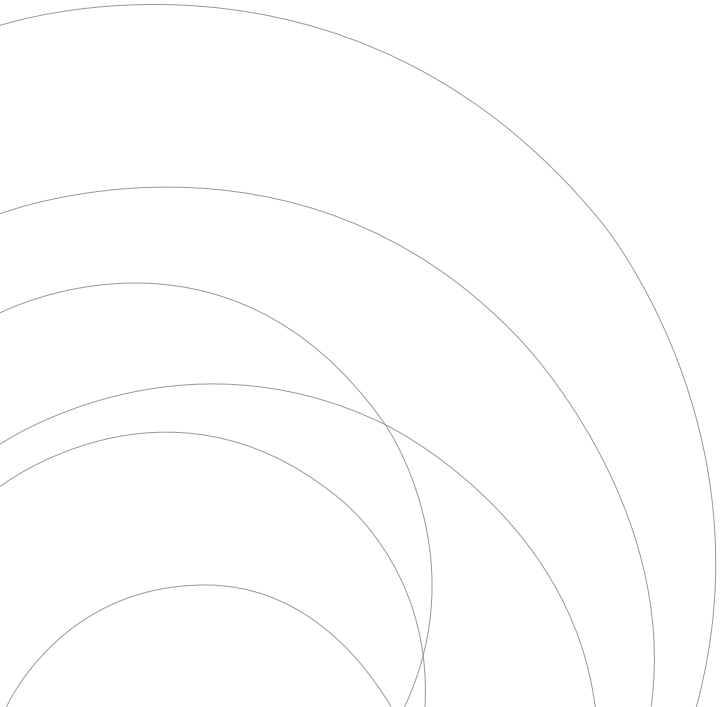
Installation / User Manual

Photovoltaic Grid-connected Microinverter(Built-in WIFI-G4)



Ver:2.2.0

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Important Safety Instructions

This manual contains important instructions to follow during installation and maintenance of the Photovoltaic Grid-connected Inverter(Microinverter).To reduce the risk of electrical shock and ensure the safe installation and operation of the Microinverter the following symbols appear throughout this document to indicate dangerous conditions and important safety instructions.
Specifications subject to change without notice - please ensure you are using the latest manual found at the manufacturer website.

WARNING: This indicates a situation where failure to follow instructions may cause a serious hardware failure or personnel danger if not applied appropriately. Use extreme caution when performing this task.

NOTE: This indicates information that is important for optimized Microinverter operation. Follow these instructions strictly.

CAUTION: IMPORTANT TO READ CAREFULLY AND KEEP FOR EVENTUAL REQUESTS.

Safety Instructions

- ✔ **DO NOT** disconnect the PV module from the Microinverter without disconnecting the AC power.
- ✔ Only qualified professionals should install and/or replace the Microinverters.
- ✔ Perform all electrical installations in accordance with local electrical codes.
- ✔ Before installing or using the Microinverter, please read all instructions and cautionary markings in the technical documents and on the Microinverter system and the solar-array.
- ✔ Be aware that the body of the Microinverter is the heat sink and can reach a temperature of 80℃. To reduce risk of burns,do not touch the body of the Microinverter.
- ✔ When the microinverter is working properly, please maintain a distance of at least 20 cm from it.
- ✔ **DO NOT** attempt to repair the Microinverter. If it fails, contact technical support to obtain an RMA number and start the replacement process. Damaging or opening the Microinverter will void the warranty.
- ✔ Caution!
  The external protective earthing conductor is connected to the inverter protective earthing terminal through AC connector.
  When connecting, connect the AC connector first to ensure the inverter earthing then do the DC connections.
  When disconnecting, disconnect the AC by opening the branch circuit breaker first

but maintain the protective earthing conductor in the branch circuit breaker connect to the inverter ,then disconnect the DC inputs.

- ✔ In any circumstance, do not connect DC input when AC connector is unplugged.
- ✔ Please install isolation switching devices on the AC side of the inverter.

Radio Interference Statement

The equipment could radiate radio frequency energy and this might cause harmful interference to radio communications if not following the instructions when installing and using the equipment. But there is no guarantee that interference will not occur in a particular installation. If this equipment causes harmful interference to radio or television reception,the following measures might resolve the issues:

A) Relocate the receiving antenna and keep it well away from the equipment.

B) Consult the dealer or an experienced radio / TV technical for help.

Changes or modifications not expressly approved by the party responsible for compliance may void the user's authority to operate the equipment.

WiFi information
Frequency range: 2.412~2.472GHz
WiFi maximum transmitting power: 16dBm ± 2dBm
Antenna: External Antenna
Antenna Gain: 2.00dBi

The Meaning of Symbols

Labels	Description
	Caution, risk of electric shock.
	Caution, risk of burn - Do not touch.
	Caution, hot surface.
	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.
	CE mark is attached to the solar inverter to verify that the unit follows the provisions of the European RED Directives.
	Refer to the operating instructions.
Qualified personnel	Person adequately advised or supervised by an electrically skilled person to enable him or her to perceive risks and to avoid hazards which electricity can create. For the purpose of the safety information of this manual, a "qualified person" is someone who is familiar with requirements for safety, refrigeration system and EMC and is authorized to energize,ground, and tag equipment, systems, and circuits in accordance with established safety procedures. The inverter and endues system may only be commissioned and operated by qualified personnel.

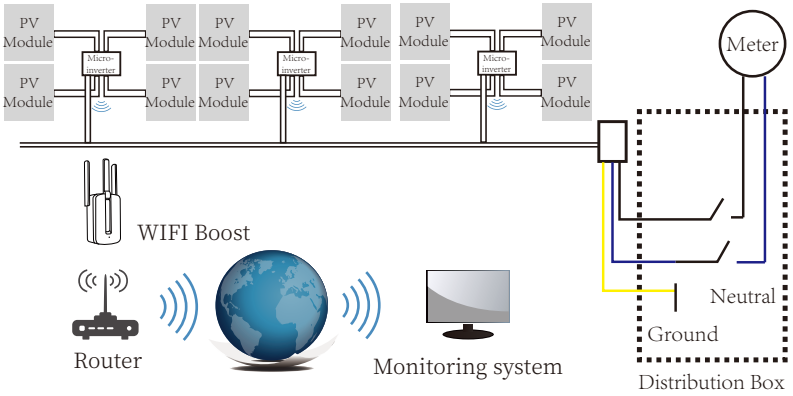
Microinverter System Introduction

The Microinverter is used in utility-interactive grid-tied applications, comprised of two key elements:

- Microinverter
- Router

This series Microinverter has built-in WIFI module so it can communicate with router directly.

130 / 160 / 180 / 200 G4



Inverter Model	SUN-M130 G4-EU-Q0	SUN-M160 G4-EU-Q0	SUN-M180 G4-EU-Q0	SUN-M200 G4-EU-Q0
PV Input Voltage	42.5V (20V-60V)			
PV Array MPPT Voltage Range	25V-55V			
No. of MPP Trackers	4			
No. of Strings per MPP Tracker	1			

NOTE: If the wireless signal in the area where the Microinverter is installed is weak, it is necessary to add a wifi signal booster at a suitable place between the router and the Microinverter.

This integrated system improves safety; maximizes solar energy harvest;increases system reliability, and simplifies solar system design, installation,maintenance, and management.

Microinverters Maximize PV Energy Production

Each PV module has individual Maximum Peak Power Tracking (MPPT) controls, which ensures that the maximum power is exported to the utility grid regardless of the performance of the other PV modules in the array. When PV modules in the array are affected by shade, dust, orientation,or any situation in which one module underperforms compared with the other units, the Microinverter ensures top performance from the array by maximizing the performance of each module within the array.

More Reliable than Centralized or String Inverters

The distributed Microinverter system ensures that no single point of system failure exists across the PV system.Microinverters are designed to operate at full power at ambient outdoor temperatures of up to 113°F (45℃). The inverter housing is designed for outdoor installation and complies with the IP67 environmental enclosure rating.

Simple to Install

You can install individual PV modules in any combination of Module quantity, orientation, different type and power rate. The Ground wire (PE) of the AC cable is connected to the chassis inside of the Microinverter,potentially eliminating the installation of grounding wire (check local regulation).

Data collection adopts internal wifi,wireless router is needed near the Microinverter. When complete the installation of Microinverter,configure wireless router with internal wifi(refer to the wifi user manual).The data will be uploaded automatically.Users can monitor and manage the Microinverter through corresponding website or APP.

Microinverter Introduction

The Microinverters connect with the single-phase grid, and can also use multiple Micro-inverters in the form of single-phase grid to achieve three-phase grid.
For more information, please see the Technical Data page (P16-P19) of this manual.

Model Number	AC grid	Max. # Per branch
SUN-M130G4-EU-Q0	50/60Hz, 230V	5 for 40A breaker
SUN-M160G4-EU-Q0	50/60Hz, 230V	4 for 40A breaker
SUN-M180G4-EU-Q0	50/60Hz, 230V	3 for 40A breaker
SUN-M200G4-EU-Q0	50/60Hz, 230V	3 for 40A breaker

Microinverter System Installation

A PV system using Microinverters is simple to install. Each Microinverter easily mounts on the PV racking, directly beneath the PV module(s). Low voltage DC wires connect from the PV module directly to the Microinverter, eliminating the risk of high DC voltage.Installation MUST comply with local regulations and technical rules.

WARNING: Perform all electrical installations in accordance with local electrical codes.

