




On-Grid PV Inverter

□ 30 kW

iNERGY

User Manual
Version 1.0

Trademarks

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Notice

Due to product version upgrades or other reasons, the content of the document may be subject to periodic updates, unless otherwise agreed, the document content cannot replace the safety precautions in the product label or user manual.

All descriptions in the documentation are intended solely as guidelines for usage.

Scope of Validity

This manual describes the installation, commissioning, operation and maintenance of the following on-grid PV inverters produced by Yinergy:

- SI-3P30K-Y1

Model Description

SI - 3P30K - Y1

1

1 Product Type

"SI" refers to String Inverter.

2

2 Grid Type

"3P" refers to Three Phase.

3

3 Rated Power

"30K" refers to the rated output power of 30 kW.

4

4 Version Number

"Y1" refers to the first version.

Target Group

Only for professionals who are familiar with local regulations, standards and electrical systems, and who have received professional training and knowledge of this product.

Symbol Description

Different levels of warning messages in this manual are defined as follows:



DANGER!

Indicates a high-level hazard that, if not avoided, will result in death or serious injury.



WARNING!

Indicates a medium-level hazard that, if not avoided, could result in death or serious injury.



CAUTION!

Indicates a low-level hazard that, if not avoided, could result in minor or moderate injury.



NOTICE

Highlight and supplement the texts. Or some skills and methods to solve product-related problems to save time.

Change History

Version 1.0 (30/10/2024)

Initial release

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1.1 Safety Precautions

1. All work on the inverter must be carried out by qualified electricians.
2. The device may only be operated with PV panels.
3. The PV panels and inverter must be connected to the ground.
4. Do not touch the inverter cover until 5 minutes after disconnecting both DC and AC power supply.
5. Do not touch the inverter enclosure when operating, keep away from materials that may be affected by high temperatures.
6. Please ensure that the used device and any relevant accessories are disposed of in accordance with applicable regulations.
7. Yinergy inverter should be placed upwards and handled with care in delivery. Pay attention to waterproof. Do not expose the inverter directly to water, rain, snow or spray.
8. Alternative uses, modifications to the inverter not recommended. The warranty can become void if the inverter was tampered with or if the installation is not in accordance with the relevant installation instructions.

1.2 Explanations of Symbols

Yinergy inverter strictly comply with relevant safety standards. Please read and follow all the instructions and cautions during installation, operation and maintenance.

Table 1-1 Symbols

Symbol	Description
	<p>Danger of electric shock</p> <p>The inverter contains fatal DC and AC power. All work on the inverter must be carried out by qualified personnel only.</p>
	<p>Beware of hot surface</p> <p>The inverter's housing may reach uncomfortably hot 60 °C (140 °F) under high power operation. Do not touch the inverter enclosure when operation.</p>
	<p>Residual power discharge</p> <p>Do not open the inverter cover until 5 minutes after disconnection both DC and AC power supply.</p>
	<p>Do not dispose of this device with the normal domestic waste.</p>
	<p>Without transformer</p> <p>This inverter does not use transformer for the isolation function.</p>



CE mark

The inverter complies with the requirements of the applicable CE guidelines.



Refer to manual before service.

1.3 System Diagram

The typical on-grid PV system connection diagram.

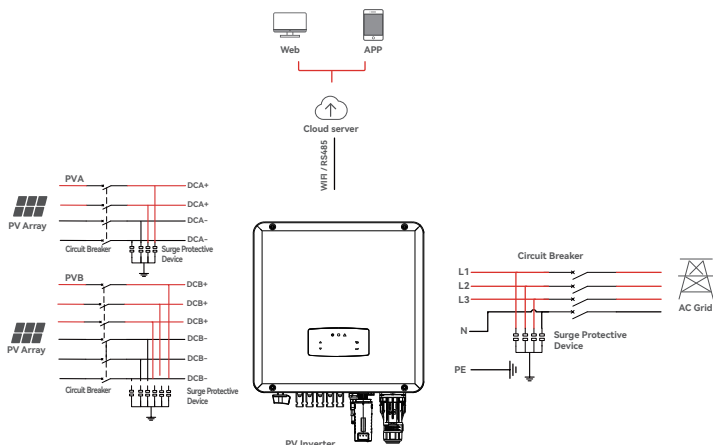


Figure 1-1 System Diagram-1

Circuit Breaker Recommendation

Table 1-2 Circuit Breaker Lists

Model	Max AC Current (A)	Rated current of AC breaker (A)
SI-3P30K-Y1	48	63

Surge Protector Recommendation

- AC side, nominal discharge current 20 kA, second grade lightning protection, protection voltage 2.5 kV.
- DC side, nominal discharge current 20 kA, second grade lightning protection, protection voltage 3.2 kV.



NOTICE

The Inverter can be only connected to low-voltage grid. (380 / 400 / 415 Vac, 50 / 60 Hz).

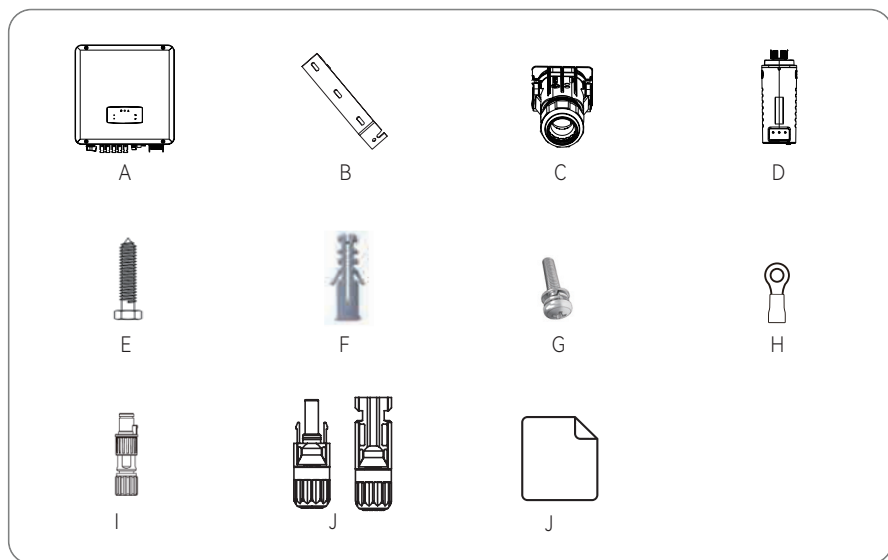
2.1 Pre-installation

2.1.1 Unpacking & Package List

Unpacking

On receiving the inverter, please check to make sure the packing and all components are not missing or damaged. Please contact your dealer directly for supports if there is any damage or missing components.

