











GUANGZHOU SANJING ELECTRIC CO., LTD

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M2-1.8K-S4 M2-2K-S4 | M2-2.2K-S4 | M2-2.25K-S4

Preface



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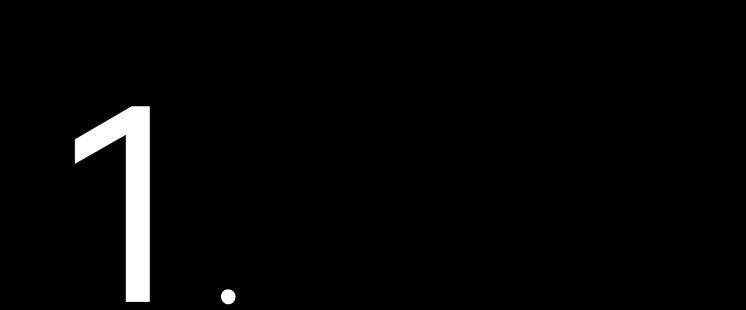
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SAFETY INSTRUCTIONS



1.1 Scope of Application

This User Manual describes instructions and detailed procedures for installing, operating, maintaining, and troubleshooting of the following SAJ products: M2-1.8K-S4; M2-2K-S4; M2-2.2K-S4; M2-2.25K-S4;

1.2 Safety Instructions

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

NOTICE indicates a situation that can result in potential damage, if not avoided.

1.3 Target Group

Only qualified electricians who have read and fully understood all safety regulations contained in this manual can install, maintain and repair the device. Operators must be aware of the high-voltage device.





·WARNING indicates a hazardous situation which, if not avoided, can result in death or serious injury or moderate injury.



CAUTION

CAUTION indicates a hazardous condition which, if not avoided, can result in minor or moderate injury.



NOTICE

1.4 Instructions Description

For safety, be sure to read all the safety instructions carefully prior to any works, and please observe the appropriate rules and regulations of the country or region where you installed all-in-one energy storage system.

· There is possibility of dying due to electrical shock and high voltage.	
\cdot Do not touch the operating component of the inverter; it might result in burning or death.	
 To prevent risk of electric shock during installation and maintenance, please make sure that all AC and DC terminal are plugged out. 	S
• Do not touch the surface of the equipment while the housing is wet, otherwise, it might cause electrical shock.	
Do not stay close to the equipment while there are severe weather conditions including storm, lighting, etc.	
· Before opening the housing, the SAJ inverter must be disconnected from the grid and PV generator; you must wai	t
for at least five minutes to let the energy storage capacitors completely discharged after disconnecting from powe source.	er
Please keep the power off prior to any operations	
Do not expose the battery to temperatures in excess of 50° C.	
Do not subject the battery to any strong force.	
Keep inflammable and explosive dangerous items or flames away from the battery.	
Do not soak the battery in water or expose it to moisture or liquids.	
Do not use the battery in areas where the ammonia content of the air exceeds 20 ppm.	

WARNING
 Only qualified personnel who have full knowledge of local safety regulations and local standards on batteries can install, maintain, retrieve, and process this product.

·SAJ Electric shall not be liable for any loss or warranty claims arising from any unauthorized change of product which may cause fatal injury to the operator, third party, or equipment performance.

 \cdot For personal and property safety, do not short-circuit the positive (+) and negative (-) electrode terminals.



 $\cdot \operatorname{Risk}$ of damage due to improper modification

 $\cdot \textsc{Use}$ professional tools when operating the products.

 \cdot The inverter will become hot during operation. Please do not touch the heat sink or peripheral surface during or shortly after the operation.

· During the installation of the battery, the circuit breaker must be disconnected from the battery pack wiring.

1.5 Explanations of Symbols

Dangerous electrical vol This device is directly con carried out by qualified p
Danger to life due to hig There might be residual c minutes before you remo
Danger of hot surface The components inside th plate housing during oper
An error has occurred Please go to Chapter "Tr
This device shall NOT be
CE Mark Equipment with the CE m Magnetic Compatibility.
This device complies

Description

oltage

onnected to the public grid, thus all work to the battery shall only be personnel.

igh electrical voltage!

currents in the inverter because of the large capacitors. Wait for 5 nove the front lid.

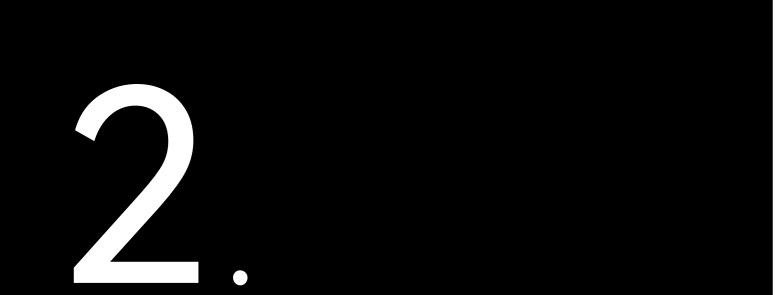
the battery will release a lot of heat during operation. Do not touch metal eration.

roubleshooting" to remedy the error.

e disposed of in residential waste.

mark fulfills the requirements of the Low Voltage Directive and Electro-

with the RoHS Directive.