WARNING: Be aware that only qualified professionals should install and/or replace Microinverters.

WARNING: Before installing or using an Microinverter,please read all instructions and warnings in the technical documents and on the Microinverter system itself as well as on the PV array.

WARNING: Be aware that installation of this equipment includes the risk of electric shock.

NOTE: Strongly recommend to install Surge protection Devices in the dedicated meter box.

NOTE: The product is suitable for residential, commercial and light industrial environments, not for industrial environments.

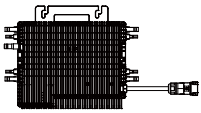
Required Parts and Tools from you

In addition to your PV array and its associated hardware, you will need the following items:

- An or several AC connection junction boxes
- Mounting hardware suitable for module racking
- Sockets and wrenches for mounting hardware
- Continuous grounding conductor and grounding washers
- A Phillips screwdriver
- A torque wrench

Parts list

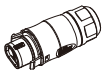
Please check the following table, to see whether all the parts are included in the package:



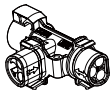
Microinverter x1

User manual x1

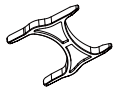
AC extension cable
(optional) x N-1



Bus AC connector
(optional) x1



T-connector
(optional) x N-1

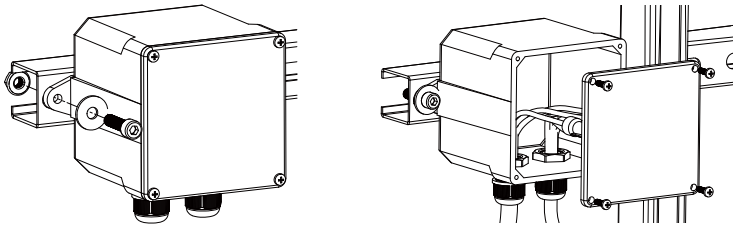


Clip x1

* Choose either Bus AC connector or Extension cable with European standard plug, can't use them in the same project.
* The externa relay has been well connected with Microinverter before delievery, and it can't be disconnected with Microinverter by customer or distributor by themselves. The unauthorized disconnection of external relay with Microinverter will cause the invalid of warranty.

Installation Procedures

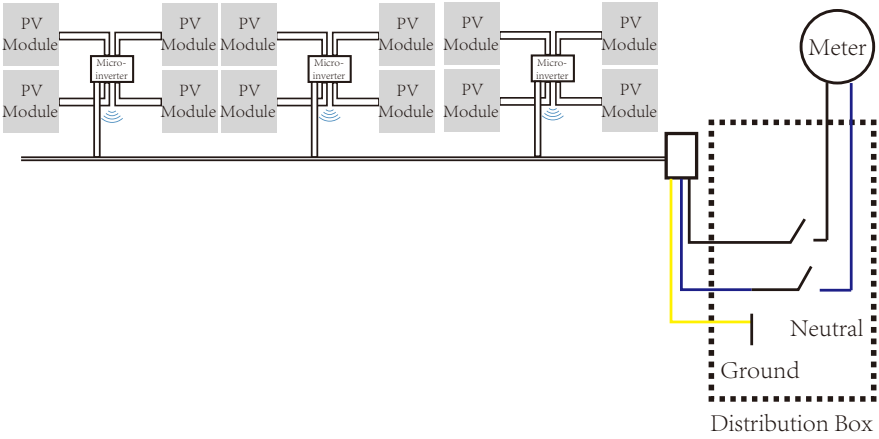
Step 1 - Install the AC branch circuit junction box



a. Install an appropriate junction box at a suitable location on the PV racking system (typically at the end of a branch of modules).

b. Connect the open wire end of the AC cable into the junction box using an appropriate gland or strain relief fitting.

c. Connect the AC branch circuit junction box to the point of utility Grid Interconnection (Usually it is inside a distribution box).

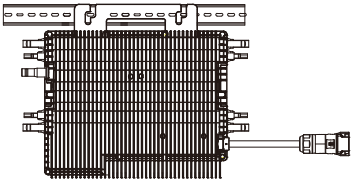


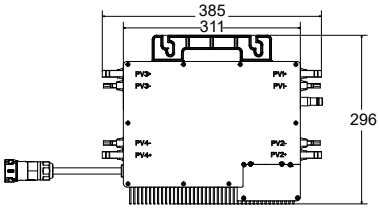
WARNING: Wiring colour code can be different according local regulation,check all the wires of the installation before connecting to the AC cable to be sure they match. Wrong cabling can damage irreparably the Microinverters,such an issue is not covered by the warranty.

Step 2 - Attach the Microinverters to the racking or the PV module frame

a. Mark the location of the Microinverter on the rack, with respect to the PV module and junction box or any other obstructions.

b. Mount one Microinverter at each of these locations using hardware recommended by your module racking vendor.





130 / 160 / 180 / 200 G4 (4MPPT) Mounting

The AC wire on the Microinverter is a TC-ER wire with a wire cross-section area of 1mm^2(16AWG).

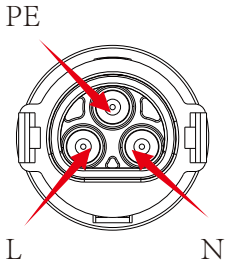
WARNING: Prior to installing any of the Microinverters, verify that the utility voltage at the point of common connection matches the voltage rating on Microinverter label.

WARNING: Do not place the inverters (including DC and AC connectors) where exposed to the sun, rain or snow, even gap between modules.Allow a minimum of 3/4 (1.5cm.) between the roof and the bottom of the Microinverter to allow proper air flow.

Step 3 - Connect the Microinverters in parallel

a. Check the Microinverter technical data page 6 for the maximum allowable number of Microinverters on each AC branch circuit.

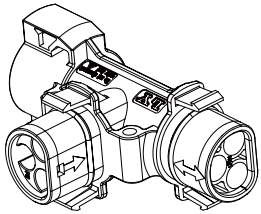
b. As to parallel connection, please refer to page (P20-P21), use the T-connector, AC extension cable, Bus AC connector to connect the Microinverter in each branch.



Male connector

Model	Wire Size	Cable(mm)^2	Torque value(max)	Max cable length
SUN-M130G4-EU-Q0	10AWG	4.0	1.0Nm	Outside cable (L+N+PE)20m
SUN-M160G4-EU-Q0	10AWG	4.0	1.0Nm	
SUN-M180G4-EU-Q0	10AWG	4.0	1.0Nm	
SUN-M200G4-EU-Q0	10AWG	4.0	1.0Nm	

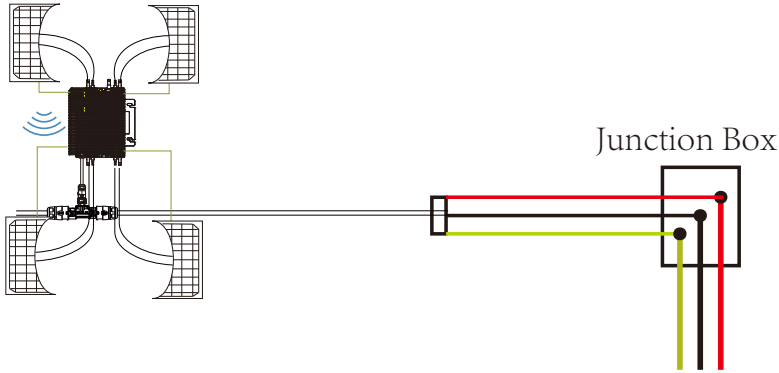
WARNING: DO NOT exceed maximum number of Microinverters in an AC branch circuit, as displayed on the page 6 of this manual.



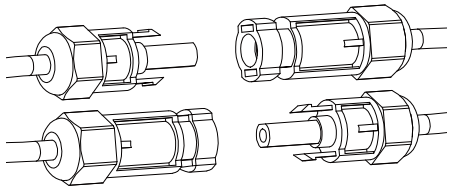
T-connector

NOTE: Port marked with two-way arrow on T-type plug can only connect with extended cable and Port marked with one-way arrow on T-type plug can only connect with Microinverter.

Step 4 - Connect the wire open of branch end to the junction box.



Step 5 - Connect Microinverter to the PV Modules



General Guidelines:
a. PV modules should be connected to DC input ports of a Microinverter.
b. In order to meet the relevant regulatory requirements, the cable length must be <3M. Please consult the local power operator to make sure that the DC cable complies with local regulations.

NOTE: When plugging in the DC cables, if AC already available,the Microinverter should immediately blink red light and will start work within the setting time (default 60 seconds). If AC is not available,the red light will blink 3 times quickly and repeat after one second until AC is connected.

Microinverter System Operating Instructions

To operate the Microinverter PV system:

1. Turn ON the AC circuit breaker on each Microinverter AC branch circuit.
2. Turn ON the main utility-grid AC circuit breaker. Your system will start producing power after a one-minute waiting time.

3. The units should start blinking red one minutes after turning on the AC circuit breaker. Then blue led blinking. This means they are producing power normally, the faster blinking of the blue led means more power generated.

4. Configure the internal wifi module according to its user manual.

5. The Microinverters will start to send performance data over wifi module to the network every 5 minutes.It enables customers to monitor performance data of each Microinverter through website and APP.

When AC power is applied but the Microinverter not started up, about 0.1A current and 25VA power for each Microinverter may be measured by a power meter. This power is reactive power,not consume from utility grid.

