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SAJ



R6 series

ROOFTOP SOLAR INVERTER user manual R6-5~10K-T2

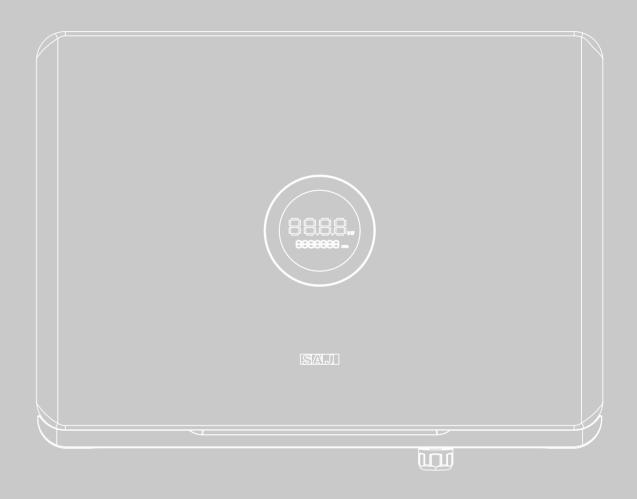






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SAFETY



1.1 Scope of Application

This User Manual describes instructions and detailed procedures for installing, operating, maintaining, and troubleshooting of the following SAJ on-grid inverters:

R6-5K-T2, R6-10K-T2

Please keep this manual all time available in case of emergency.

1.2 Safety

1.2.1 Safety Instructions



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



! WARNING

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



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



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

1.2.2 Explanations of Symbols

Symbol	Description
4	Dangerous electrical voltage This device is directly connected to public grid, thus all work to the inverter shall only be carried out by qualified personnel.
5min	Danger to life due to high electrical voltage! There might be residual currents in inverter because of large capacitors. Wait 5 minutes before you remove the front lid.
<u>.</u>	Notice, danger! This is directly connected with electricity generators and public grid.
	Danger of hot surface The components inside the inverter will release a lot of heat during operation. Do not touch metal plate housing during operating.
	An error has occurred Please go to Chapter 6 "Troubleshooting" to remedy the error.
Z	This device SHALL NOT be disposed of in residential waste Please go to Chapter 7 "Recycling and Disposal" for proper treatments.
C€	CE Mark With CE mark & the inverter fulfills the basic requirements of the Guideline Governing Low-Voltage and Electro-magnetic Compatibility.
Cac	CQC Mark The inverter complies with the safety instructions from China's Quality Center.

1.2.3 Safety Instructions



- · There is possibility of dying due to electrical shock and high voltage.
- · 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 terminals
- · Do not touch the surface of the inverter while the housing is wet, otherwise, it might cause electrical shock.
- · Do not stay close to the inverter 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 wait for at least five minutes to let the energy storage capacitors completely discharged after disconnecting from power source.



! WARNING

- · The installation, service, recycling and disposal of the inverters must be performed by qualified personnel only in compliance with national and local standards and regulations.
- · Any unauthorized actions including modification of product functionality of any form may cause lethal hazard to the operator, third parties, the units or their property. SAJ is not responsible for the loss and these warranty claims.
- · The SAJ inverter must only be operated with PV generator. Do not connect any other source of energy to the SAJ inverter. · Be sure that the PV generator and inverter are well grounded in order to protect properties and persons.
 - ! CAUTION

- · The solar inverter will become hot during operation. Please do not touch the heat sink or peripheral surface during or shortly after operation.
- · Risk of damage due to improper modifications.

NOTICE

- · The solar inverter is designed to feed AC power directly to the public utility power grid; do not connect AC output of the inverter to any private AC equipment.

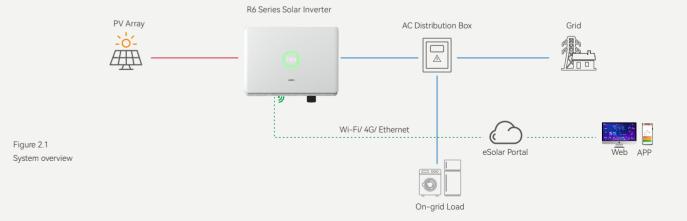
PRODUCT overview



R6 series

R6 products are grid-tied three phase inverters without transformers, and the inverters are important components of grid-tied solar power systems.