PRODUCT INFORMATION



M2 Series

The M2-(1.8K-2.25K)-S4 micro-inverter is used in grid-tied applications, comprised of two key elements:

- a. M2-(1.8K-2.25K)-S4 Micro-inverter.
- b. Monitoring and analysis system.

The micro-inverter converts the DC electricity generated by solar panels into AC electricity which is in accordance with the requirements of the public grid and sends the AC into the grid, reducing the load pressure of the grid.

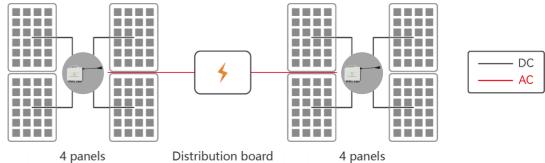


Figure 2.1 System overview

2.1 Specification for Product Model

 $\underline{M2}_{\underline{0}}$ - $\underline{XK}_{\underline{0}}$ - $\underline{S4}_{\underline{3}}$

① M2 represents for product name. ② XK represents rated power XkW of inverter, for example, 2.25K means 2.25kW. ③ S means single phase; 4 represents the inverter has the function of 4 MPP trackers.



2.2 Overview of Product

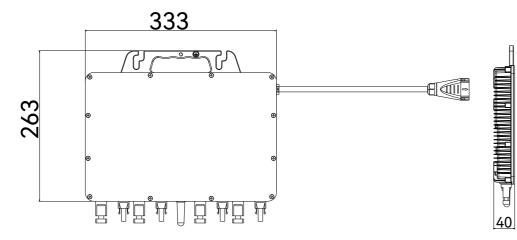
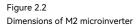


Table 2.1 M2 microinverter Interface description

Code	Name
A	Mounting Hole
В	DC Cables
С	Antenna
D	AC Cables
E	LED Indicators

2.4 Datasheet

Model	M2-1.8K-S4 M2-2K-S4 M2-2.2K-S4 M2-2.25								
Input Data (DC)									
Recommended PV Module Power (STC) Range [Wp]	ower (STC) Range [Wp] 400~700+								
Peak Power Tracking Voltage [V]		35	~50						
Operating Voltage Range [V]		16	~55						
Maximum Input Voltage [V]		ć	50						
Maximum Input Current [A]		20	x 4						
Back-Feed Current [A]	0								
Overvoltage Category									
Output Data (AC)									
Maximum Output Power [VA]	1800	2000	2200	2250					
Nominal Output Current [A]	7.82	9.78							
Rated AC Voltage/Range [V]	L+N+PE, 220, 230, 240/180 ~ 280								
Rated Output Frequency/Range [Hz]	50, 60/45 ~ 55, 55 ~ 65								
Power Factor [cos φ]		> 0.99 default 0.8 l	eading ~ 0.8 lagging						



2.3 Terminals Description

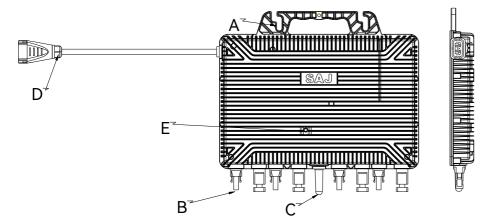
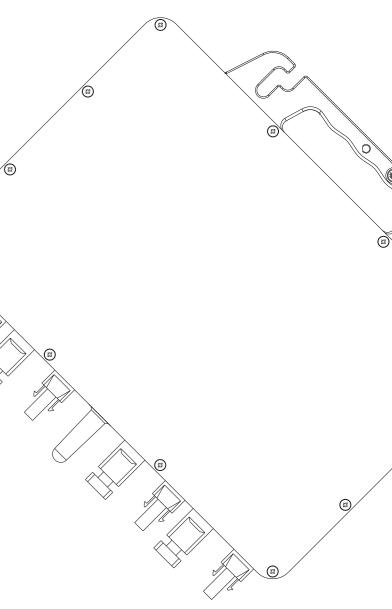
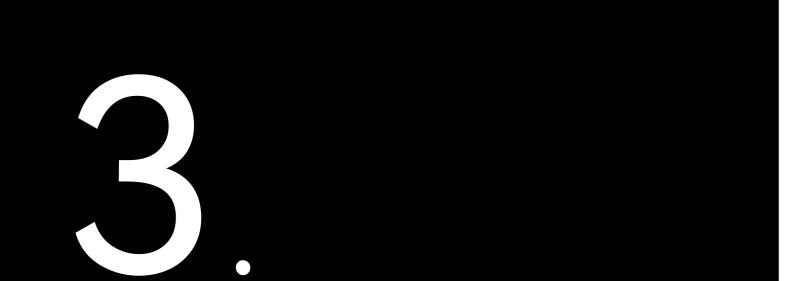


Figure 2.3 M2 microinverter interface (rear view)