Packing List



Item	Description	Quantity
A	Solar Inverter	1 pc
B	Wall Mounting Bracket	1 pc
C	AC Waterproof Cover	1 pc
D	Monitor Module	1 pc

Item	Description	Quantity
E	Mounting Bracket Screw	3 pcs
F	Plastic Expansion Tube	3 pcs
G	Security Screw	1 pc
H	Grounding Terminal	1 pc
I	Zero-Injection Connector (Optional)	1 pc
J	DC Connector sets	5 pcs
K	Documents	4 pcs

2.1.2 Product Overview

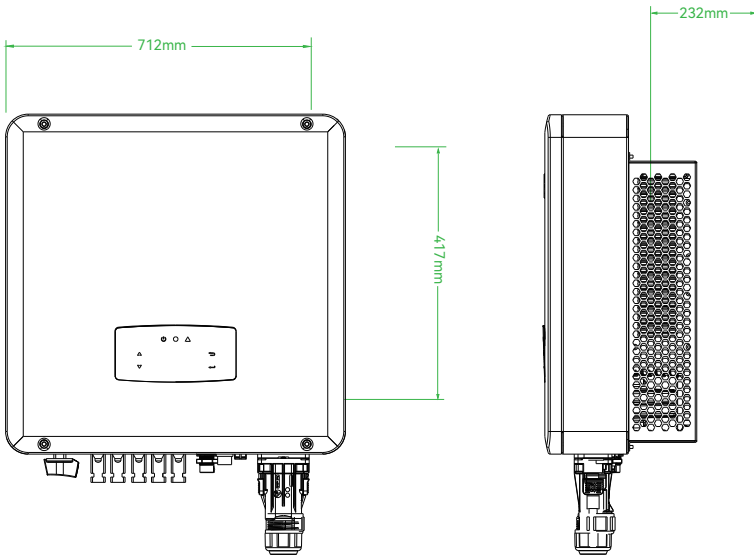


Figure 2-1 Product Overview

Inverter Terminals

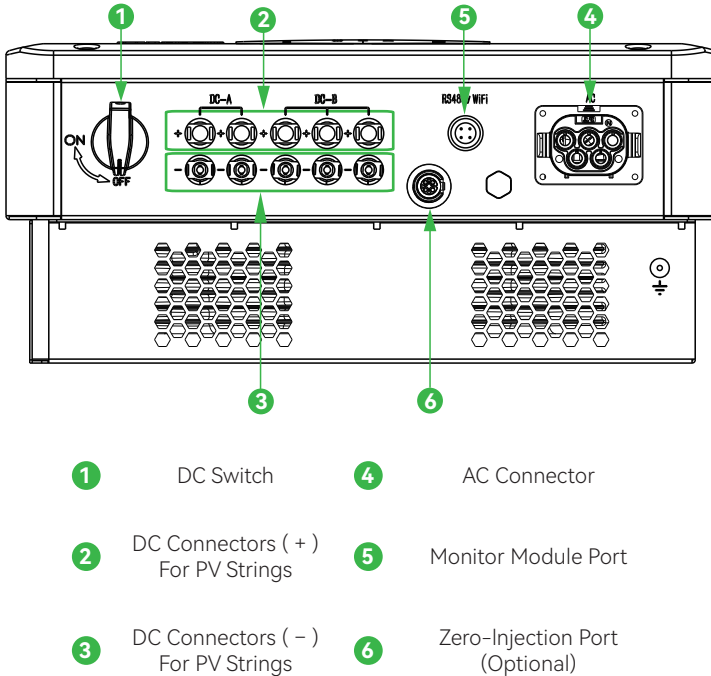
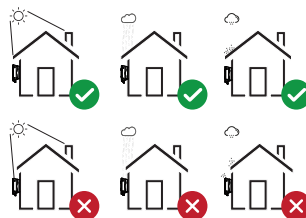


Figure 2-2 Inverter Terminals

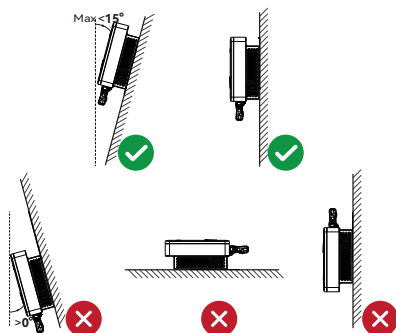
2.1.3 Mounting Location

The inverters are designed for indoor and outdoor installation (IP65), to increase the safety, performance and lifespan of the inverter, please select the mounting location carefully based on the following rules:

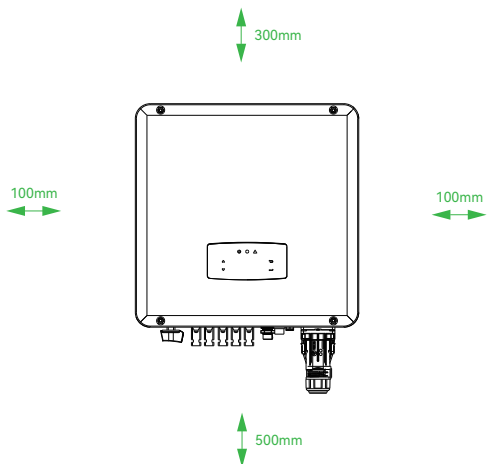
- The inverter should be installed on a solid surface, far from flammable or corrosion materials, where is suitable for inverter's weight and dimensions.
- The ambient temperature should be within $-25^{\circ}\text{C} \sim 60^{\circ}\text{C}$ (between -13°F and 140°F).
- The installation of inverter should be protected under shelter. Do not expose the inverter to direct sunlight, water, rain, snow, spray lightning, etc.



- The inverter should be installed vertically on the wall, or lean back on plane with a limited tilted angle. Please refer to below picture.

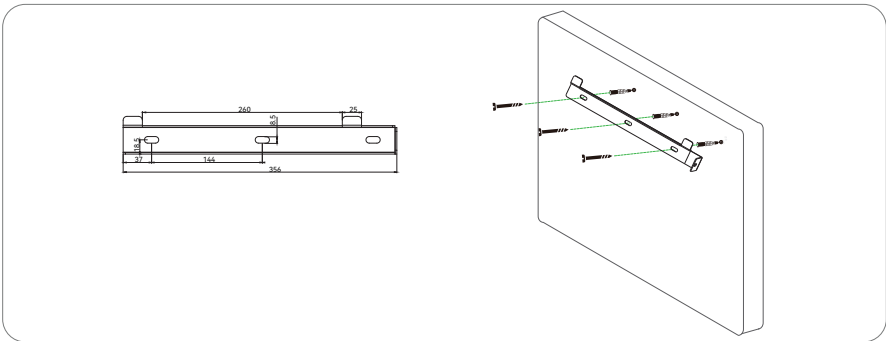


- Leave the enough space around inverter, easy for accessing to the inverter, connection points and maintenance.