Troubleshooting

Qualified personnel can use the following troubleshooting steps if the PV system does not operate correctly:

Status Indications and Error Reporting

Start up LED

One minute after DC power is first applied to the Microinverter,one short red blinks indicate a successful Microinverter startup sequence, be equal or greater than two short red blinks after DC power is first applied to the Microinverter indicate a failure during Microinverter setup.

Operation LED

Flashing Slow Blue	- Producing small power
Flashing Fast Blue	- Producing big power
Flashing Red	- Not producing power
Red blinking two times	- AC low-voltage or high-voltage
Red blinking seven times	- Grid failure

GFDI Error

A four time red LED indicates the Microinverter has detected a Ground Fault Detector Interrupter (GFDI) error in the PV system. Unless the GFDI error has been cleared, the LED will remain four times blinking.

Other Faults

All other faults can be reported to the website and APP.

WARNING: Never disconnect the DC wire connectors under load. Ensure that no current is flowing in the DC wires prior to disconnecting. An opaque covering may be used to cover the module prior to disconnecting the module.

Troubleshooting a non-operating Microinverter

There are two possible overall areas of trouble:
A. The Microinverter itself may be having problems.
B. The Microinverter itself is working fine but the communication between Microinverter and network has problem. The items below refer to Microinverter issues, not communicat -ion issues:

One quick way to tell whether the issue is the Microinverter or the communication problem:

Diagnosing from the network:

a. No-Data-Display: The website and APP don't display any data.Check the network configuration.

b. Only display Microinverter is online but no data.This maybe because server is updating.

To troubleshoot a non-operating Microinverter, Follow the steps below in order:

1. Verify the utility voltage and frequency are within ranges shown in the Technical Data section of this manual.
2. Check the connection to the utility grid.Disconnect AC firstly,then disconnect DC and make sure the utility grid voltage can be measured at AC connector. Never disconnect the DC wires while the Microinverter is producing power. Re-connect the DC module connectors and watch for three short LED flashes.
3. Check the AC branch circuit interconnection between all the Microinverters. Verify each inverter is energized by the utility grid as described in the previous step.
4. Make sure that any AC breaker are functioning properly and are closed.
5. Check the DC connections between the Microinverter and the PV module.
6. Verify the PV module DC voltage is within the allowable range shown in the Technical Data of this manual.
7. If the problem still persists, please contact technical support.

WARNING: Do not attempt to repair the Microinverter.If troubleshooting methods fail, please call for Technical Support

Replacement

Follow the procedure to replace a failed Microinverter

A. Disconnect the Microinverter from the PV Module, in the order shown below:

1. Disconnect the AC by turning off the branch circuit breaker.
2. Disconnect the AC connector of the Microinverter.
3. Cover the module with an opaque cover.
4. Disconnect the PV module DC wire connectors from the Microinverter.
5. Remove the Microinverter from the PV array racking.

B. Install a replaced Microinverter to the bracket then remove the opaque cover. Remember to observe the flashing LED light as soon as the new Microinverter is plugged into the DC cables.

C. Connect the AC cable of the replacement Microinverter.

Technical Data

WARNING: Be sure to verify the voltage and current specifications of your PV module match with those of the Microinverter. Please refer to the datasheet or user manual.

WARNING: You must match the DC operating voltage range of the PV module with the allowable input voltage range of the Microinverter.

WARNING: The maximum open circuit voltage of the PV module must not exceed the specified maximum input voltage of the inverter.

M130/160/180G4 Microinverter Datasheet

Model	SUN-M130G4-EU-Q0	SUN-M160G4-EU-Q0	SUN-M180G4-EU-Q0
PV String Input Data			
Max. PV Input Power(W)	210-460(4 Pieces)	210-560(4 Pieces)	210-630(4 Pieces)
Max. PV Input Voltage(V)	60		
Start-up Voltage(V)	20		
PV input voltage range(V)	20-60		
MPPT voltage range(V)	25-55		
Full Load MPPT Voltage Range(V)	29-55	31.5-55	33-55
Rated PV input voltage(V)	42.5		
Max. Input Short-Circuit Current (A)	22.5×4		
Max. Operating PV Input Current(A)	15×4		
No. of MPP Trackers/No. of Strings MPP Tracker	4/1		
Max. Inverter Backfeed Current To the Array	0		
AC Output Side			
Rated AC Output Active Power(W)	1300	1600	1800
Max.AC Output Apparent Power(VA)	1300	1600	1800
Rated AC output current (A)	6.0/5.7	7.3/7	8.2/7.9
Max.AC Output Current(A)	6.0/5.7	7.3/7	8.2/7.9
Max. Output Fault Current(A)	16		
Max. Output Overcurrent Protection (A)	42		
Rated output voltage/range (V)	220/230V 0.85Un-1.1Un		
Grid Connection Form	L+N+PE		
Rated Output Grid Frequency/range(Hz)	50Hz/45Hz-55Hz 60Hz/55Hz-65Hz		
Max. unit per branch	5	4	3
Power Factor Adjustment Range	0.9leading-0.9lagging/0.95leading-0.95lagging(VDE4105)		
Total Current Harmonic Distortion THDi	<3%		
DC Injection Current	<0.5%In		
Efficiency			
Max. Efficiency	96.5%		
Euro Efficiency	96.0%		
MPPT Efficiency	>99%		
Equipment Protection			
DC Polarity Reverse Connection 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		
Anti-islanding protection	yes		
Surge Protection Level	TYPE II(AC)		

M130/160/180G4 Microinverter Datasheet

Model	SUN-M130G4-EU-Q0	SUN-M160G4-EU-Q0	SUN-M180G4-EU-Q0
Interface			
Communication Interface	WiFi		
General Data			
Operating Temperature Range (°C)	-40 C to +65 C , >45 C derating		
Permissible Ambient Humidity	0-100%		
Permissible Altitude (m)	2000m		
Noise (dB)	≤ 25 dB		
Ingress Protection(IP) Rating	IP 67		
Inverter Topology	Isolated		
Over Voltage Category	OVC II(DC),OVC III(AC)		
Cabinet Size（W*H*D）[mm]	311×250.5×36.5 (Excluding connectors and brackets)		
Weight [kg]	5.1		
Warranty [year]	Standard 10 years, extended warranty		
Type Of Cooling	Natural cooling		
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G98, VDE-AR-N 4105		
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		

M200G4 Microinverter Datasheet

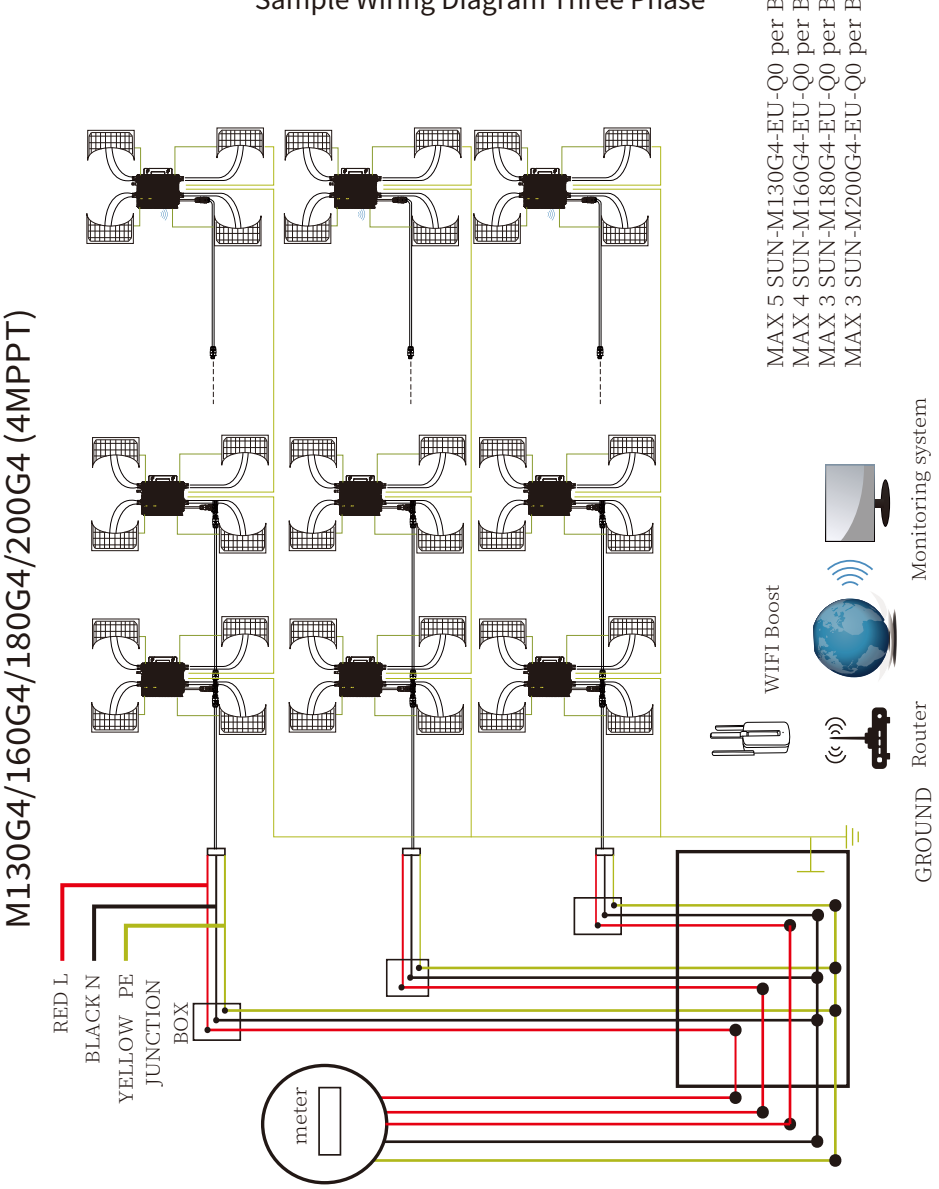
Model	SUN-M200G4-EU-Q0
PV String Input Data	
Max. PV Input Power(W)	210-700(4 Pieces)
Max. PV Input Voltage(V)	60
Start-up Voltage(V)	20
PV input voltage range(V)	20-60
MPPT voltage range(V)	25-55
Full Load MPPT Voltage Range(V)	36.5-55
Rated PV input voltage(V)	42.5
Max. Input Short-Circuit Current (A)	22.5×4
Max. Operating PV Input Current(A)	15×4
No. of MPP Trackers/No. of Strings MPP Tracker	4/1
Max. Inverter Backfeed Current To the Array	0
AC Output Side	
Rated AC Output Active Power(W)	2000
Max.AC Output Apparent Power(VA)	2000
Rated AC output current (A)	9.1/8.7
Max.AC Output Current(A)	9.1/8.7
Max. Output Fault Current(A)	16
Max. Output Overcurrent Protection (A)	42
Rated output voltage/range (V)	220/230V 0.85Un-1.1Un
Grid Connection Form	L+N+PE
Rated Output Grid Frequency/range(Hz)	50Hz/45Hz-55Hz 60Hz/55Hz-65Hz
Max. unit per branch	3
Power Factor Adjustment Range	0.9leading-0.9lagging/0.95leading-0.95lagging(VDE4105)
Total Current Harmonic Distortion THDi	<3%
DC Injection Current	<0.5%In
Efficiency	
Max. Efficiency	96.5%
Euro Efficiency	96.0%
MPPT Efficiency	>99%
Equipment Protection	
DC Polarity Reverse Connection 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
Anti-islanding protection	yes
Surge Protection Level	TYPE II(AC)