Overvoltage Category									
Total Harmonic Distortion [THDi]		<35	%						
Maximum Units per 10AWG Branch	4	3	3	3					
Efficiency									
Peak Efficiency		97.00%							
CEC Efficiency		96.0	0%						
Mechanical Data									
Operating Temperature Range		-40°C to +60°C (45°C to	o 60°C with derating))					
Communication		Wi-Fi / Bluetooth							
Cooling Method	Natural Convection								
Ambient Humidity	0-100% non-condensing								
Altitude		2000m							
Noise [dBA]	< 20								
Ingress Protection		IP67							
Dimensions (W x H x D) [mm]		333*225*40							
Weight [kg]		5.8kg							
Warranty		12 Years							
	EN62109-1/2, EN61000-6-1/2/3/4, EN50438, EN50549, C10/11, IEC62116, IEC61727,								
Applicable Standard	RD1699,CEI 0-16, CEI O-021, AS4777.2, NBR16149, NBR 16150 VDE-AR-N 4105, VDE								
	0126-1-1, RoHS								





INSTALLATION INSTRUCTION



3.1 Safety Instructions

Dangerous to life due to potential fire or electricity shock. Do not install the inverter near any inflammable or explosive items. This inverter will be directly connected with HIGH VOLTAGE power generation device; the installation must be performed by qualified personnel only in compliance with national and local standards and regulations.

This equipment meets the pollution degree II. Inappropriate installation environment may jeopardize the life span of the inverter. Installation directly exposed under intensive sunlight is not recommended. The installation site must be well ventilated.

3.2 Pre-installation Check

3.2.1 Check the package

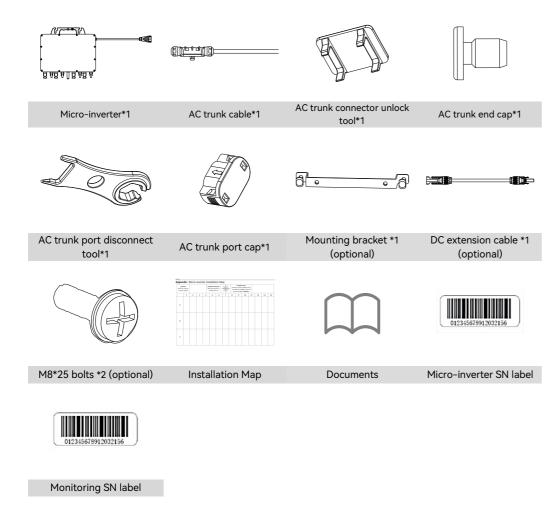
Although SAJ's inverters have thoroughly tested and checked before delivery, it is uncertain that the inverters may suffer damages during transportation. Please check the package for any obvious signs of damage, and if such evidence is present, do not open the package and contact your dealer as soon as possible

4 DANGER



3.2.2 Scope of Delivery

Please contact after sales if there is missing or damaged components



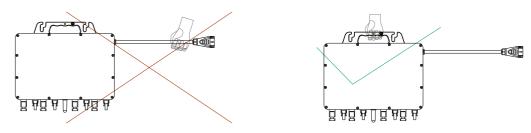
The documents include the user manual, quick installation guide and packaging list.

3.3 Determining the installation method and position

(1) The equipment employs natural convection cooling, and it can be installed indoor or outdoor.

toward the solar panels.

(3) Please hold the handle of the microinverter with your hands. Do not lift the AC cable with bare hands.



(4) when mounting the inverter, please consider the solidity of the wall or the rail, including accessories. Make sure the wall or the rail has enough strength to hold the screws and bear the weight of products. Please ensure the mounting bracket is mounted tightly.

Installation Environment Requirements

Figure 3.1

Holding method

- Install the device away from heat source.
- Do not install the device at a place where the temperature changes extremely.
- Keep the device away from children.
- When installing the device at the garage, please keep it away from driveway.

Note: When installing outdoors, the height of the device from the ground should be considered to prevent the device from soaking in water. The specific height is determined by the site environment.

(2) Mount the equipment horizontally on the rail or vertically on the mounting bracket and face the cover

• The installation environment must be free of inflammable or explosive materials.

 Do not install the device at daily working or living arears, including but not limited to the following areas: bedroom, lounge, living room, study, toilet, bathroom, theater, and attic.

• Keep the device from water sources such as taps, sewer pipes and sprinklers to prevent water seepage.

• The product is to be installed in a high traffic area where the fault is likely to be seen.

3.4 Mounting Procedure

3.4.1 Installation Tools

Installation tools include but are not limited to the following recommended ones. Please use other auxiliary tools on site if necessary.

1 D Multimeter Measurement Utility knife Marker Measuring tape Insulated shoes range: ≥ 1100Vdc ÛĽ. a , S Phillips screwdriver Dust mask Earplugs Goggles Protective gloves ′**≘**Ω⊂⊳∽ Hammer drill Drill Heat shrink tubing Heat gun Wrench Rubber mallet bit: Φ10

3.4.2 Mounting Procedures

Step 1: Plan and install the microinverter

Mark the position of each microinverter on the rail. Secure the screws on the marks to the rail. Face the cover toward the photovoltaic module. Hang the microinverter on the screws and tighten the screws.