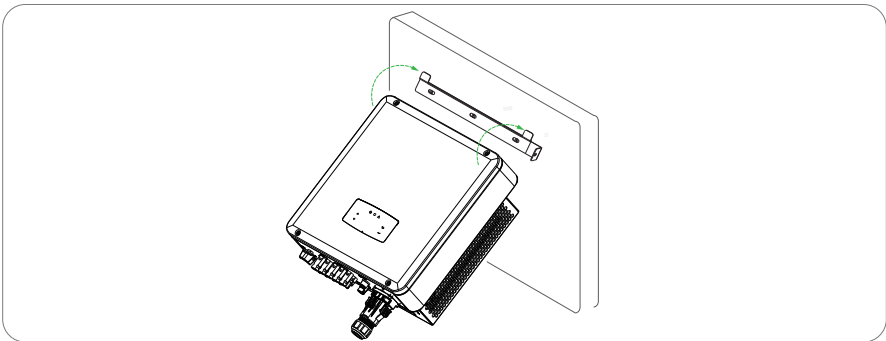


2.2 Mounting

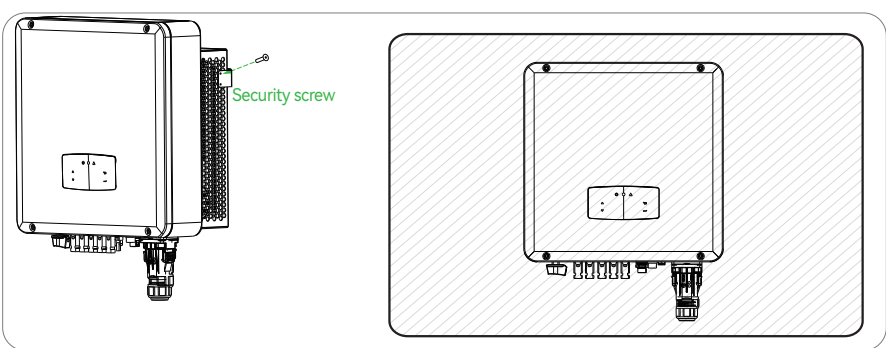
Step 1



Step 2



Step 3



3.1 PV Connection

36 – 40 kW three phase inverters have 3 MPPT channels, each channel includes two PV string input;

50 kW three phase inverters have 3 MPPT channels, channel A and B includes 2 PV string input, and channel C includes 3 PV string inputs;

60 kW three phase inverters have 4 MPPT channels, each channel includes two PV string inputs;

For the best results, make sure that each MPPT channel is correctly connected with PV string. Otherwise, the inverter will activate voltage or current protection automatically..

Please make sure below requirements are followed:

- The open-circuit voltage and short-circuit current of PV string should not exceed the reasonable range of the inverters.
- The isolation resistance between PV string and ground must exceed 10 k Ω .
- The polarity of PV strings are correct.
- Use the DC plugs in the accessory.
- The lightning protector should be equipped between PV string and inverter.
- Disconnect all of the PV (DC) switch during wiring.

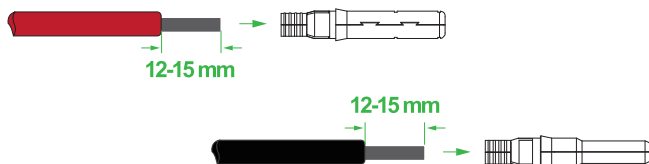


WARNING!

The fatal high voltage may on the DC side, please comply with electric safety when connecting.

Please make sure the correct polarity of the cable connected with inverter, otherwise inverter could be damaged.

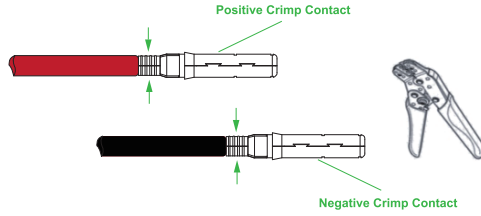
Step 1



NOTICE

PV cable suggestion, Cross-section: 4mm².

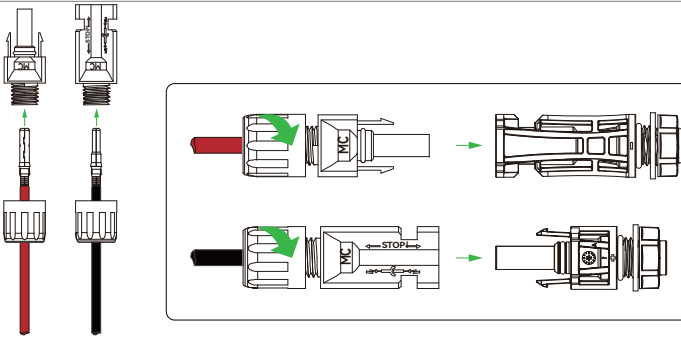
Step 2



i NOTICE

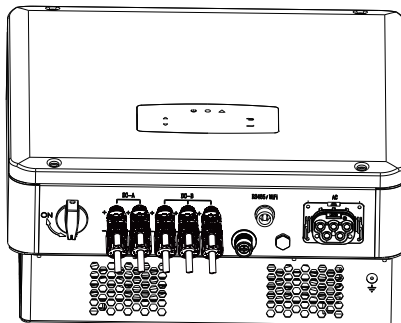
Please use PV connector crimper to pinch the point of the arrow.

Step 3



i NOTICE

You'll hear click sound when the connector assembly is correct.

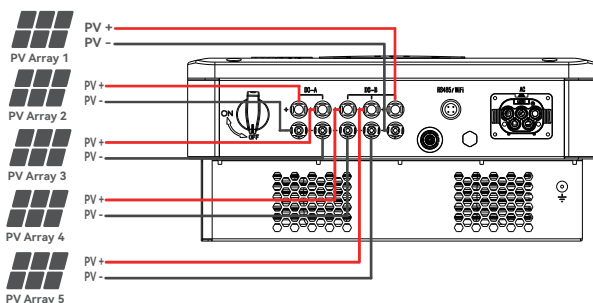


NOTICE

PV string suggestion:

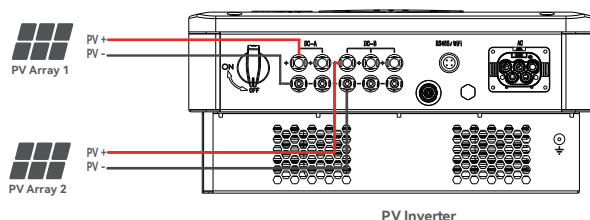
Correct Installation:

Channel A and B are connected with PV string 1, 2, 3, 4 and 5, respectively.



Correct Installation:

Channel A and B connected with PV strings separately.



3.2 Grid Connection

The external AC switch should be installed between inverter and grid to isolate from grid. Please make sure below requirements are followed before connecting AC cable to the inverter.

- The AC (grid) voltage should not exceed the reasonable range of the inverters.
- The phase-line from AC distribution box are correctly connected.
- Use the AC plugs in the accessory.
- The surge protector should be equipped between grid and inverter.
- Disconnect the AC (grid) switch during wiring.



WARNING!

The fatal high voltage may on the AC side, please comply with electric safety when connecting.

Please make sure the right line of AC grid connected with inverter, otherwise inverter could be damaged.