The R6 inverter converts the DC generated by solar panels into AC which is in accordance with the requirements of public grid and send the AC into the grid, Figure 2.1 shows the structural diagram of the typical application system.



2.1 Specification for Product Model

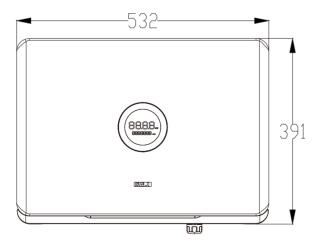
 $\frac{R6}{\tiny \bigcirc} - \frac{XK}{\tiny \bigcirc} - \frac{TX}{\tiny \bigcirc}$

① R6 represents for product name.

② XK represents rated power XkW of inverter, for example 5K means 5kW.

③ T means three phase; X represents the inverter has the function of X MPP trackers.

2.2 Appearance



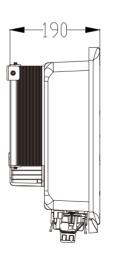
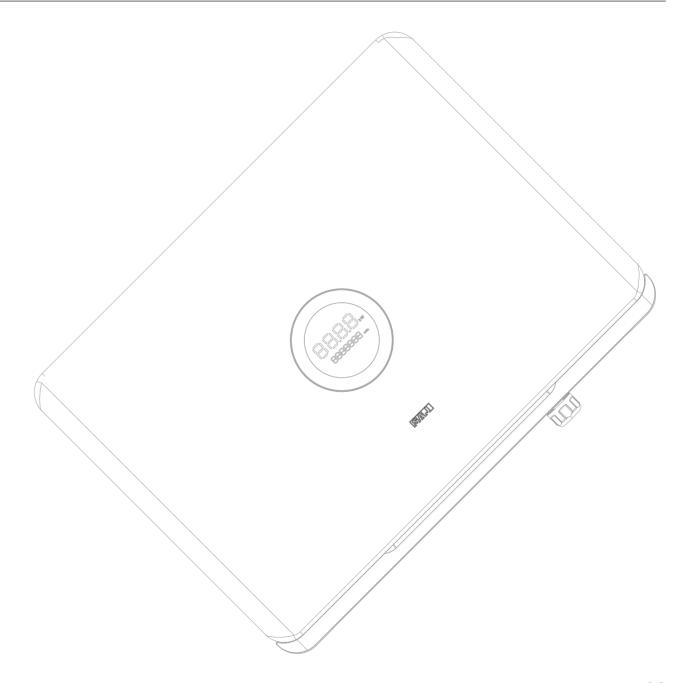


Figure 2.2
Dimensions of products



2.3 Datasheet

R6-5K/10K-T2

Model	R6-5K-T2	R6-10K-T2
Input (DC)	'	
Max. PV Array Power [Wp]@STC	7500	15000
Max. Input Voltage [V]	1100	
MPP Voltage Range [V]	160-950	
Nominal Input Voltage [V]	600	
Start-up Voltage [V]	180	
Min. Input Voltage[V]	150	
Max. Input Current [A]	16/16	
Max. Short-Circuit Current[A]	19.2/19.2	
Number of MPP Trackers	2	
Number of Strings per MPP Tracker	1/1	
DC Switch	Integrated	I
Output (AC)		
Rated AC Output Power [W]	5000	10000
Max. Apparent Power [VA]	5500	11000
Rated AC Output Current [A]@220Vac/@230Vac	7.6/7.3	15.2/14.7
Max. AC Output Current [A]	8.4	16.7
Nominal AC Voltage/ Range [V]	3+N+PE, 220/380, 230/400, 240/415; 180-280/312-485	
Nominal AC Grid Frequency/ Range [Hz]	50, 60/45-55, 55-65	
Total Distortion Harmonic [THDi]	< 3%	
Power Factor	0.8 leading ~ 0.8	lagging
Feed-in Phases/AC Connection Phases	3/3	
Efficiency		
Max. Efficiency	98.5%	98.6%
Euro Efficiency	98.2%	98.3%
Protection		
Overvoltage Protection	Integrated	I
DC Insulation Rsistance Detection	Integrated	I
DCI monitoring	Integrated	
GFCI monitoring	Integrated	
Grid monitoring	Integrated	I
AC Short Circuit Current Protection	Integrated	1
AC Grounding Detection	Integrated	