M200G4 Microinverter Datasheet

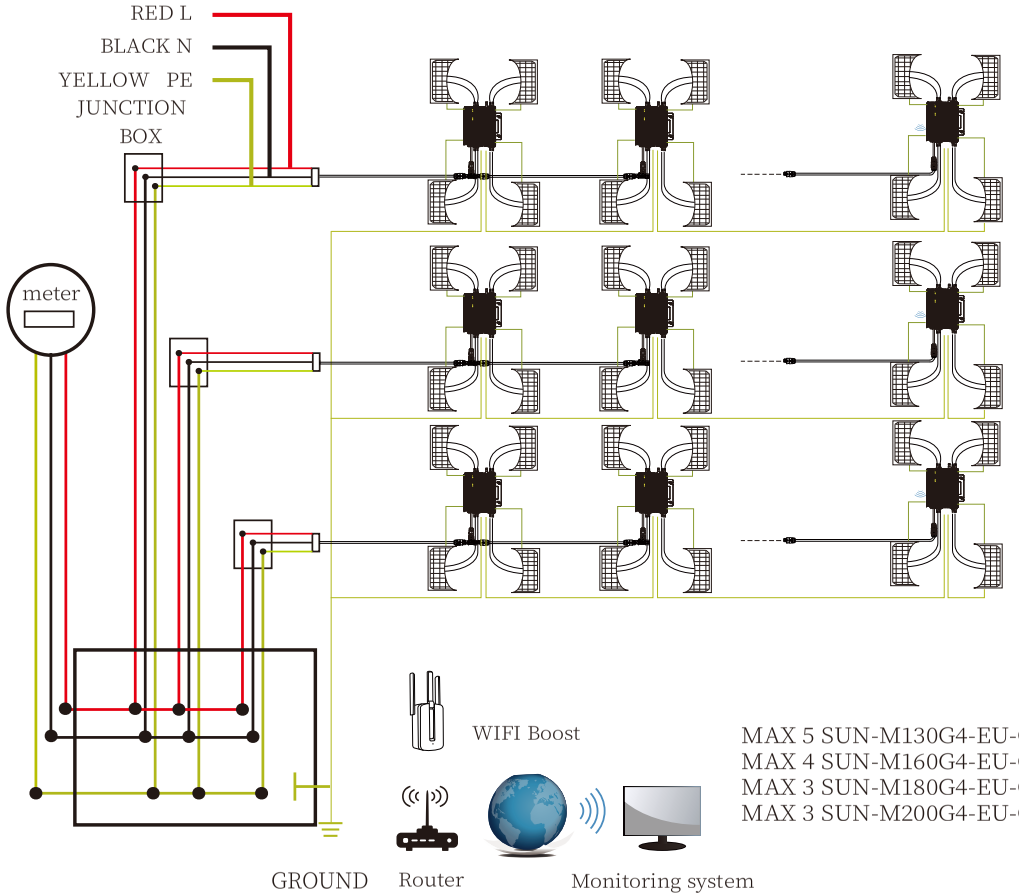
Model	SUN-M200G4-EU-Q0
Interface	
Communication Interface	WiFi
General Data	
Operating Temperature Range (°C)	-40℃ to +65℃, >45℃ derating
Permissible Ambient Humidity	0-100%
Permissible Altitude (m)	2000m
Noise (dB)	≤ 25 dB
Ingress Protection(IP) Rating	IP 67
Inverter Topology	Isolated
Over Voltage Category	OVC II(DC),OVC III(AC)
Cabinet Size（W*H*D）[mm]	311×250.5×36.5 (Excluding connectors and brackets)
Weight [kg]	5.1
Warranty [year]	Standard 10 years, extended warranty
Type Of Cooling	Natural cooling
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G98, VDE-AR-N 4105
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2

* Note : 15 years warranty (only installed in Germany and Austria)

Wiring Diagram



M130G4/160G4/180G4/200G4 (4MPPT)



MAX 5 SUN-M130G4-EU-Q0 per Branch
MAX 4 SUN-M160G4-EU-Q0 per Branch
MAX 3 SUN-M180G4-EU-Q0 per Branch
MAX 3 SUN-M200G4-EU-Q0 per Branch

Sample Wiring Diagram Single Phase

Monitoring Platform

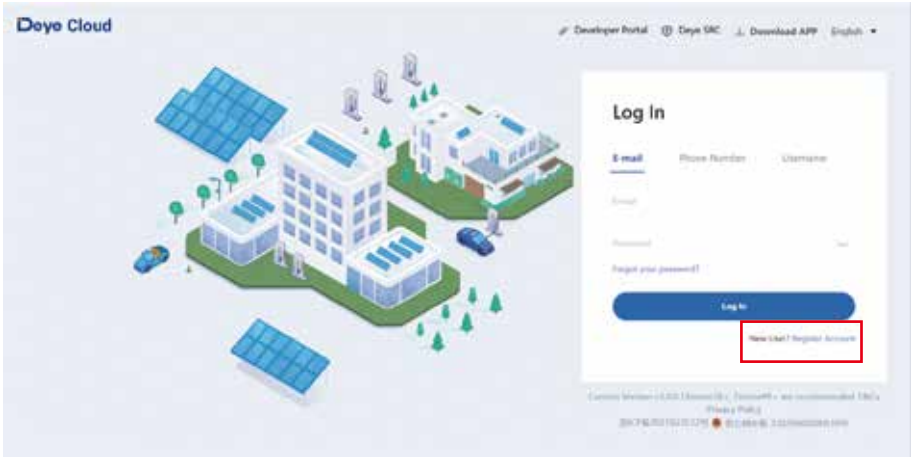
This series of microinverters comes with a built-in Wi-Fi module that allows for direct connection to the router. This feature enables users to remotely monitor and manage their solar system on Deye Cloud via web platform or mobile app. Follow the instructions to setup your plant.