Step 1

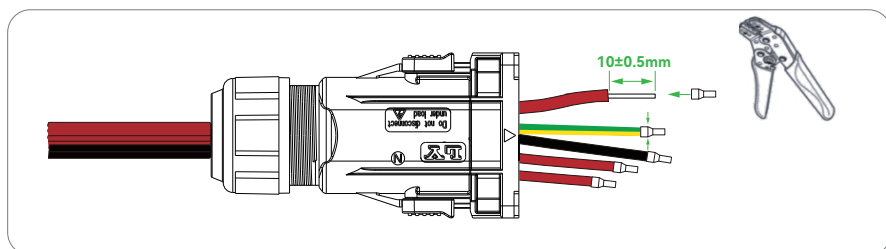
Cable suggestion:

3 – 20 kW Cross-section (Copper) 16 – 25 mm² / 8 AWG

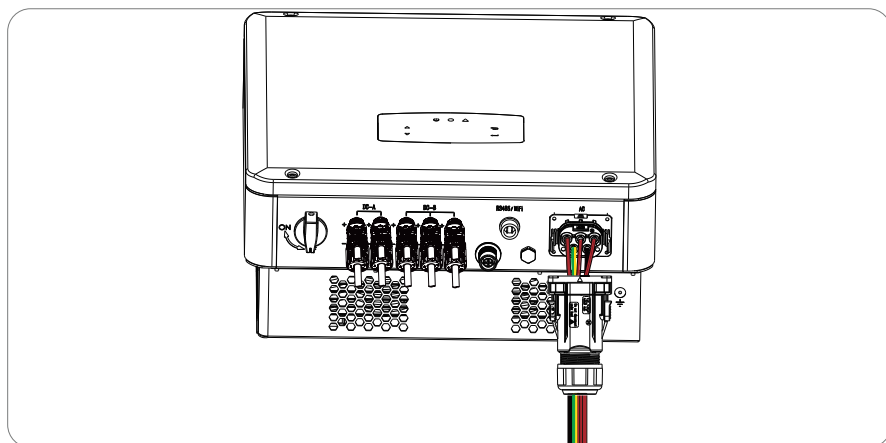
Earth cable PE suggestion:

Cross-section (Copper) 4 – 6 mm² / 10 AWG

Pay attention to the size of the lines, and the pipeline should be close to the wire sterilization layer when pressing.

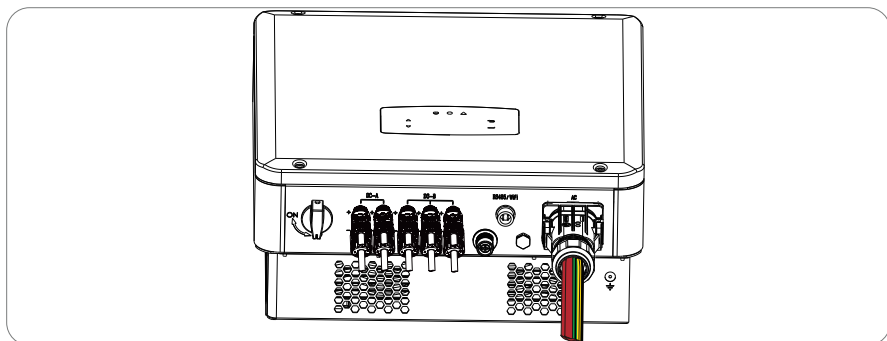


Step 2



N = Neutral line, L1, L2, L3 = Live line, PE = Earth cable

Use the hexagon wrench to loosen the screws in the terminal to a certain distance, insert the wire beam into N, L1, L2, L3, PE hole position and use a hexagon wrench to tighten the screw.



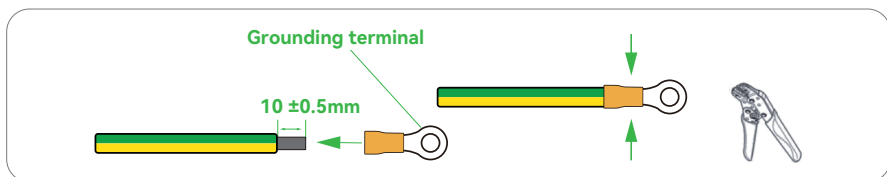
Insert the wiring box into the AC interface and check whether the insertion is in place.

3.3 Earth Connection

NOTICE

The user must connect a protective earth (PE) terminal to prevent electric shock. And make sure this PE terminal is properly grounded.

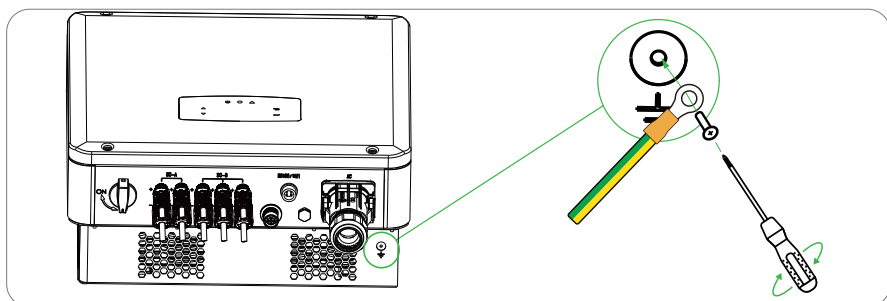
Step 1



NOTICE

Earth cable PE suggestion: Cross-section (Copper) 4–6 mm² / 10 AWG

Step 2



Grounding terminal is connected to the inverter at left or right side.

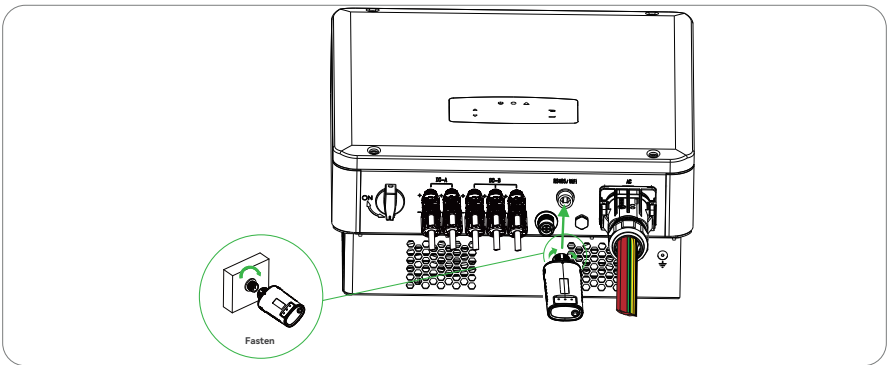
3.4 Communication Connection

The monitoring module could transmit the data to the cloud server, and display the data on the PC, tablet and smart-phone.