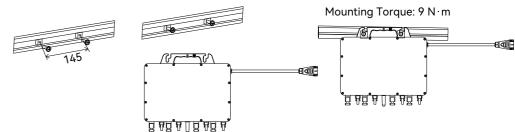
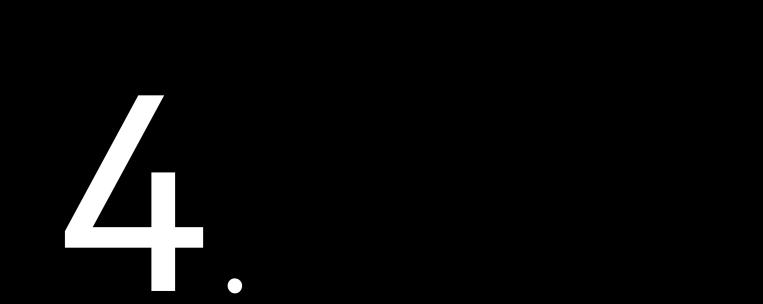


Figure 3.2 Micro-inverter installation

microinverter handle.

Note: If external grounding is required, use a grounding screw (M6) to install it to the grounding hole on the



ELECTRICAL CONNECTION

4.1 Safety Instruction

Electrical connection must only be carried out by professional technicians. Before connection, necessary protective equipment must be employed by technicians including insulating gloves, insulating shoes and safety helmet.

Dangerous to life due to potential fire or electricity shock.

The wiring and connection of the inverter should be carried out by qualified technicians in accordance with local and national electrical standards and regulations.

When the photovoltaic array is exposed to light, it supplies a DC voltage to the inverter. Ensure that all AC cables are correctly wired and that none of the wires are pinched or damaged.

area of conductors, fuses and ground protection. Use AWG 10 (4 mm²) cable for AC trunk cable.

4.2 Specifications for Electrical Interface

product package.



	\wedge
1	4
1	*

DANGER





Electrical connection should in conformity with proper stipulations, such as stipulations for cross-sectional

Note: Except for optional parts and parts provided by installers, all other accessories are included in the

Part Name		No.	Part Name
AC trunk cable		Е	Mounting bracket (optional)
AC trunk connector unlock tool		F	AC trunk port cap
AC trunk end cap		G	AC trunk port disconnect tool
M8*25 bolts (optional)		Ι	DC extension cable (optional)
,	AC trunk cable AC trunk connector unlock tool AC trunk end cap	AC trunk cable AC trunk connector unlock tool AC trunk end cap	AC trunk cable E AC trunk connector unlock tool F AC trunk end cap G

Table 4.1 Installation parts

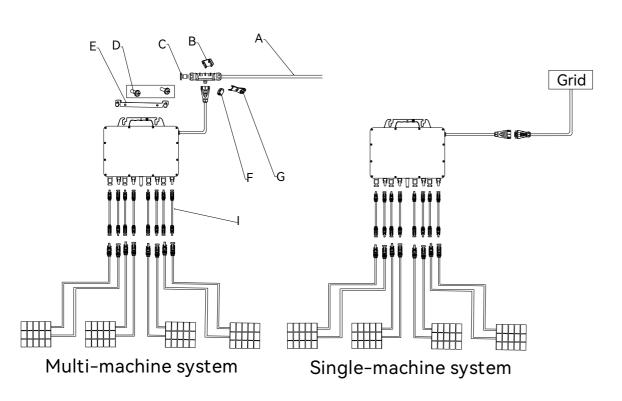


Figure 4.2

Connector wiring

4.3 AC Side Cable Connection

(1) If the micro-inverter is connected to port N.

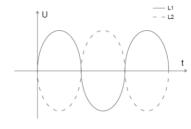


Figure 4.3 Split-phase power grid

(2) If the micro-inverter is connected to 230/400V three-phase WYE power grid, connect the live line to port L and connect the neutral line to port N, as the connection of single-phase power grid.

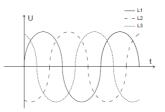
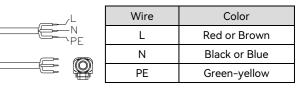


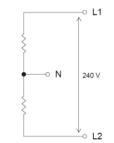
Figure 4.4 Three-phase WYE power grid

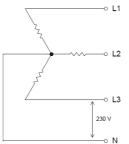
Figure 4.1 Connection diagram

Step1: Take out the AC connector from the package.

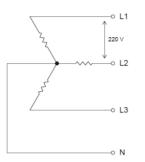


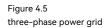
(1) If the micro-inverter is connected to 120/240V split-phase power grid, connect two live lines to port L and





(3) If the micro-inverter is connected to 127/220 V three-phase power grid, connect one live line to port L and connect another live line to port N.





Step 2: For single-machine system, connect the branch male connector.

Before wiring, use a Phillips screwdriver to remove the screws to the uppermost baffle. Insert the other main cable into the body shell and crimp the inner wires into the slot according to the L, PE, and N marks. Tighten the screws. Press the terminals into the shell and put the nut back into the port and tighten.

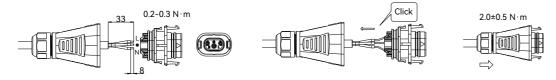


Figure 4.6 Connector wiring

For multi-machine system, prepare and install AC cables.

Use AC cables to connect the microinverters to the distribution box.

(1) Use the AC trunk connector unlock tool to align the slot on the back and press the nuts on both sides firmly.

Figure 4.7 Unlock tool usage

Figure 4.8

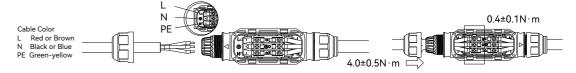
Figure 4.9 Closing the lid

Figure 4.10

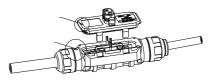
Inner wires crimping



PE, and N marks.