1. Monitoring via Web Platform

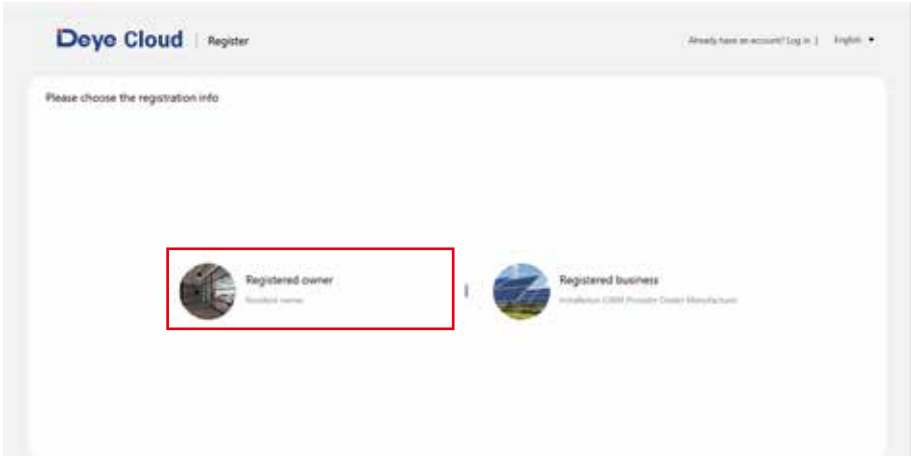
1.1 Preparations

Step 1. Register and log in

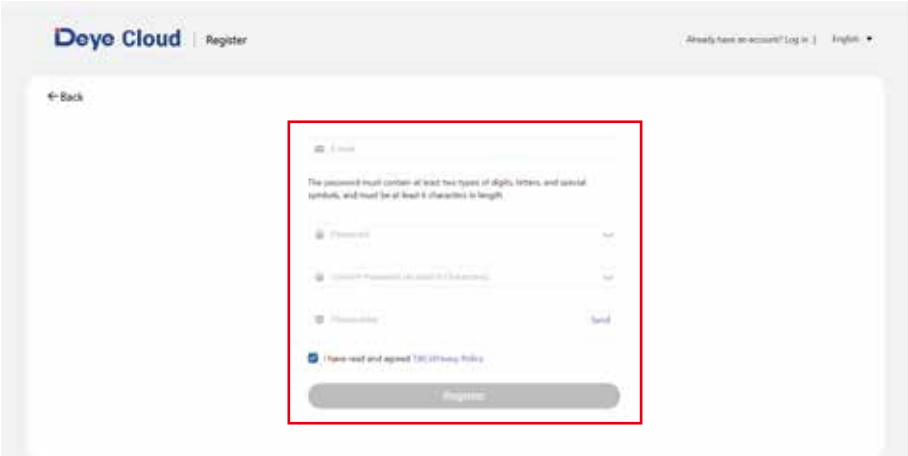
* Enter https://www.deyecloud.com/login in browser and click "Register Account" at the bottom right of this page.



* Choose your identity as a residential or business user.

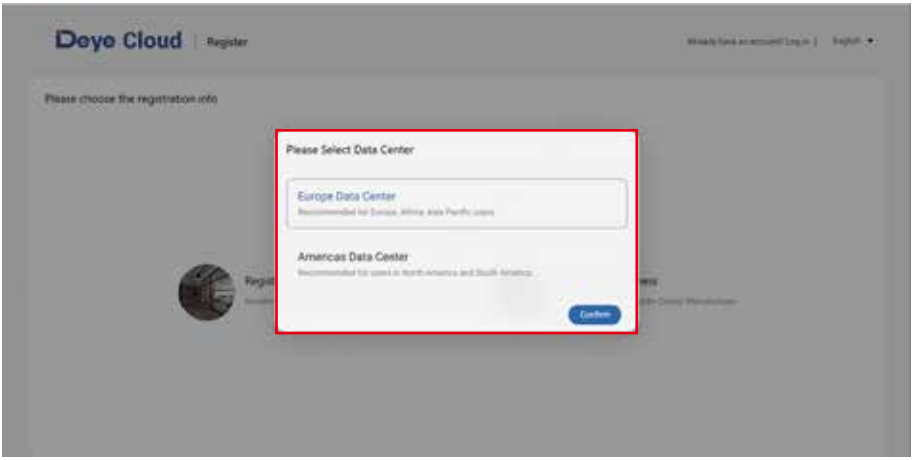


* Enter the required information like email address, password, verification code, check "T&Cs and Privacy Policy" and click "Register" to create a new account.

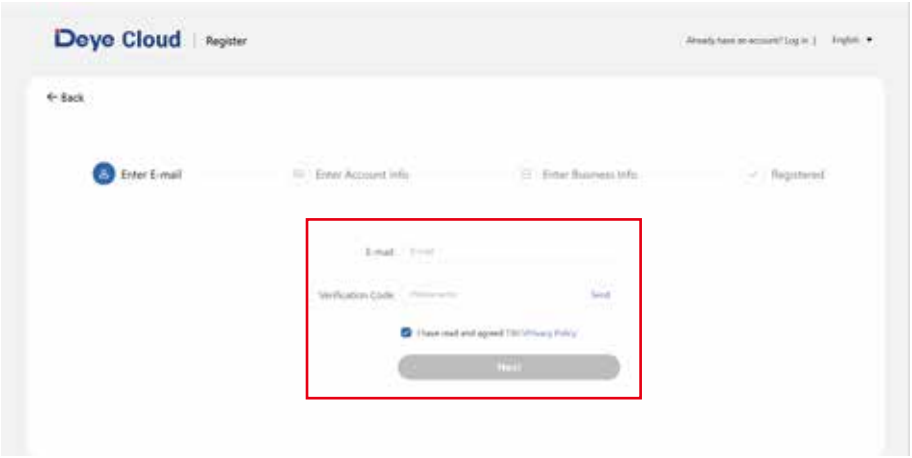


B. Business user

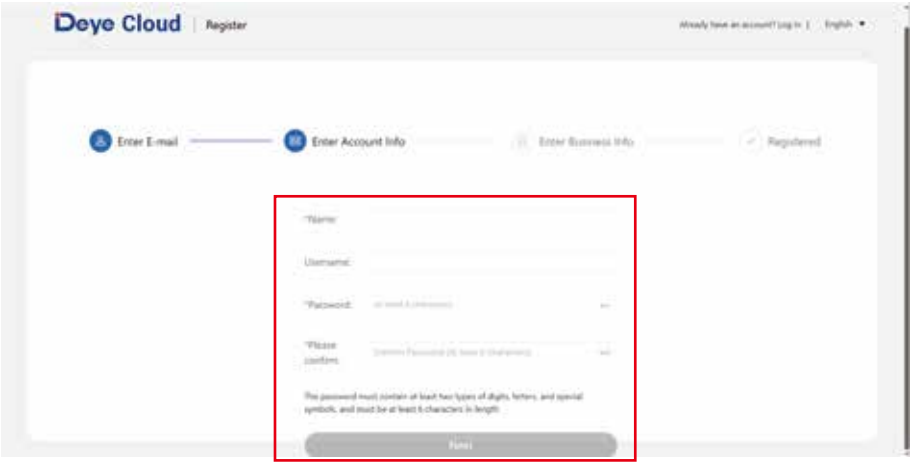
* Select the data center based on your region and confirm.



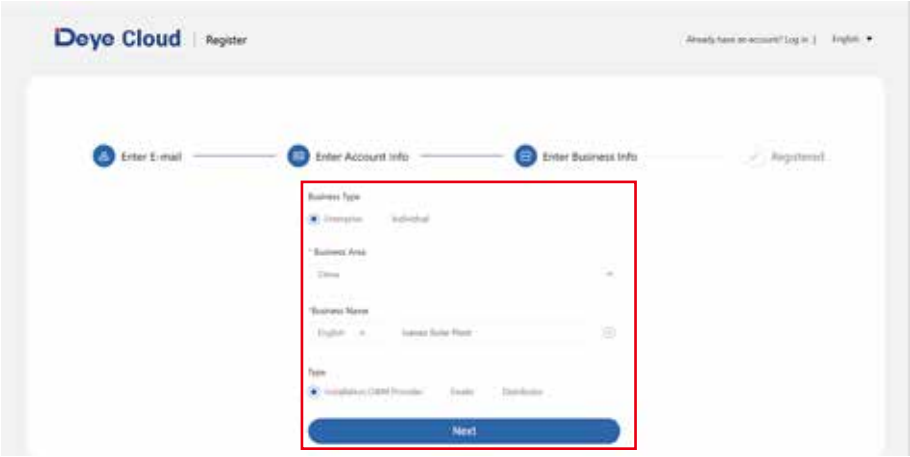
* Enter the e-mail address and verification code received, check "T&Cs Privacy Policy", and click "Next".



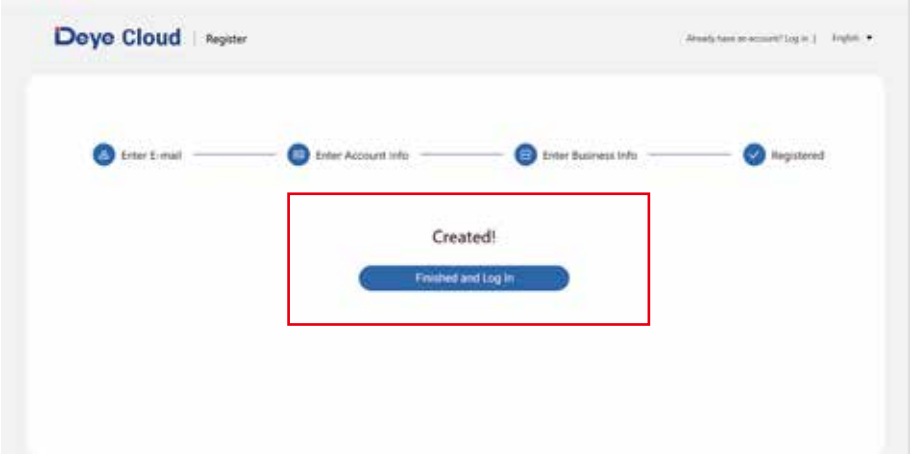
* Enter your name and password. Click "Next".