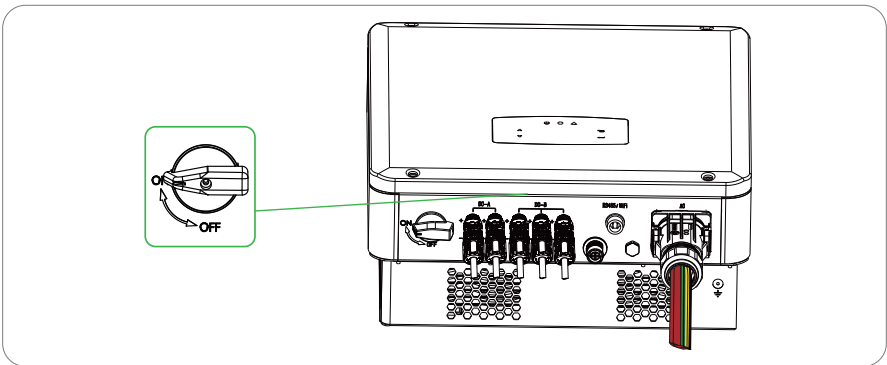
Install the WIFI / Ethernet / GPRS / RS485 Communication

WIFI / Ethernet / GPRS / RS485 communication is applicable to the inverter. Please refer to "Communication Configuration Instruction" for detailed instruction.

Step 1



Step 2

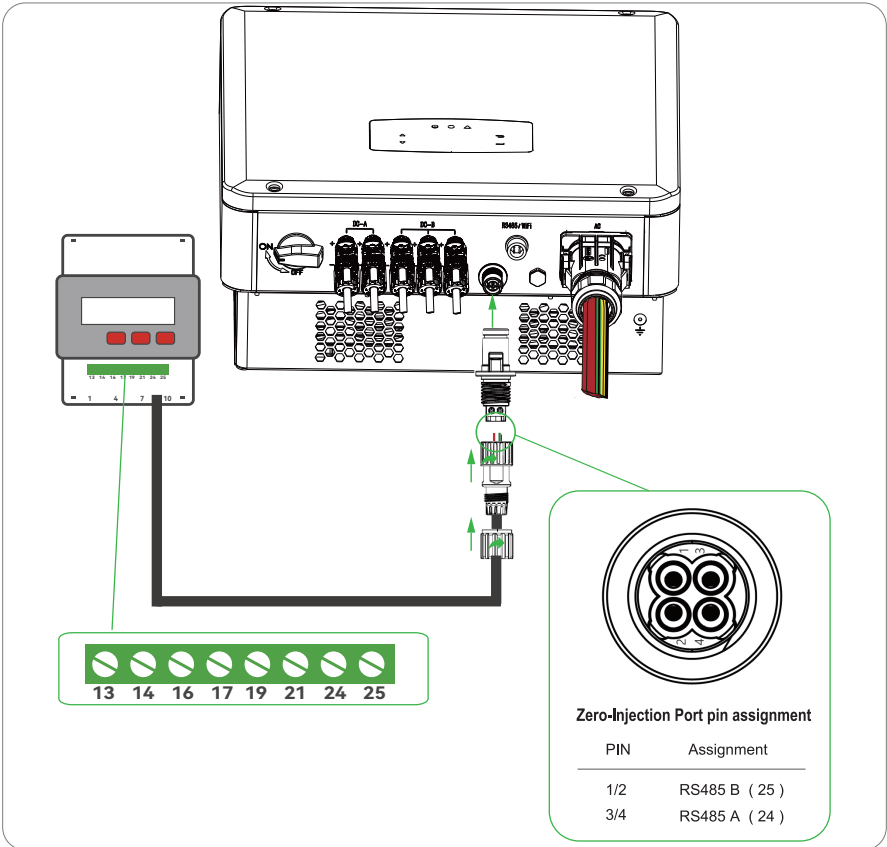


Turn on the DC switch and AC circuit breaker, and wait until the LED indicator on the monitoring module flashes, indicating that the monitoring module is successfully connected.

3.5 Zero-injection Smart Meter (Optional)

Smart meter is an intelligent control equipment which is used for on-grid inverters. Its main function is to measure the forward and reverse power on the grid-connected side, and transmit data to the inverter through RS485 communication to ensure that the power of the inverter is less than or equal to the user's home load, and no current flows into the grid.

Step 1



NOTICE

Please follow below pin order

RS485B (Pin 1/2) to three-phase meter (Pin 25)

RS485A (Pin 3/4) to three-phase meter (Pin 24)

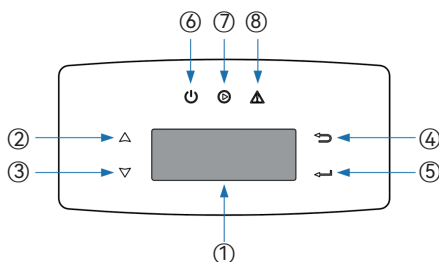
The diagram illustrates the connection of the power supply cable. On the left, a power supply unit (PSU) is shown with a power supply cable connected to its top. The cable has a green arrow pointing upwards, indicating the direction of connection. On the right, the main unit is shown with a power supply cable connected to its bottom. The cable is connected to the main unit's power supply port, which is labeled 'P.S.U.'.

When multiple inverters are connected in parallel, the total output power could not exceed the reasonable range of the smart meter.



15

4.1 Control Panel



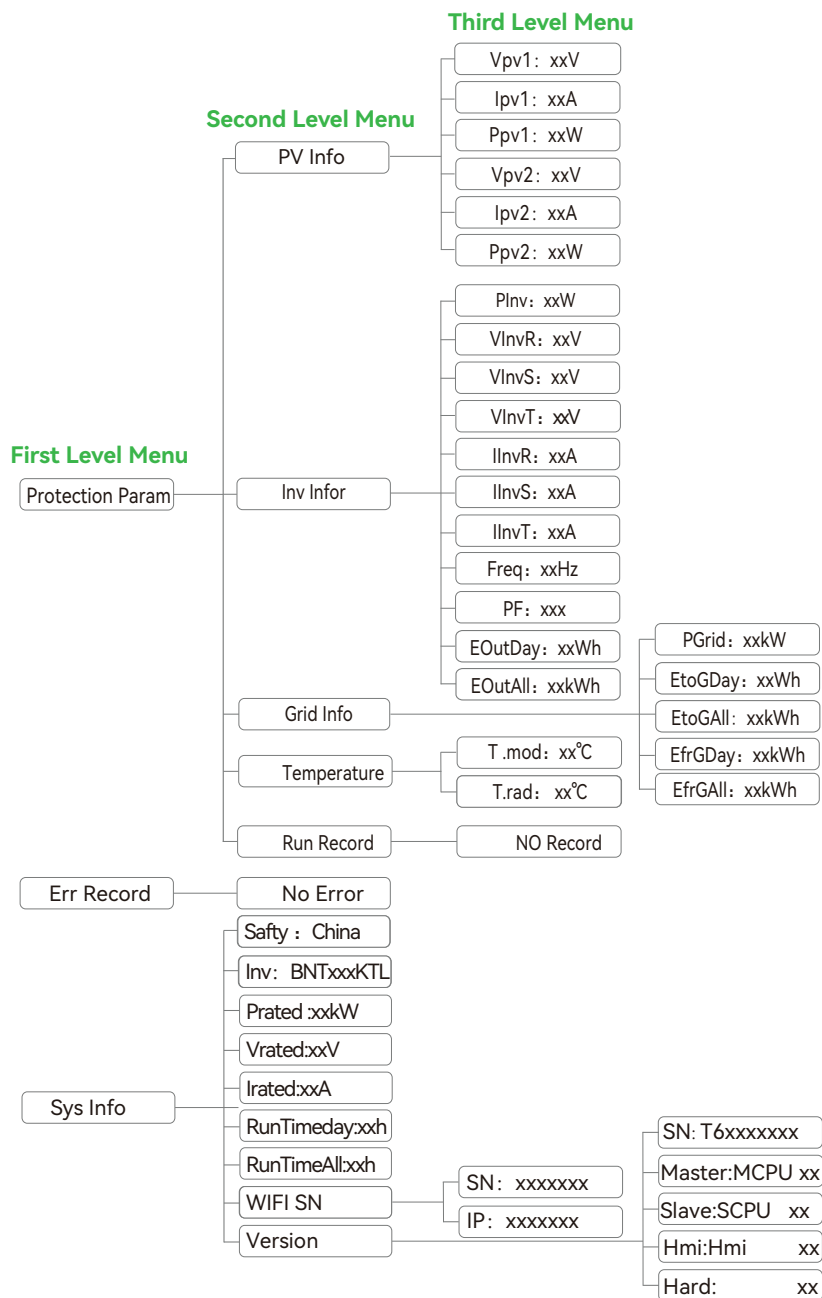
- | | |
|---------------------|-----------------------|
| ① LCD Display | ⑤ ENT Touch Button |
| ② UP Touch Button | ⑥ POWER LED Indicator |
| ③ DOWN Touch Button | ⑦ GRID LED Indicator |
| ④ ESC Touch Button | ⑧ FAULT LED Indicator |