Close the lid following guide arrows until a click sound is heard.



(3) Prepare some AC trunk cables and string them in series for backup.



(4) Insert the AC trunk end cap to AC trunk cable, screw it and tighten the nut.

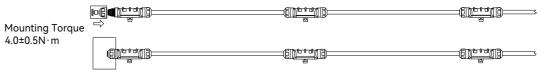
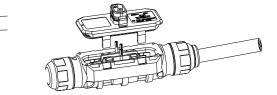
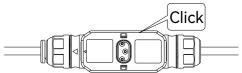


Figure 4.11 AC trunk cables tightening

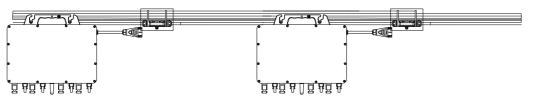
AC trunk cables in series



(2) Insert the other main cable into the body shell and crimp the inner wires into the slot according to the L,



(5) Lay the AC trunk cables on the guide rail and fix it with ties.





Note: If you need to remove the output-side AC connector of the microinverter from AC trunk cable, please insert the branch connector unlock tool into the AC branch cable connector.

Figure 4.12 Fixing the cables with ties

Step 3: Complete AC Connection

(1) Insert the branch cable connector on output side into the AC trunk cable or branch male connector until a "click" sound is heard.

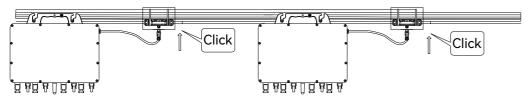


Figure 4.13 Multi-machine system

Grid

Figure 4.14 Single-machine system

(2) Connect the end of the AC cable to the distribution box and then connect it to the local power grid.

(3) If there is an empty port on the bus box, please insert the main cable protective cover into the empty port to ensure that the connector is dust-proof and waterproof.



Figure 4.16 Single-machine system

Figure 4.15

Single-machine system

Step 4: Make an Installation Map

Peel off the SN label on each microinverter and attach the SN label to the installation map as followed

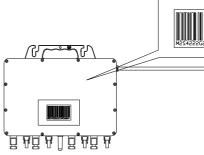
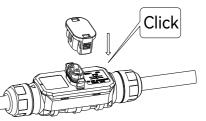
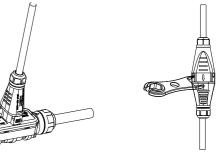


Figure 4.17 SN label and installation map







Customer: (Name of customer or power station)				(D	italiation Dir irection that modules face	the PV	濑	Use d	Installati re are other Sflorent insta e them diffe	installation	and			
	1	2	3	4	5	6	7	8	9	10	11	12	13	1
A														
в														
с														

! NOTICE

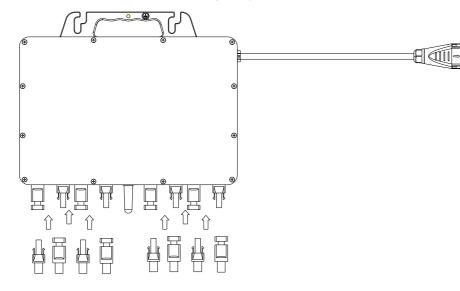
 \cdot If there are more than one installation site, please make the installation map separately and give a clear description about the installation site.

 The row of the table corresponds the shorter side of PV module and the column of the table corresponds the longer side of PV module. The direction on the upper left corner means the actual installation orientation.
 The micro-inverter SN label start with "T". The monitor SN label start with "R".

4.4 DC Side Cable Connection

Install the PV modules and connect the DC cable to the micro-inverter.

ATTENTION: The DC cable length from the PV array to the inverter must be smaller than 3 meters to meet relevant regulatory requirements. Ensure that the DC cables are correctly connected. For details, consult your local electric power operator and refer to local regulatory requirements.



4.5 PV Module Connection

Connecting the PV Modules

Install PV modules above microinverter microinverters.

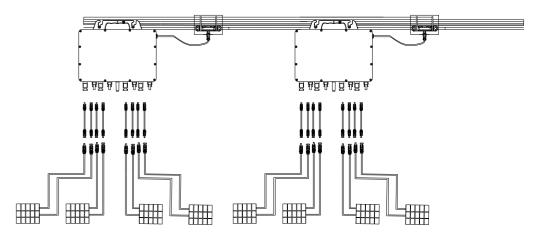


Figure 4.19 Multi-machine PV connection

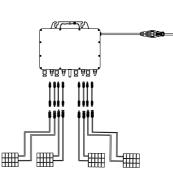
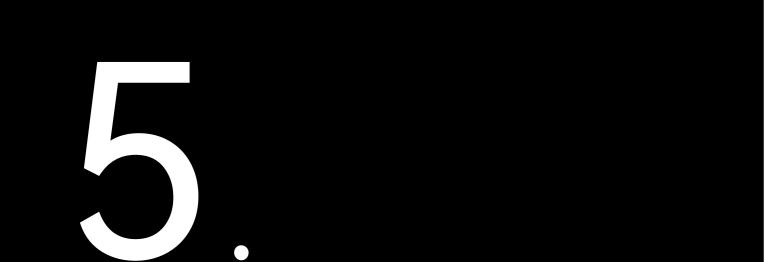


Figure 4.20 Single-machine PV connection

Figure 4.18 DC cable connection

Install PV modules above microinverters. Connect DC output cable of PV modules to the DC input side of

Grid



COMMISSIONING

5.1 Start Up and Shut Down the Micro-Inverter

5.1.1 Start Up

Step 1: While installation is all finished, turn on the main utility-grid AC circuit breaker. Step 2: Wait for two minutes and your system will start running.