Model	R6-5K-T2	R6-10K-T2	
DC surge protection	Integr	Integrated	
AC surge protection	Integr	Integrated	
Overheating protection	Integr	rated	
Anti-islanding Protection	AF	D	
AFCI Protection	Optio	onal	
Interface	,		
AC Connection	Plug-in co	onnector	
DC Connection	D4/MC4(0	Optional)	
Display	LED+.	APP	
Communication Port	RS232(USB)+RS4	485(RJ45)+DRM	
Communication Mode	Wi-Fi/Ethernet	/4G(Optional)	
Load Monitoring	24/7 (Op	otional)	
General Data			
Topology	Non-iso	olated	
Consumption at Night [W]	<1	1	
Operating Temperature Range	-40°C ~ +60°C (45°C to	o 60°C with derating)	
Cooling Method	Natural Co	onvection	
Ambient Humidity	0% ~ 100% nor	n-condensing	
Max. Operating Altitude [m]	4000m (>3000m	power derating)	
Noise [dBA]	<3	5	
Ingress Protection	IP6	55	
Mounting	Wall Mo	punting	
Dimensions [H*W*D] [mm]	391*53	2*190	
Weight [kg]	15		
Warranty [Year]	Refer to the w	varranty polic	
Certifications	EN 62109-1/2, EN 61000-6-1/2/3/4, EN 50438, EN RD 413, UNE 206006, UNE 206007, NTS, CE		
	NBR 16150 VDE-AR-N 4105	5, VDE 0126-1-1,PEA, MEA	

INSTALLATION



3.1 Safety Instructions



DANGER

- 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 perfor med by qualified personnel only in compliance with national and local standards and regulations.



NOTICE

- · This equipment meets the pollution degree III.
- · Inappropriate or the harmonized 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.

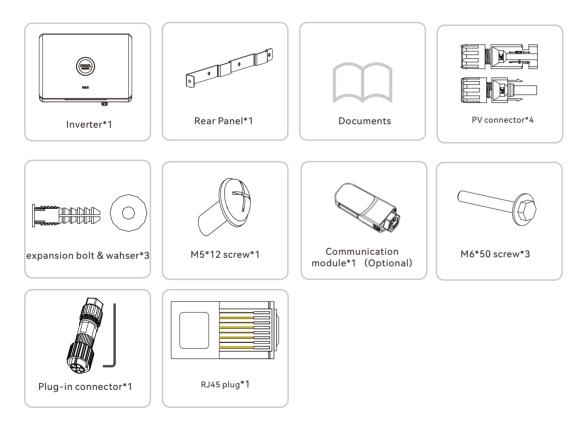
3.2 Pre-installation Check

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

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 Determine the installation method and position

- (1) The equipment employs natural convection cooling, and it can be installed indoor or outdoor.
- (2)Mount vertically or tilted backwards by max. 15°. Never install the inverter tilted forwards, sideways, horizontally or upside down.

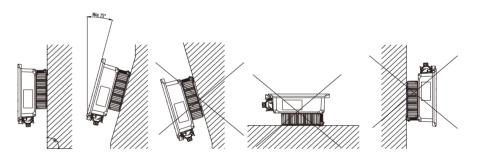


Figure 3.1 Mounting Method

- (3)Considering convenience for maintenance, please install the equipment at eye level.
- (4) When mounting the inverter, please consider the solidity of wall for inverter, including accessories, make sure the wall has enough strength to hold the screws and bear the weight of products. Please ensure the mounting bracket mounted tightly.

Ensure air circulation at the installation point. If several units are installed in the same area, the installation clearance requirements as shown in Figure 3.2 should be followed in order to provide suitable air circulation conditions for the unit.

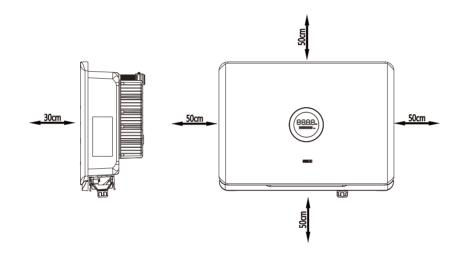


Figure 3.2 Mounting Clearance

Installation Environment Requirements

- The installation environment must be free of inflammable or explosive materials.
- 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.
- 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.
- When installing the device at the garage, please keep it away from drive way.
- 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.