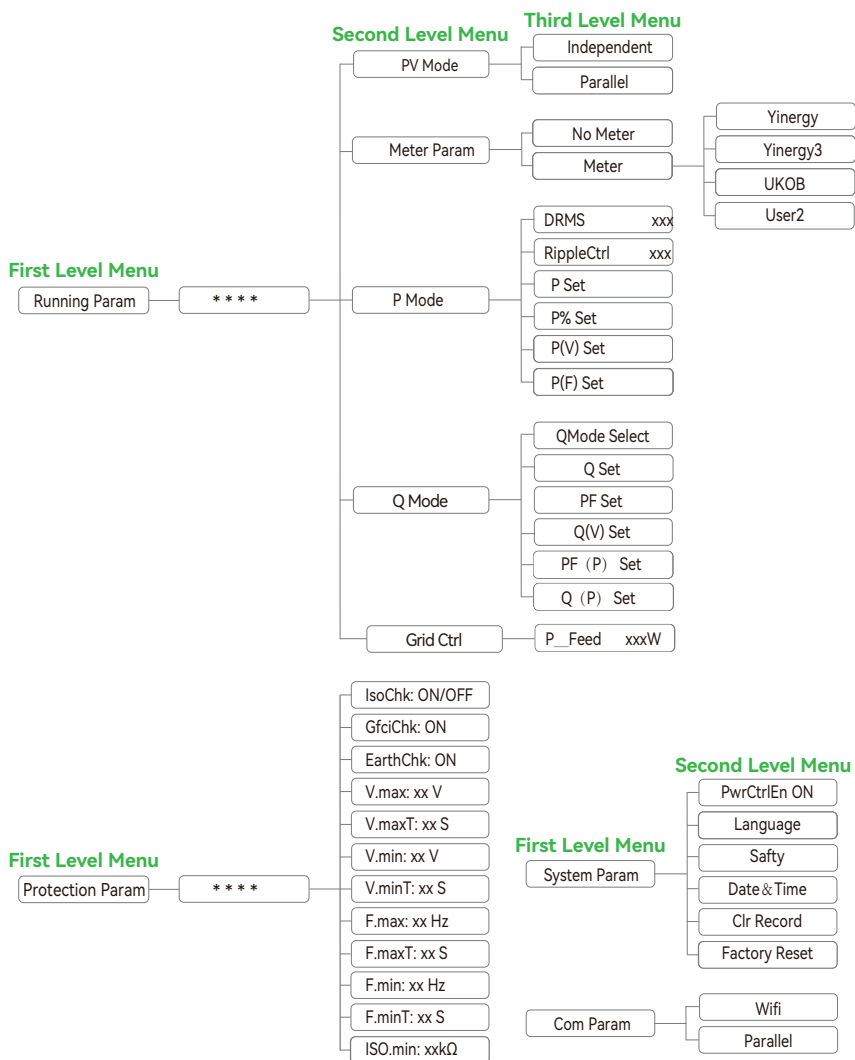
Figure 4-1 Control Panel

Table 4-1 LED Description

Sign	Power	Color	Explanation
POWER	ON	Green	The inverter is stand-by
	OFF		The inverter is power off
GRID	ON	Green	The inverter is feeding power
	OFF		The inverter is not feeding power
FAULT	ON	Red	Fault occurred
	OFF		No fault

4.2 Menu Structure





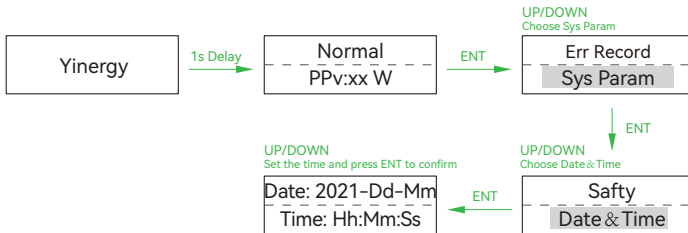
Explanation of LCD Display Content

Nouns	Explanation
Sys Info	Check the inverter's real-time operating information
Error Record	Check the inverter's fault records with date and time

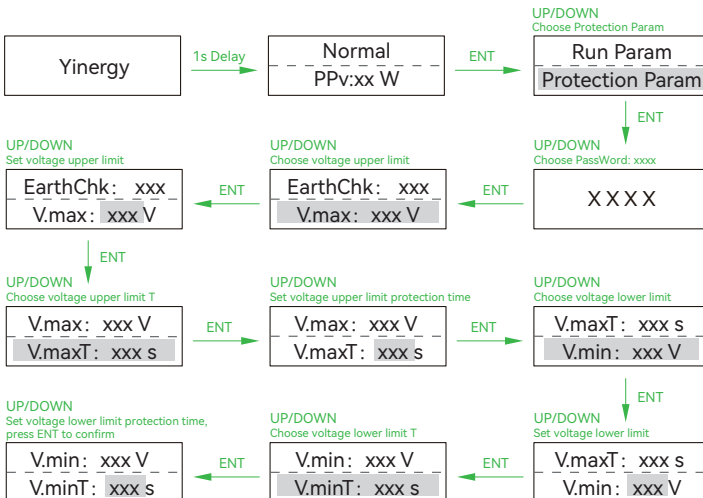
Nouns	Explanation
System Param	Set the inverter's safty code / lanuage / time & date, restore to factory settings
Version	Check the inverter's SN and firmware version
Protection Param	Set the inverter's protection parameters
Running Param	Set the inverter's operating mode like parellel, active / reactive power control