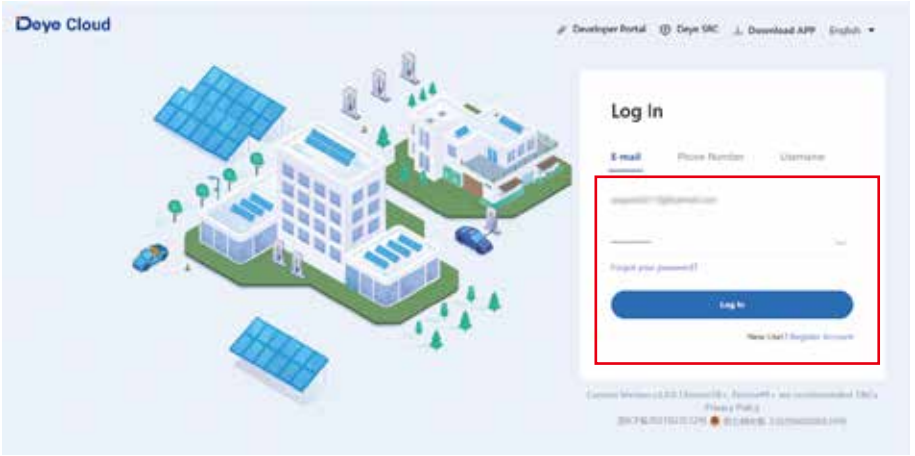
* Select your business type and area, set your business name, choose your identity, and click "Next".



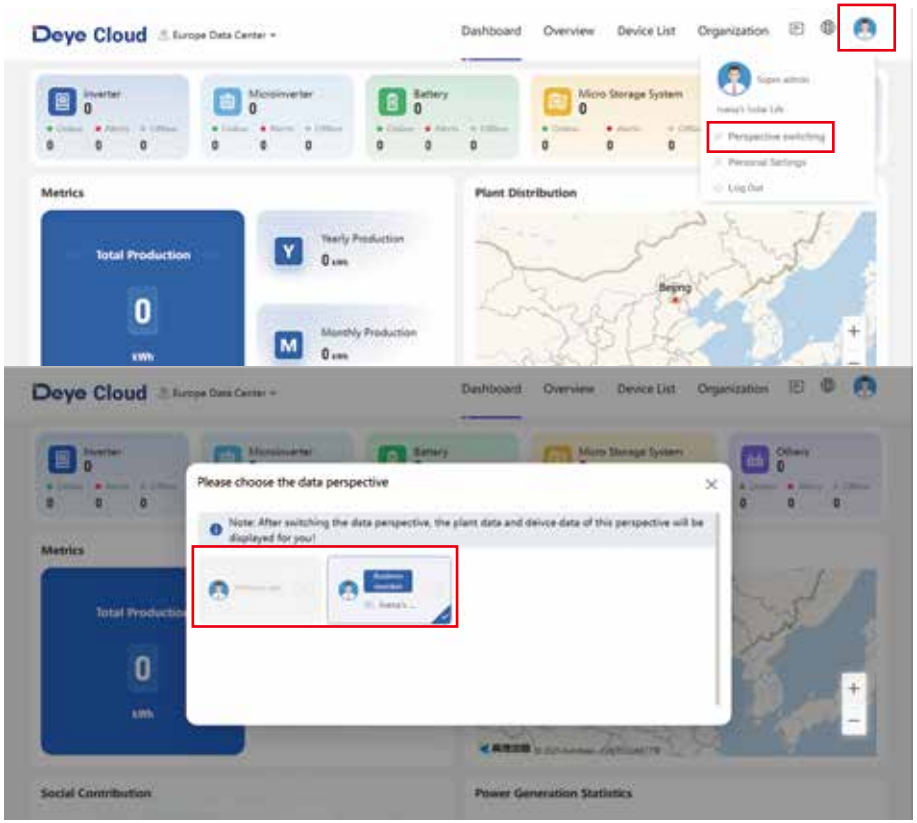
* Your account is created successfully.



* Return to the log in page and log in.

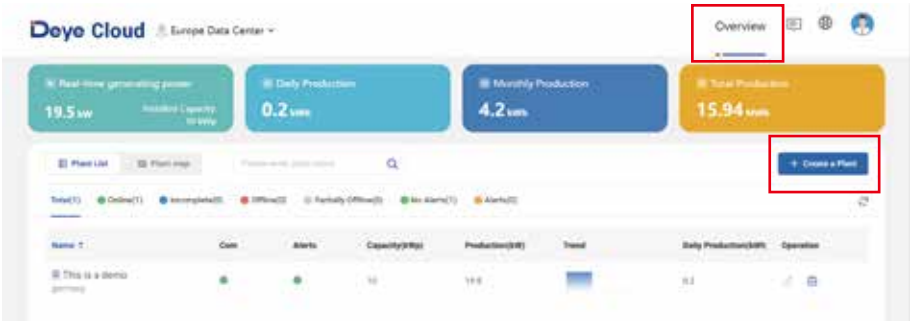


* Users can switch perspective on the top right. Note that this function is available to business account and residential user must register a business to enable this function.

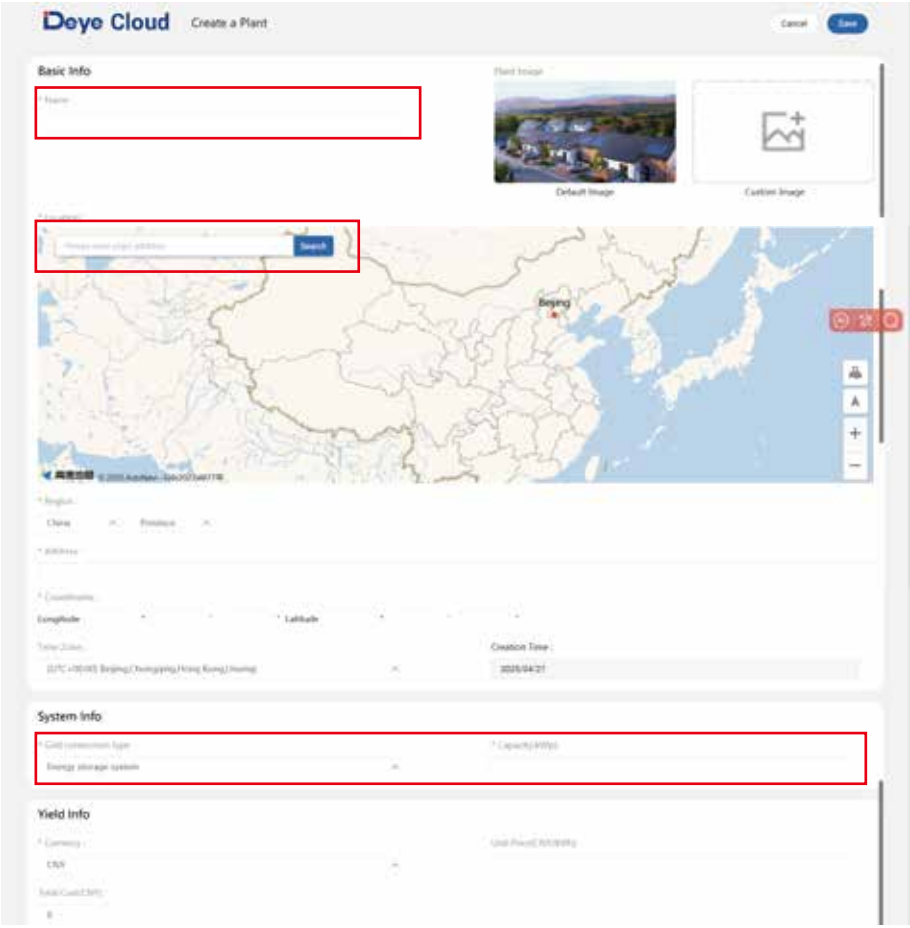


Step 2. Create the plant and add the logger

* After jumping to a new page, click "Create a Plant".

