart the inverter, if not ruled out, try contacting the installer /manufacturer customer service
F63	ARC fault	1. Check PV module cable connection and clear the fault; 2. Seek help from us, if can not go back to normal state.
F64	IGBT heat sink high temperature	1. Check temperature sensor. Check if firmware is suitable for the hardware. Check if the inverter is its right model. 2. Restart the inverter, if the fault still exists, contact your installer or Deye service.

Table10.1 Error codes and their solutions



Safety Hint:

If your string inverter has any of the fault information shown in Table 10-1, and when you reset the machine and still don't solve the problem, please contact our distributor and provide the below details:

1. Serial number of the inverter;
2. The distributor/dealer of the inverter(if available);
3. Installation date;
4. The discription of problem(include LCD'error code and LED status indicator lights);
5. Your contact details.

11.Specification

Model	SUN-8K-G06-LV-P1
PV String Input Data	
Max. PV Input Power(kW)	10.4
Max. PV Input Voltage(V)	800
Start-up Voltage(V)	250
PV Input Voltage Range(V)	250-800
MPPT Voltage Range(V)	200-700
Full Load MPPT Voltage Range(V)	300-700
Rated PV Input Voltage(V)	500
Max. Input Short Circuit Current (A)	30+39
Max. Operating PV Input Current(A)	20+26
No. of MPP Trackers/No. of Strings MPP Tracker	2/1+2
Max. Inverter Backfeed Current To the Array	0
AC Output Data	
Rated AC Output Active Power(kW)	8
Max.AC Output Apparent Power(kVA)	8
Rated AC Output current (A)	21/20.1
Max.AC Output Current(A)	21/20.1
Max. Output Fault Current (A)	40.2
Max. Output Overcurrent Protection (A)	47.7
Rated Output voltage/range (V)	127V/220V, 133V/230V 0.85Un-1.1Un
Grid Connection Form	3L+N+PE
Rated Output Grid Frequency/range(Hz)	50Hz/45Hz-55Hz, 60Hz/55Hz-65Hz
Power Factor Adjustment Range	0.8 leading-0.8lagging
Total Current Harmonic Distortion THDi	<3%
DC Injection Current	<0.5%In
Efficiency	
Max.Efficiency	98.3%
Euro Efficiency	98.0%
MPPT Efficiency	>99%
Equipment Protection	
DC reverse polarity protection	yes
AC Output Overcurrent Protection	yes
AC Output Overvoltage Protection	yes
AC Output Short Circuit Protection	yes
Thermal Protection	yes
Insulation Impedance detection	yes
DC Component Monitoring	yes
Arc fault circuit interrupter (AFCI)	Optional
Anti-islanding protection	yes
DC Switch	yes
Residual Current Detection	yes
Surge Protection Level	TYPE II(DC),TYPE II(AC)

Interface	
Communication Interface	RS485/RS232
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)
Display	LCD+LED
General Data	
Operating Temperature Range (°C)	-25 to +60°C,>45°C derating
Permissible Ambient Humidity	0-100%
Permissible Altitude (m)	4000m
Noise (dB)	<45 dB
Ingress Protection(IP) Rating	IP 65
Inverter Topology	Non-Isolated
Over Voltage Category	OVC II(DC),OVC III(AC)
Cabinet Size (W*H*D) [mm]	283×463×178 (Excluding connectors and brackets)
Weight [kg]	11
Warranty [year]	Standard 5 years, extendable warranty
Type Of Cooling	Natural cooling
Grid Regulation	NBR 16149, NBR 16150, EN 50549, RD 140
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2

12. EU Declaration of Conformity

within the scope of the EU directives

- Electromagnetic compatibility 2014/30/EU (EMC)
- Low Voltage Directive 2014/35/EU (LVD)
- Restriction of the use of certain hazardous substances 2011/65/EU(RoHS)



NINGBO DEYE INVERTER TECHNOLOGY CO., LTD. confirms herewith that the products described in this document are in compliance with the fundamental requirements and other relevant provisions of the above mentioned directives. The entire EU Declaration of Conformity and certificate can be found at <https://www.deyeinverter.com/download/#string-inverter>.

EU Declaration of Conformity

Product: **Grid-connected PV Inverter**

Models: SUN-3K-G06P3-EU-AM2;SUN-4K-G06P3-EU-AM2;SUN-5K-G06P3-EU-AM2;SUN-6K-G06P3-EU-AM2;
SUN-7K-G06P3-EU-AM2;SUN-8K-G06P3-EU-AM2;SUN-9K-G06P3-EU-AM2;SUN-10K-G06P3-EU-AM2;
SUN-12K-G06P3-EU-AM2;SUN-15K-G06P3-EU-AM2;SUN-3K-G06P3-EU-AM2-P1;
SUN-4K-G06P3-EU-AM2-P1;SUN-5K-G06P3-EU-AM2-P1;SUN-6K-G06P3-EU-AM2-P1;
SUN-7K-G06P3-EU-AM2-P1;SUN-8K-G06P3-EU-AM2-P1;SUN-9K-G06P3-EU-AM2-P1;
SUN-10K-G06P3-EU-AM2-P1;SUN-12K-G06P3-EU-AM2-P1;SUN-15K-G06P3-EU-AM2-P1;
SUN-6K-G06-LV;SUN-8K-G06-LV;SUN-6K-G06-LV-P1;SUN-8K-G06-LV-P1;

Name and address of the manufacturer: Ningbo Deye Inverter Technology Co., Ltd.

No. 26 South YongJiang Road, Daqi, Beilun, NingBo, China

This declaration of conformity is issued under the sole responsibility of the manufacturer. Also this product is under manufacturer's warranty.

This declaration of conformity is not valid any longer: if the product is modified, supplemented or changed in any other way, as well as in case the product is used or installed improperly.

The object of the declaration described above is in conformity with the relevant Union harmonization legislation: The Low Voltage Directive (LVD) 2014/35/EU;the Electromagnetic Compatibility (EMC) Directive 2014/30/EU;the restriction of the use of certain hazardous substances (RoHS) Directive 2011/65/EU.

References to the relevant harmonized standards used or references to the other technical specifications in relation to which conformity is declared:

LVD:	
EN 62109-1:2010	●
EN 62109-2:2011	●
EMC:	
EN IEC 61000-6-1:2019	●
EN IEC 61000-6-2:2019	●
EN IEC 61000-6-3:2021	●
EN IEC 61000-6-4:2019	●
EN IEC 61000-3-2:2019+A1:2021	●
EN 61000-3-3:2013/A2:2021/AC:2022-01	●
EN IEC 61000-3-11:2019	●
EN 61000-3-12:2011	●
EN 62920:2017/A1:2021	●

EU DoC – v2

Ningbo Deye Inverter Technology Co., Ltd.
No. 26 South YongJiang Road, Daqi, Beilun, NingBo, China

Nom et Titre / Name and Title:

Bard Dai
Senior Standard and Certification Engineer

Au nom de / On behalf of:

宁波德业变频技术有限公司
Ningbo Deye Inverter Technology Co., Ltd.

Date / Date (yyyy-mm-dd):

2025-5-27

A / Place:

Ningbo, China

EU DoC – v2

Ningbo Deye Inverter Technology Co., Ltd.
No. 26 South YongJiang Road, Daqi, Beilun, NingBo, China

2025-02-25 Ver: 2.5