4.3 Setting

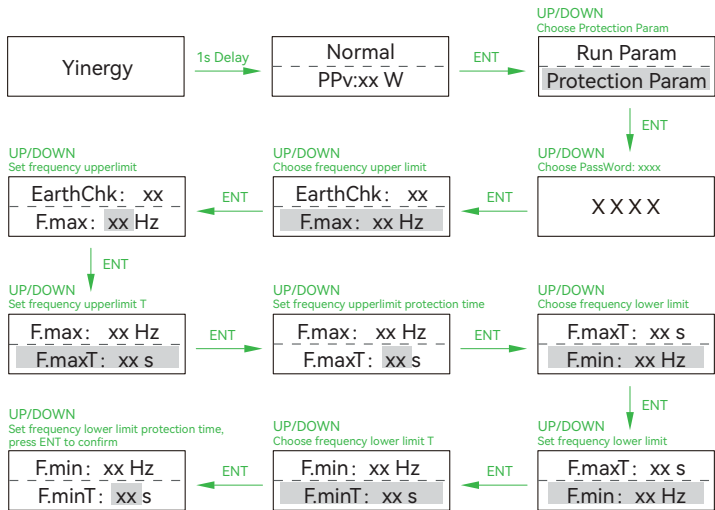
4.3.1 Startup



4.3.2 Voltage Range



4.3.3 Frequency Range



NOTICE

The parameters setting only works after the inverter is restarted.

Before starting up commissioning at site, please make sure below procedures and requirements are fully meet.

- Mounting location is meet the requirements.
- All of the electrical wiring is firmly connected, including PV wiring, Grid wiring and Earth wiring.
- The inverter setting has been finished accordingly to local standards or regulations.

Commissioning Procedures

- Turn on the AC switch between inverter output and the public grid;
- Turn on the DC switch on the inverter;
- Turn on the PV switch of the system.

6.1 Shut Down

- Turn off the DC switch on the inverter.
- Turn off the DC switch between PV panels and the inverter (if any).
- Close the AC switch between the inverter and the public grid.



NOTICE

The inverter will be operable after minimum 5 minutes.

6.2 Restart

- Shut down the inverter according to Chapter 6.1.
- Start-up the inverter according to Chapter 5.

7.1 Maintenance

Periodically maintenance are necessary, please follow steps as below.

PV connection: twice a year

AC connection: twice a year

Earth connection: twice a year

Heat sink: clean with dry towel once a year.

7.2 Troubleshooting

Fault messages will be displayed when fault occurs, please according to troubleshooting table find related solutions.

Troubleshooting List

Type of Fault	Code	Name	Description	Recommend Solution
PV Fault	A01	PvConnectFault	The actual PV connection type (independent, parallel) different from setup.	<ul style="list-style-type: none"> Set PV connection type according to the actual PV connection type.
	A02	IsoFault	ISO check among PV panels/ the wires to the ground is abnormal.	<ul style="list-style-type: none"> Check whether the PV modules and its wiring are immersed in water and whether the insulation is damaged, and then make corrections. If the fault occurs continuously and frequently, contact the local distributors for help.
	A03	PvAfcFault	PV current arcing	<ul style="list-style-type: none"> Check whether the PV cables and wiring terminals are broken or connection abnormal, and correct them. If the fault occurs continuously and frequently, contact the local distributors for help.
	A04	Pvs1OverVoltFault	PV Voltage over, beyond the reasonable range.	<ul style="list-style-type: none"> Reconfiguration of PV strings, reduce the PV number of a PV string to reducing inverter PV input voltage.
	A05	PVs2OverVoltFault		
	A16	PVs1ReverseFault	PV(+) and PV(-) reversed Connection	<ul style="list-style-type: none"> Check whether PV (+) and PV (-) connection reversed or not. If reversed, make correction..
	A17	PVs1ReverseFault		

Type of Fault	Code	Name	Description	Recommend Solution
PV Fault	A33	Pv1AbnormalFault	Compared with previous voltage and other PV voltages, this PV voltage suddenly becomes higher or lower.	<ul style="list-style-type: none"> Check if PV modules are partially blocked or cells are damaged. Check if PV cables and terminals broken or loose connection, then repair it.
	A34	Pv2AbnormalFault		
DC Fault	E01	Pv1HwOverCurrFault	PV current over, triggered the hardware protection circuit	<ul style="list-style-type: none"> Power off, then restart If fault still occurs continuously and frequently, please ask help for local distributors.
	E02	Pvs2HwOverCurrFault		
	E13	PVs1SwOverCurrFault	PV current over, triggered the hardware protection circuit	<ul style="list-style-type: none"> Power off, then restart If fault still occurs continuously and frequently, please ask help for local distributors.
	E14	PVs2SwOverCurrFault		
	E33	Boost1SelfCheckFault	PV boost circuit abnormal when self checking	<ul style="list-style-type: none"> Power off, then restart. If fault still occurs continuously and frequently, please ask help for local distributors.
	E34	Boost2SelfCheckFault		
	E45	BusHwOverVoltFault	Bus voltage over	<ul style="list-style-type: none"> Power off, then restart If fault still occurs continuously and frequently, please ask help for local distributors.
	E46	BusHwOverHalfVoltFault		
	E47	BusSwOverVoltFault		
	E48	BusSwOverHalfVoltFault		
	E49	BusSwUnderVoltFault	Bus voltage under as running	
	E50	BusUnbalancedFault	DC Bus voltage unbalanced	
AC Fault	F01	HwOverFault	Hardware detected that current over / BUS voltage over	<ul style="list-style-type: none"> Power off, then restart If fault still occurs continuously and frequently, please ask help for local distributors.
	F02	InvHwOverCurrFault	Hardware detected that inverter current over	
	F03	InvROverCurrFault	R phase / Split phase L1 current over	
	F04	InvSOverCurrFault	S phase / Split phase L2 current over	
	F05	InvTOverCurrFault	T phase current over	
	F06	GridUnbalanCurrFault	3 phase current effective value has big difference	
	F07	DclnjOverCurrFault	DC injection current over	