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.

3.4 Mounting Procedure

(1) The mounting position should be marked as below.

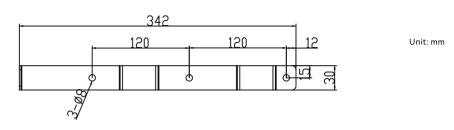


Figure 3.3 Hanging plate size

(2) Drill holes and fix screw fixing seat

Follow the given guides, drill 3 holes in the wall (in conformity with position marked in Figure 3.4), and then place expansion tubes in the holes using a rubber mallet.

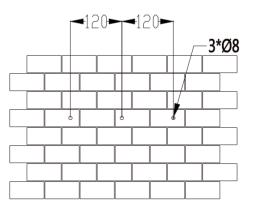
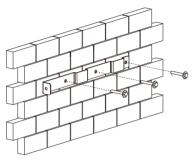


Figure 3.4 Drilling holes position

(3) Fix screw and hanging plate

Fix the hanging plate in the installation position with M6*50mm hexagon screw as shown in Figure 3.5.

Unit: mm





(4) Mount the inverter

Carefully mount the inverter to the mounting bracket. Make sure that the rear part of the equipment is closely mounted to the mounting bracket.

Then fix the inverter and hanging plate with M5*12mm external hexagon screw.

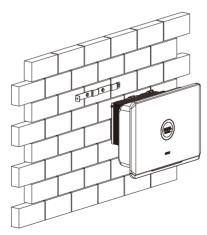


Figure 3.7 Securing the screws

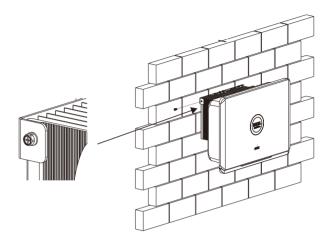


Figure 3.6 Mounting inverter

Figure 3.5 Securing the plate

ELECTRICAL



4.1 Safety Instruction

Electrical connection must only be operated on by professional technicians. Please keep in mind that the inverter is a bi-power supply equipment. Before connection, necessary protective equipment must be employed by technicians including insulating gloves, insulating shoes and safety helmet.



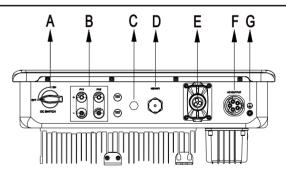
- Dangerous to life due to potential fire or electricity shock.
- When power-on, the equipment should in conformity with national rules and regulations.
- The direct connection between the inverter and high voltage power systems must be operated by qualified technicians in accordance with local and national power grid standards and regulations.
- The PV arrays will produce lethal high voltage when exposed to sunlight.



NOTICE

- Electrical connection should in conformity with proper stipulations, such as stipulations for cross-sectional area of conductors, fuse and ground protection.
- The overvoltage category on DC input port is , on AC output port is

4.2 Specifications for **Electrical Interface**



Code	Name
А	DC Switch
В	DC Input
С	Relief Valve
D	RS232 Communication (Wi-Fi/ 4G)
Е	RS485 Communication+ DRM
F	AC Output
G	Grounding port

Interface specification

4.3 AC side electrical connection

Please install a 4P circuit breaker to ensure the inverter is able to disconnect from grid safely. The inverter is integrated with a RCMU, however, an external RCD is needed to protect the system from tripping, either type A or type AC RCD is compatible with the inverter. The integrated leakage current detector of inverter is able to detect the real time external current leakage. When a leakage current detected exceeds the limitation the inverter will be disconnected from grid quickly, if an external leakage current device is connected, the action current should be 300mA or higher.

Table 4.2

Ac circuit breaker specifications are recommended

Туре	AC circuit breaker specifications
R6-5K-T2	16A
R6-10K-T2	20A

Table 4.3
Recommended AC cable specification

Type	Cross-sectional area of cables (mm²)		
Туре	Scope	Recommended value	
R6-5-10K-T2	4.0-6.0	6.0	

If the grid-connection distance is too far, please select AC cable with larger diameter as per the actual condition.

(1) For the grounding protection of the inverter, insert the M5*12mm outer hexagon screw clockwise through the OT terminal of the GND cable into the grounding port of the inverter shell, and tighten the screw.