5.1.2 Shut Down

Step1: Disconnect the micro-inverter and PV modules. Step 2: The LED indicator will light off and the system will shut down.

5.1.3 Introduction of the LED Indicator

The LED will flash green and red at start up. The definition of LED is shown as below.

Status		Indicates	
Green Solid		Working normally	
Green	Breathing	athing Standby/Waiting	
Red	Flashing 1	Unable to connect	
Red	Solid	Fault	
Red	Breathing	Upgrading	
Red & Green Off		Not working	

Note: 1. The breathing cycle is 6s;

2. Flashing 1 is one cycle lighting up for 1s and off for 1s.

3. Flashing 2 is one cycle lighting up for 1s and off for 3s

5.2 APP Connection

5.2.1 Downloading the App

1. The Elekeeper (used to be called eSAJ Home) can be sued for both nearby and remote monitoring. It supports Bluetooth, 4G and Wi-Fi module to communicate with the device.

2. On your mobile phone, search for "Elekeeper" in the App store and download the App.

5.2.2 Logging in to the App

Procedure

1. Open the App and click on the three-dot icon **example** on the top right corner.

2. Set the Language to English and Network Node to Overseas Node.



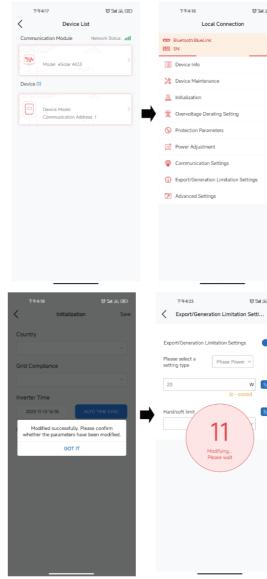
3. If you do not have an account, register first.

- a. Click Register. Choose whether you are an owner or an installer or distributor.
- b. Follow the instructions on the screen to complete the registration.

4. Use the account and password to log in to the App.

5. Go to the **Tool** interface and select **Remote Configuration**. Click on **Bluetooth** and enable the Bluetooth function on your mobile phone. Then, click on **Next**.

5.2.3 Completing the Initialization Settings



Follow the instructions on the screen.

R. 337	下午4:17 😽 🖽 🗩 💷	下午4:18 🗑 知候 🐨
Ú	Initialization Save	Initialization Save
	Country	Country
>		0110 F
>	Grid Compliance	Grid Compliance
>		· · · · · · · · · · · · · · · · · · ·
	Inverter Time	Inverter Time
	2023-11-13 16:13 AUTO TIME SYNC	2023-11-13
	Inverter SN	Inverter \$ 10
		Modifying Please wait
	Cancel OK	
	Australia	
	Regium	
		下午4:29 27 31 (家 🗵
, uno	下午4:22 10 Saf , 回) く Export/Generation Limitation Setti	C Device Info
	Export/Generation Limitation Setti	
	Export/Generation Limitation Settings	CD Bluetooth:BlueLink:
		Basic Info Running Info Power Event Info
	Please select a setting type Phase Power	DC Input AC Output
ave	0 W Save	
	[0 - 55000]	
ave	Hard/soft limit Save	PV Info String Current PV1 597.6V N/A N/A-N/A-N/A
		PV2 N/A N/A N/A-N/A-N/A
	Modified successfully. Please confirm whether the parameters have been modified.	PV3 N/A N/A N/A-N/A-N/A PV4 N/A N/A N/A-N/A-N/A
	GOT IT	Grid Info
		ACI N/A N/A N/A
		AC2 N/A N/A N/A AC3 N/A N/A N/A
		0 Current Power (W) Today's Energy (kWh) On Total Energy Generated (kWh)
		Update on: 2023-11-13 16:29:41

5.2.4 Bluetooth Connection

Step 1: Log in, and go to "Service" interface, and select "Remote Configuration".

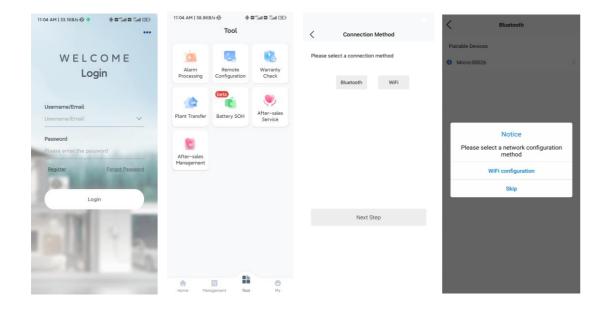
Step 2: Click on "Bluetooth", and then click on "Next"

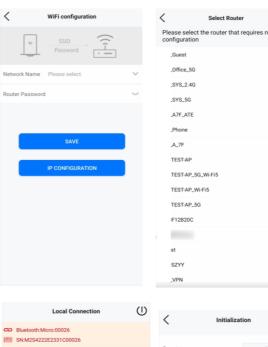
Step 3: Select your device, and click "WiFi Configuration"

Step 4: Select your WiFi and enter the WiFi passwords, then choose your correct router

Step 5: Click the right arrow of your device, and click "Initialization" to configure the inverter

Step 6: Enter the device local connection interface and enter the device basic information for operation data.