Type of Fault	Code	Name	Description	Recommend Solution
AC Fault	F08	AcOverLeakCurrFault	AC side leakage current over	<ul style="list-style-type: none"> Check if PV panels has good ground insulation and ground wires are connected well ground is well, then repair it. Power off, then restart. If fault still occurs continuously and frequently, please ask help for local distributors.
	F09	PLLFault	The phase-locked loop is operating abnormally, and it does not stably track the grid voltage phase.	<ul style="list-style-type: none"> Power off, then restart If fault still occurs continuously and frequently, please ask help for local distributors.
	F10	GridRelay1Fault	It is detected that the relay group 1 cannot be opened or closed normally.	
System Fault	G01	PVs1ReverseFault		<ul style="list-style-type: none"> Power off, then restart If fault still occurs continuously and frequently, please ask help for local distributors.
	G02	PVs2CurAdChanFault		
	G16	RInvCurAdChanFault		
	G17	SInvCurAdChanFault		
	G18	TInvCurAdChanFault		
	G19	RInvDciAdChanFault		
	G20	SInvDciAdChanFault	PV current sampling hardware abnormal	
	G21	TInvDciAdChanFault		
	G22	LeakCurAdChanFault		
	G23	VoltRef(1.65V) AdChanFault		
	G30	UpsRDcvAdChanFault		
	G31	UpsSDcvAdChanFault		
	G32	UpsTDcvAdChanFault		
	G37	TempAdChanFault	All temperature sensors abnormal	
	G38	VoltAdConflictFault	The sample value of PV, battery and BUS voltage inconsistent with the actual value	
	G39	CPUAdConflictFault	The sample value between master CPU and slaver CPU inconsistent	

Type of Fault	Code	Name	Description	Recommend Solution
System Fault	G40	PowerCalcConflictFault	The sum of the PV power, battery and inverter output is too different from zero.	<ul style="list-style-type: none">Power off, then restartIf fault still occurs continuously and frequently, please ask help for local distributors.
	G41	EnvirOverTemp1Fault	Installation environment temperature over or low	<ul style="list-style-type: none">Improve or change the installation environment to adjust the inverter installation environment temperature to normal range.Power off, then restart.If fault still occurs continuously and frequently, please ask help for local distributors.
	G42	EnvirLowTemp1Fault		
	G43	CoolingOverTemp2Fault	Cooling temperature over or low	
	G44	CoolingLowTemp2Fault		
	G45	OverTemp3Fault	Temperature3 over or low	
	G46	LowTemp3Fault		
	G46	DSPOverTempFault	CPU temperature over	
	G48	ModelConflictFault	Version conflict with inverter	
Inner Warning	I01	InterFan1Warning	Fan abnormal	
	I02	ExterFanWarning		
	I03	Fan3Warning		
	I04	EnvirTemp1AdChanWarning	Some temperature sensors abnormal	<ul style="list-style-type: none">The warning does not affect the normal operation of the inverter.Power off, then restart.If fault still occurs continuously and frequently, please ask help for local distributors.
	I05	CoolingTemp2AdChanWarning		
	I06	Temp3AdChanWarning		
	I07	ExtFlashComWarning	Communication between the master CPU and the Flash is abnormal.	<ul style="list-style-type: none">Power off, then restartIf fault still occurs continuously and frequently, please ask help for local distributors.
	I08	EepromComWarning	Communication between the master CPU and the Eeprom is abnormal.	
	I09	SlaveComWarning	Communication between slaver CPU and master CPU is abnormal	
	I10	HmiComWarning	Communication between master CPU and HMI is abnormal	
	I11	FreqCalcConflictWarning	Frequency value abnormal	
	I12	UnsetModel	Running model is not initial	<ul style="list-style-type: none">Contact with local distributor.

Type of Fault	Code	Name	Description	Recommend Solution
Outside Warning	J01	MeterComWarning	Communication between inverter and meter is abnormal	<ul style="list-style-type: none"> • Check the meter model, and whether meter wiring and terminals are connected correctly, damaged or loose, if happens, make corrections. • Power off, then restart. • If fault still occurs continuously and frequently, please ask help for local distributors.
	J02	MeterConnectWarning	Meter / CT wiring fault, or installation position fault.	<ul style="list-style-type: none"> • Check whether the meter or CT wiring, installation position, and installation direction are wrong, and make corrections. • Power off, then restart. • If fault still occurs continuously and frequently, please ask help for local distributors.
	J04	GndAbnormalWarning	Poor grounding or no grounding wire has been detected.	<ul style="list-style-type: none"> • Check whether the ground wire of the inverter is properly connected and whether the ground impedance is over, and make corrections. • Power off, then restart. • If fault still occurs continuously and frequently, please ask help for local distributors.
	J05	ParallelComWarning	Communication between master inverter and slaver ones abnormal in parallel mode.	<ul style="list-style-type: none"> • Check whether the parallel communication line is damaged, the terminal is loose, the wiring hole position is correct, and make corrections. • Power off, then restart. • If fault still occurs continuously and frequently, please ask help for local distributors.

- PV Input

Model	SI-3P30K-Y1
Max. DC Power (W)	45000
Max. DC Voltage (V)	1100
MPPT Voltage Range (V)	200 - 1000
MPPT Full Power Voltage Range (V)	500 - 850
Rated Input Voltage (V)	620
Start-up Voltage (V)	200
Max. Input Current (A)	38 x 2
Max. Short Current (A)	48 x 2
No. of MPP Tracker / No. of PV String	2 / 5
Input Connector Type	MC4

- AC Output

Model	SI-3P30K-Y1
Max. Output Power (W)	33000
Nominal Output Power (W)	30000
Max. Output Current (A)	48
Nominal Output Voltage (V)	3P + N + PE / 3P + PE 230 / 400
Grid Voltage Range	260 Vac - 519 Vac (according to local standard)
Nominal Output Frequency (Hz)	50 / 60
Grid Frequency Range	45 - 55 Hz / 55 - 65 Hz (according to local standard)
Output Power Factor	1 default (adjustable from 0.8 leading to 0.8 lagging)
Output Current THD	< 3%

- Efficiency

Model	SI-3P30K-Y1
Max. Efficiency	98.50%
Euro Efficiency	98.10%

- Protection

Model	SI-3P30K-Y1
PV Reverse Polarity Protection	Yes
PV Insulation Resistance Detection	Yes
AC Short Circuit Protection	Yes
AC Over Current Protection	Yes
AC Over Voltage Protection	Yes
Anti-Islanding Protection	Yes
Residual Current Detection	Yes
Over Temperature Protection	Yes
Integrated DC switch	Yes
Surge Protection	Integrated (Type II)
Smart IV Curve Scanning	Yes
Quick Arc Fault Circuit Interruption	Optional

• General Data

Model	SI-3P30K-Y1
Dimensions (W x H x D, mm)	712 x 427 x 232
Weight (kg)	44
Protection Degree	IP65
Enclosure Material	Aluminum
Ambient Temperature Range (°C)	-25 to 60
Humidity Range	0 - 100%
Topology	Transformerless
Communication Interface	RS485 / WiFi / Wire Ethernet / GPRS (optional)
Cooling Concept	Intelligent Fan Cooling
Noise Emission (db)	< 51
Night Power Consumption (W)	< 1
Max. Operation Altitude (m)	≤ 4000

• Certifications and Standards

Model	SI-3P30K-Y1
EMC Standard	EN/IEC 61000-6-2, EN/IEC 61000-6-3, EN61000-3-2, EN61000-3-3, EN61000-3-11, EN61000-3-12
Safety Regulation	IEC 60068, UL1741, EN62109
Grid-connection	IEEE1547, CSA C22, EN50549, VDE4105, VDE0126, RD1699, ABNT NBR16149 & 16150, AS4777.2, NB/T32004, G98/G99, IEC61727



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