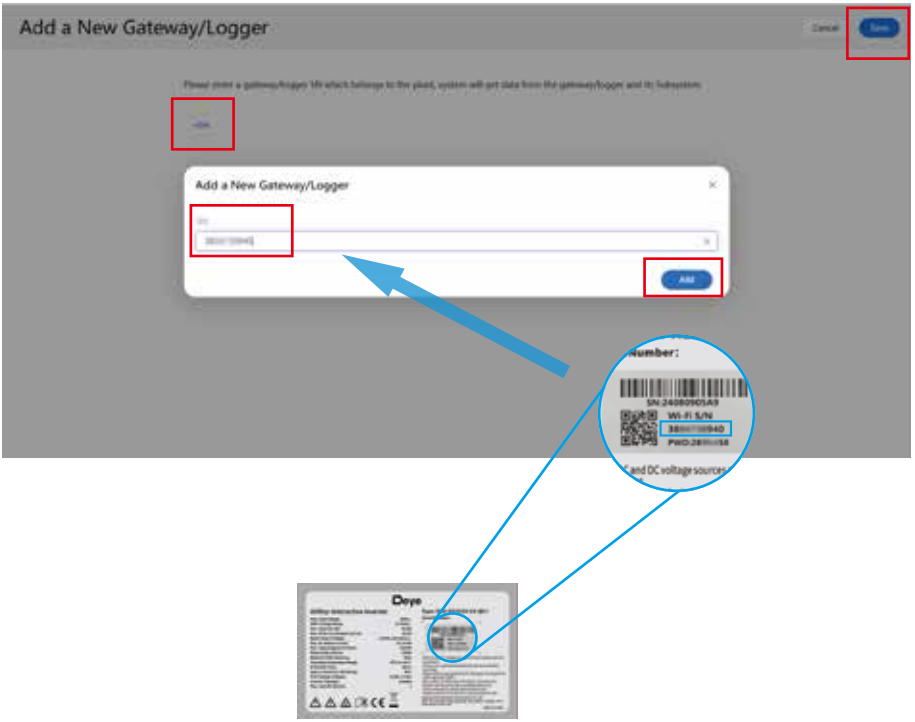


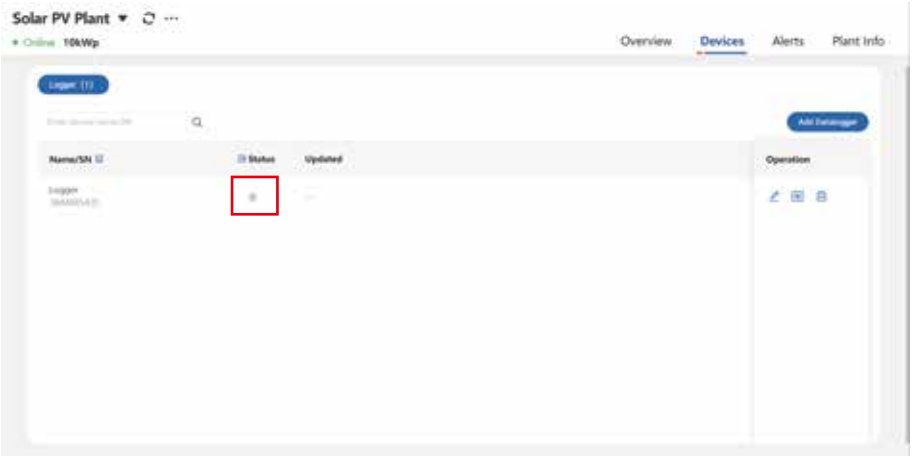
* Fill out the basic information of the plant like plant name, location, grid type, and capacity. Click "Save" at the right top of this page to finish the plant creation.



* It will automatically open a new window. Select "Devices" and click "Add Data Logger".

* Click "+SN" to enter the SN of the logger (find it on the name plate of the microinverter). Click "Add" and click "Save" at the top right of this page. The device status will be gray now.




Solar PV Plant
Online 10kWp
Overview
Devices
Alerts
Plant Info
Name/SN
Status
Updated
Operation

2. Monitoring via Mobile App

Step 1. Download the app

Scan the QR code below to download the app or search "Deye Cloud" in app store (iOS) or Google Play Store (Android). Install the app on your mobile phone.

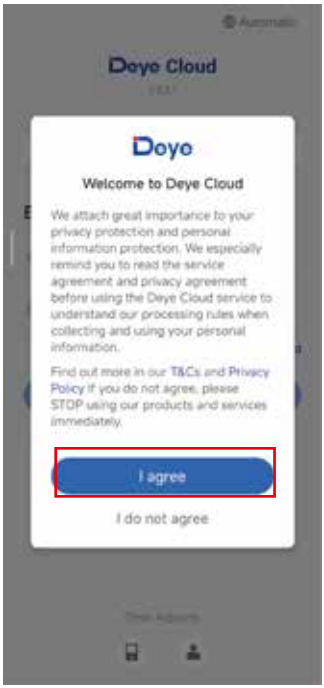
Deye Cloud

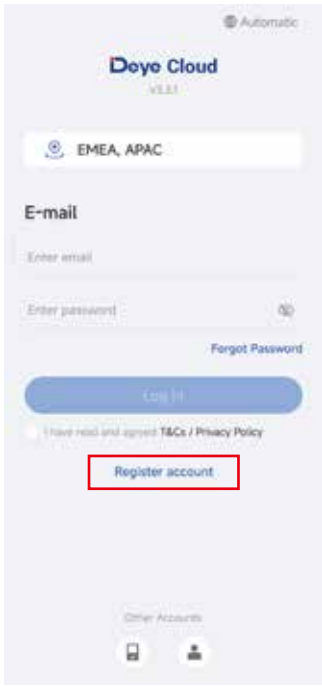
Green Industry, Bright Future

Scan to Download the App

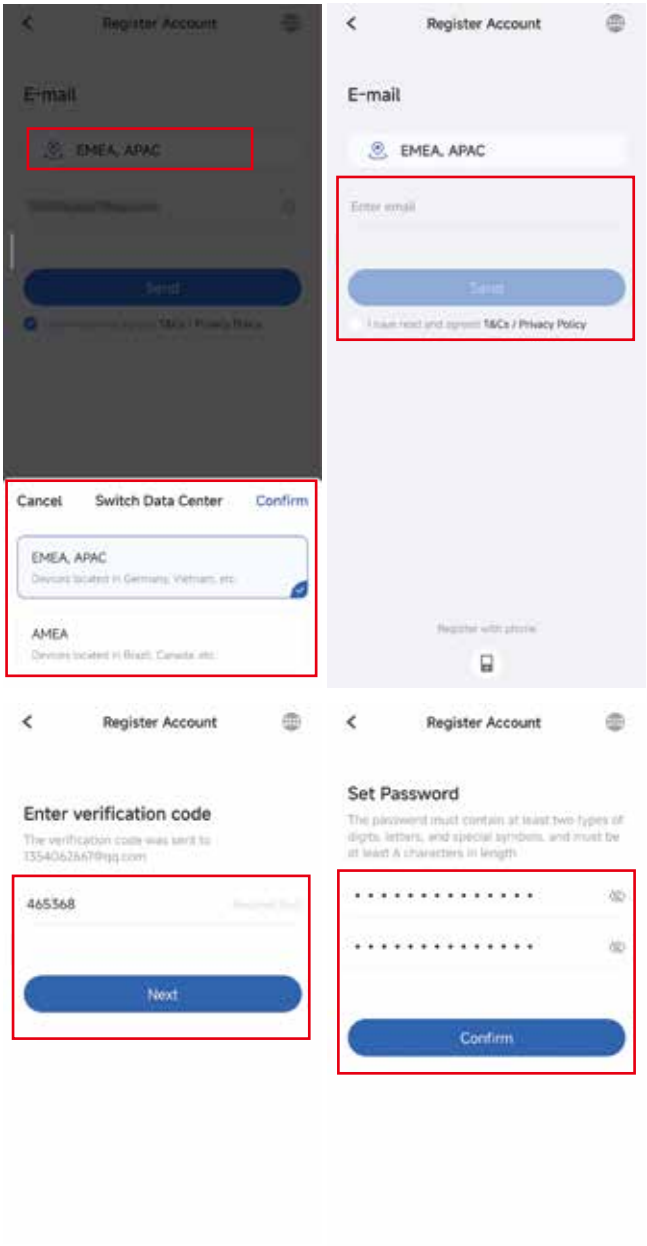
Step 2. Register an account

* Read the information on the pop up window and click "I agree" and then click "Register account".



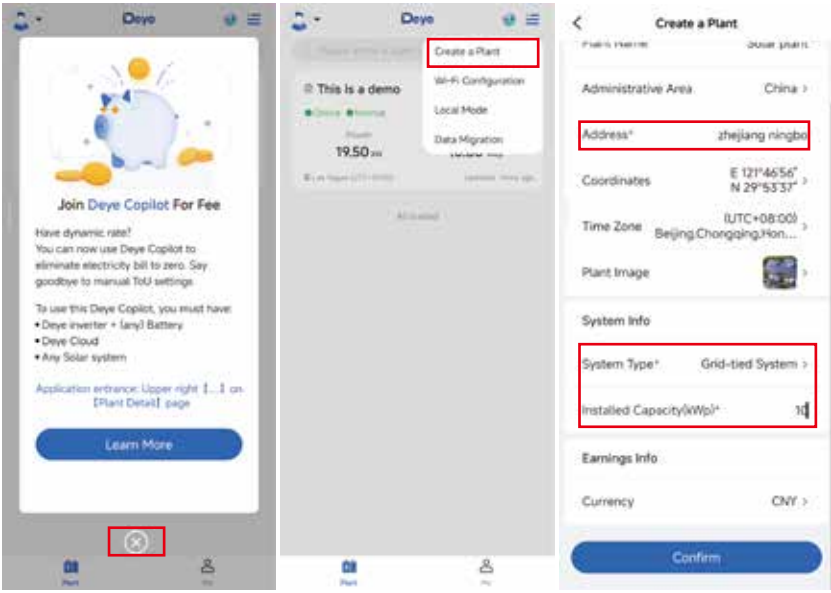


* Select data center, enter your email address, and check "Terms of Service" and "Privacy Policy". Enter the verification code, set the password and click "Confirm" to create a new account.



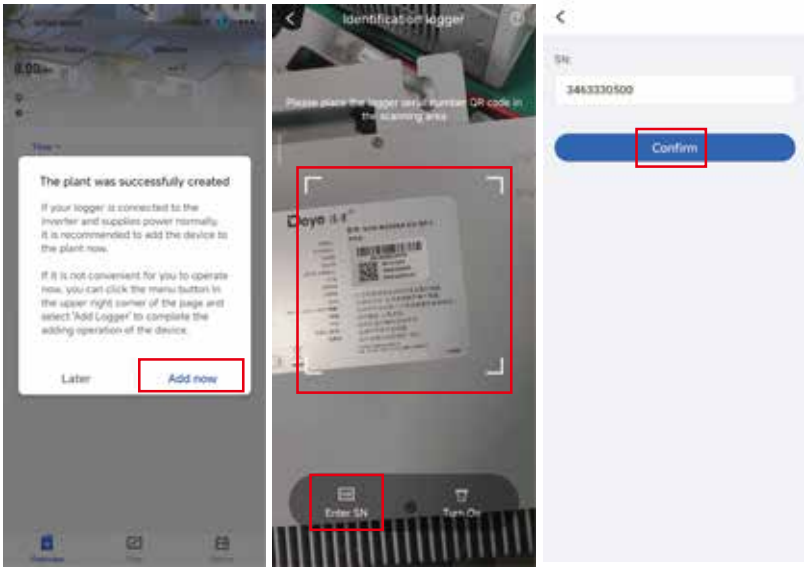
Step 3. Create the plant

Close the pop window and create a new plant at the top right of this page. Enter the information like plant name, plant address, system type, system capacity and click "Confirm".