<

Local Connection	Ú	1	itialization
Bluetooth:Micro:00026 SN:M2S4222E2331C00026			
Device Info	>	Country	
basic configuration	>	Grid Compliance	NBR
Initialization	>		
Protection Parameters	>		
rated parameters	>		
Feature Parameters	>		
reactive power regulation	>		
Over-Frequency Derating	>		
fault reconnection	>		
high and low voltage ride-through	>		

	WiFi configuration	<	Device Li	st
network	SSID .	((-	Communication Module	Network Status
• 😨	Password *	=	M5310G233900054 Model WiFi-IN-A2	11
• 守	Network iPhone	~	Model WIPHIN-A2	
4 ?	Router Password	-	Device (1)	
• 🗢			M2S4222E2331C00 Device Model 2M2-2	-K4S
• 😨	SAVE		Communication Addr	ess 1
• 🔶	IP CONFIGURATION			
• 🔶	IP CONFIGURATION			
• 🐨				
• 🔶				
• 🙃				
• 🔅				
• 🗢				

	Save
Brazil	~
6149_180S	~

5.2.5 Plant Creation

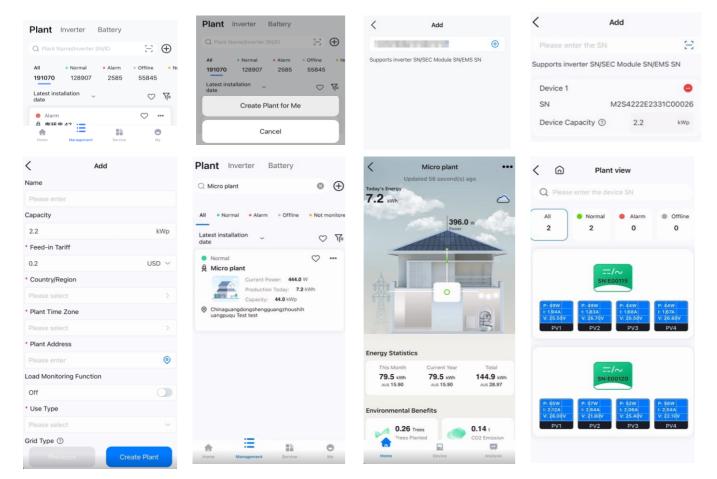
Step 1: Enter the Management page, click the + button in the upper right corner, then Create Plant for Me

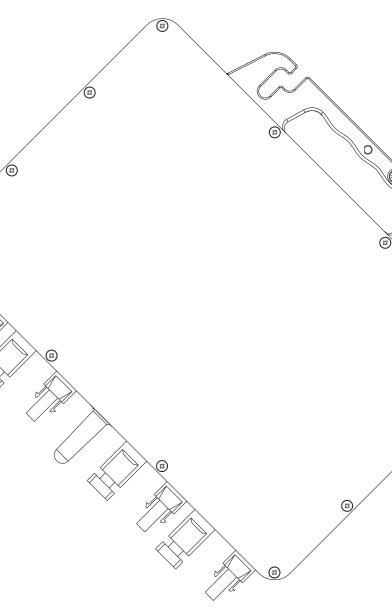
Step 2: Fill in the inverter SN, click the + button to read the device information, then click Next.

Step 3: Fill in the plant basic information, and then enter the Plant list page.

Step 4: Click on the plant information and enter the plant details page

Step 5: Enter the Micro Plant page, then click on the picture and click on the power view for details







FAULT CODE & TROUBLESHOOTING



Troubleshooting

Code	Fault Information	
		Disconnect th
1	Master Bus Voltage High	disappears.
I	Master Bus voltage High	Restart the in
		If this fault ap
2	Master Pus Voltage Low	Restart the in
Z	Master Bus Voltage Low	If this fault ap
		Please check
		connected bo
2	Master Jalandina Franz	connected fir
3	Master Islanding Error	After the abo
		insecure con
		If this fault ap
,		Disconnect th
4	Master Adc Sample Error	If this fault a
-		Please check
5	Frequency Config Error	Disconnectin
		If this fault a
,		Restart the ir
6	Master EEPROM Error	If this fault a
		Please check
		covered by o
-	Master Temperature High Error	Please check
7		sunlight.
		Please check
		If this fault a
8		Please check
	Master Temperature Low Error	location is to
		If this fault ap
0	100 5	Disconnect t
9	ISO Error	output termi

Troubleshooting

he AC switch for 5-10 minutes, and check whether the fault

nverter.

appears continuously, please contact the SAJ service.

nverter.

ppears continuously, please contact the SAJ service.

whether the power grid is powered off, whether the grid-

box switch is tripped, and whether the AC cable of the inverter is irmly.

ove inspections and there is no power failure or disconnection, or

nection, please close the AC switch and re-connect to the grid.

appears continuously, please contact the SAJ service.

the AC and DC switch for 5 minutes, and then restart the inverter.

ppears continuously, please contact the SAJ service.

whether the safety regulations are selected correctly.

ng the AC and DC switch for 5 minutes, and then restart the inverter.

ppears continuously, please contact the SAJ service.

nverter.

appears continuously, please contact the SAJ service.

whether the heat dissipation shell of the inverter is wrapped or other items.

whether the inverter is installed in a place exposed to direct

whether the installation environment is well-ventilated.

ppears continuously, please contact the SAJ service.

whether the ambient temperature at the inverter installation to low.

ppears continuously, please contact the SAJ service.

the AC switch, and please check whether the ground wire of the AC inal is firm, and whether the AC wiring is correct.

Code	Fault Information	Troubleshooting
		Please check whether the AC and DC cables are damaged, whether they are
		soaked in water, and whether the battery board is soaked in water.
		After the above checks are confirmed, please close the AC switch and restart
		the inverter.
		If this fault appears continuously, please contact the SAJ service.
10		Disconnect the AC switch for 5 minutes and then restart the inverter.
10	Output Current Dci High	If this fault appears continuously, please contact the SAJ service.
12	Master HW Inv Current High	Disconnect the AC switch and check whether the AC cable is firmly connected;
	· · · · · · · · · · · · · · · · · · ·	After the above checks are confirmed, please close the AC switch and restart
13	Master SW Inv Current High	the inverter.
		If this fault appears continuously, please contact the SAJ service.
14	Grid Voltage 10Min High	Please check whether the grid voltage is too high, whether the AC output cable
		of the inverter is connected firmly and whether the grid-connected cable is too
	Grid Voltage High	thin.
15		Please check whether the grid-connected safety regulations of the inverter are
		selected correctly.
		If this fault appears continuously, please contact the SAJ service.
	Grid Voltage Low	Please check whether the grid voltage is too low.
		Please check whether the AC output cable of the inverter is firmly connected.
16		Please check whether the grid-connected safety regulations of the inverter are
		selected correctly.
		If this fault appears continuously, please contact the SAJ service.
		Please check whether the grid-connected safety regulations of the inverter are
	Master Grid Frequency High	selected correctly.
17		After disconnecting the AC switch for 5 minutes, close the AC switch and restart
		the inverter.
		If this fault appears continuously, please contact the SAJ service.
		Please check whether the grid-connected safety regulations of the inverter are
		selected correctly.
18	Master Grid Frequency Low	After disconnecting the AC switch for 5 minutes, close the AC switch and restart
		the inverter.
		If this fault appears continuously, please contact the SAJ service.

Code		
19	Master No Grid Error	Please confirm connected bo connected firm After the abo disconnection connect to th If this fault ap
20	Master PV1 Voltage High Error	Please check
21	Master PV2 Voltage High Error	the maximum After the above the inverter.
22	Master PV3 Voltage High Error	
23	Master PV4 Voltage High Error	If this fault ap
24	Master HW PV1 Current High	
25	Master SW PV1 Current High	Diagona alta alta
26	Master HW PV2 Current High	Please check
27	Master SW PV2 Current High	reversed. After the abo
28	Master HW PV3 Current High	the inverter.
29	Master SW PV3 Current High	If this fault ap
30	Master HW PV4 Current High	ii tiis idult ap
31	Master SW PV4 Current High	
32	Master Relay Error	Automatic rec after a total o If this fault ap

Troubleshooting

rm whether the power grid is powered off, whether the gridpox switch is tripped, and whether the AC cable of the inverter is irmly.

ove inspections confirm that there is no power failure or

on, or insecure connection, please close the AC switch and rehe grid,

appears continuously, please contact the SAJ service.

k whether the open-circuit voltage of each battery panel exceeds m input voltage of the inverter.

ove checks are confirmed, please close the AC switch and restart

appears continuously, please contact the SAJ service.

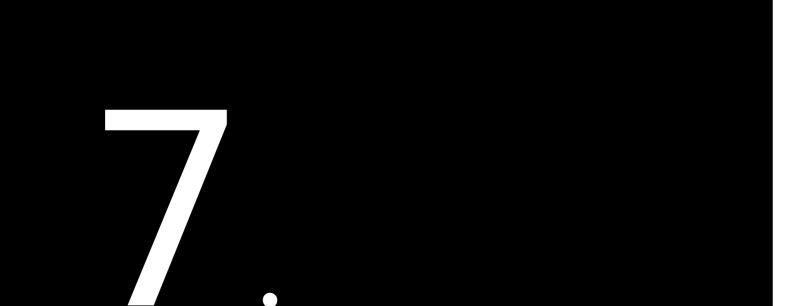
k whether the positive and negative poles of the battery board are

ove checks are confirmed, please close the AC switch and restart

appears continuously, please contact the SAJ service.

ecovery, the recovery wait time is 10 minutes, and it will not recover of 4 times.

appears continuously, please contact the SAJ service.



RECYCLING & DISPOSAL



This device should not be disposed of as residential waste. An Inverter that has reached the end of its life is not required to be returned to your dealer. It must be disposed of carefully by an approved collection and recycling facility in your area.

Contact SAJ

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