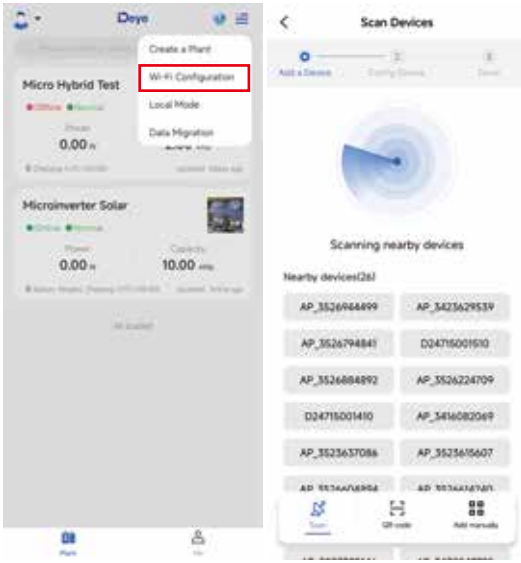
Step 4. Add the logger

* Select “Add now” on the pop up window, scan the QR code on the name plate of the microinverter, and click “Confirm” to add the logger to the plant.



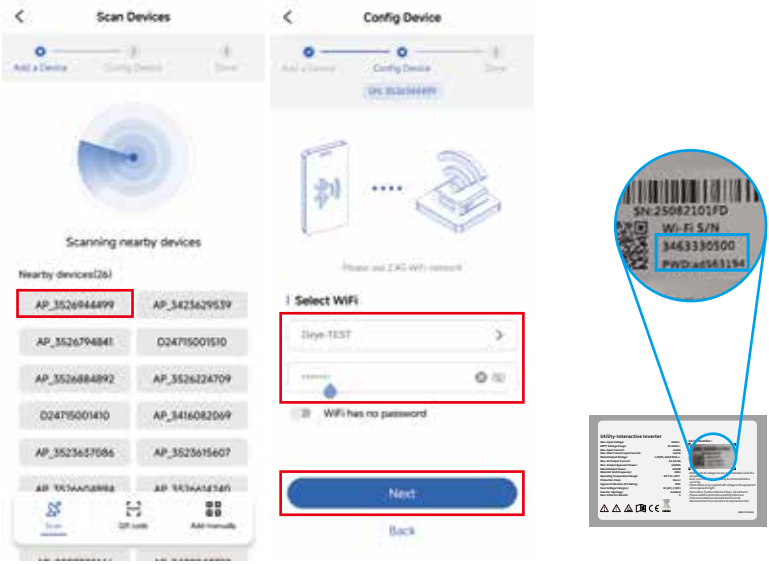
Step 5. Configure the network

* Return to the home page, and turn on Bluetooth of the mobile phone. Click the " " icon in the top right corner, select "Wi-Fi Configuration", and the app will scan for nearby devices automatically.

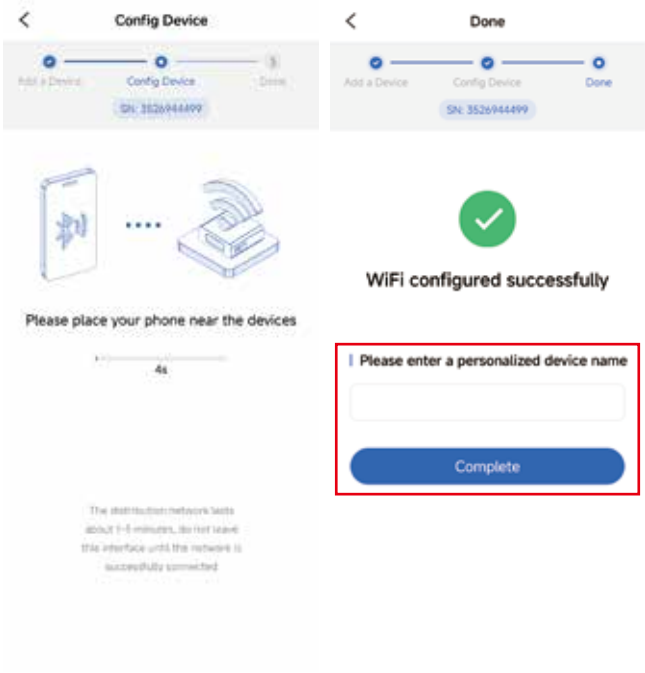


* Select the AP network of the inverter you want to connect. Choose a 2.4G Wi-Fi network, enter the password, and click "Next".

✓ Find the AP network name on the name plate of the microinverter.

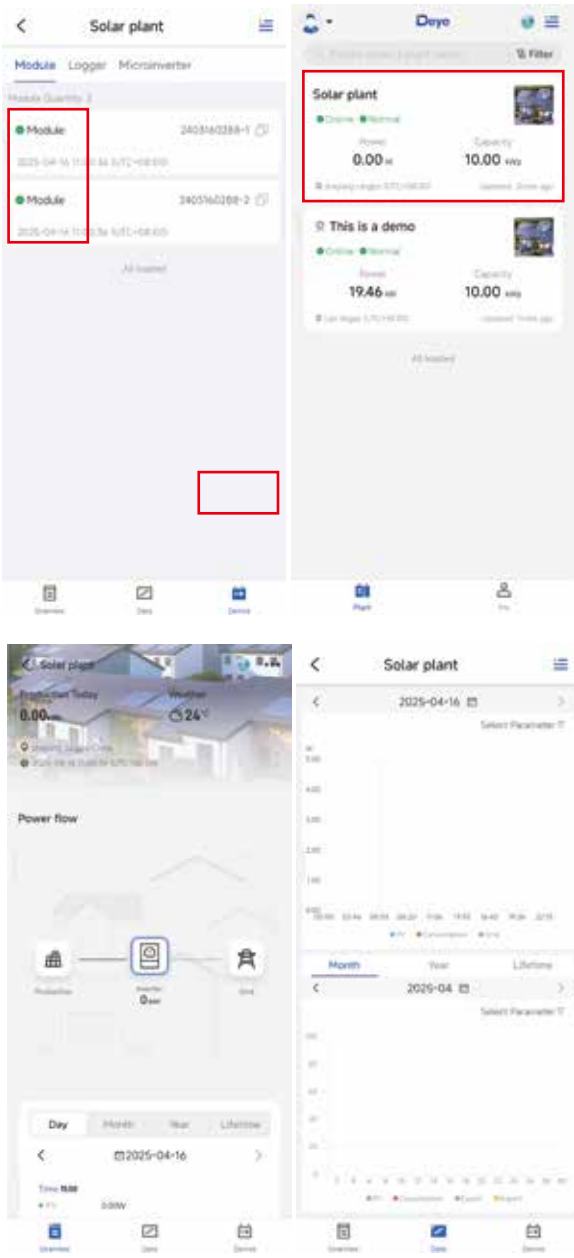


* The Wi-Fi setup will begin. Please stay on this page and keep your phone close to the device. Once the setup is complete, you can name the device. Click "Complete" to finish.



Step 6. Monitoring and management

Wait for some time until it shows the device is online and the data is collected. Check the system status and data on overview and data page.



Maintenance

Deye microinverters do not require any specific regular maintenance.

Troubleshooting

If you have any question you can't handle during using Deye products,please contact with our after services by email:service@deye.com.cn,details can refer to products' warranty.

EU Declaration of Conformity

within the scope of the EU directives
· Radio Equipment Directive 2014/53/EU (RED)
· 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/#microinverter-4.

EU Declaration of Conformity

Product: **Utility-Interactive Inverter**
Models: SUN-M130G4-EU-Q0; SUN-M160G4-EU-Q0; SUN-M180G4-EU-Q0;
SUN-M200G4-EU-Q0;SUN-M220G4-EU-Q0;
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 restriction of the use of certain hazardous substances (RoHS) Directive 2011/65/EU and the Radio Equipment Directive (RED) 2014/53/EU.

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

EN 62109-1:2010	●
EN 62109-2:2011	●
EN 300328 V 2.2.2:2019	●
EN 301489-1 V 2.2.3:2019	●
EN 301489-17 V 3.2.4:2020	●
EN 55011:2016+A1+A11+A2	●
EN 62920:2017+A11+A1	●
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 62311:2020	●
CISPR 11:2015+A1+A2	●

Nom et Titre / Name and Title: Bard Dai
Senior Standard and Certification Engineer

Au nom de / On behalf of: Ningbo Deye Inverter Technology Co., Ltd.
Date / Date (yyyy-mm-dd): 2023-11-10
A / Place: Ningbo, China

EU DoC – *v1*

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

NINGBO DEYE INVERTER TECHNOLOGY CO., LTD.
Add.: No.26 South YongJiang Road, Daqi, Beilun, NingBo, China.
Tel.: +86 (0) 574 8622 8957
Fax.: +86 (0) 574 8622 8852
E-mail: service@deye.com.cn
Web.: www.deyeinverter.com