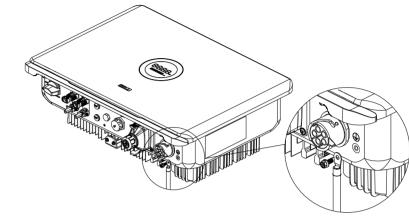


Figure 4.2 Inverter ground protection

Note: Recommended conductor cross-sectional area of additional grounding cable is 6-10mm².

(2) Take the outdoor five-core cable, peel off 50mm of the outer skin, and expose 10mm of the single-strand core. Then pass the AC wire through the AC waterproof sheath.



(3) When connecting cables, the AC cables should be tightened and fixed with a hex wrench according to the wiring labels L1, L2, L3, N and PE .



Figure 4.3 AC Cable Connection

Figure 4.4
Connect AC cables to AC connectors

(4) After checking the wiring, tighten the waterproof gland of AC connector respectively.



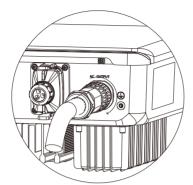


Figure 4.5 AC connector installation

4.4 DC Side Connection

• Make sure the PV array is well insulated to ground before connecting it to the inverter.

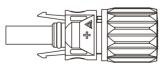
Table 4.4

Recommended specifications of DC cables

Cross-sectional area of cables (mm²)		Outside diameter of the cables (mm)
Scope	Recommended value	Outside diameter of the cables (mm)
4.0~6.0	4.0	4.2~5.3

DC connector is made up of one positive connector and one negative connector





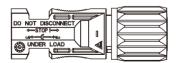


Figure 4.7 Negative connector



- · Please place the connector separately after unpacking in order to avoid confusion for connection of cables.
 · Please connect the positive connector to the positive side of the solar panels, and connect the penalty
- Please connect the positive connector to the positive side of the solar panels, and connect the negative connector to the negative side of the solar side. Be sure to connect them in right position.

Connecting Procedures:

- 1. Loosen the lock screws on positive and negative connector.
- 2. Strip the insulation of the positive and negative cables with 8-10mm length.

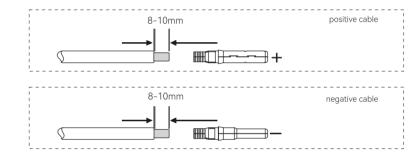
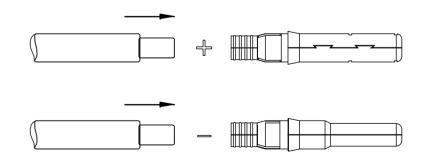


Figure 4.8 Striping off the insulation skin of cables

3. Assembly the positive and negative cables with corresponding crimping pliers.





4.Insert the positive and negative cable into positive and negative connector. Gently pull the cables backward to ensure firm connection.

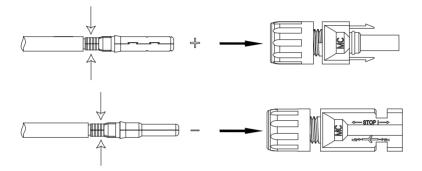


Figure 4.10
Inserting crimped cables to connectors

5. Fasten the lock screws on positive and negative connectors.

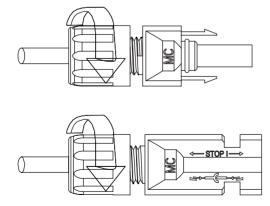
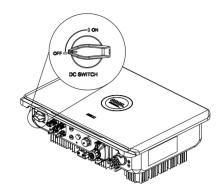


Figure 4.11

Securing the connectors

6.Make sure the DC switch is at OFF position



7.Connect the positive and negative connectors into positive and negative DC input terminals of the inverter, a "click" should be heard or felt when the contact cable assembly is seated correctly.

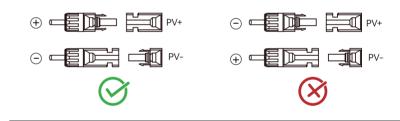


Figure 4.13 Plug in PV connectors

Figure 4.12 DC switch

 \cdot Before insert the connector into DC input terminal of the inverter, please make sure that the DC switch of the inverter is OFF.

NOTICE

· Please use the original terminal to install.

4.5 Earth Fault Alarm This inverter complies with IEC 62109-2 clause 13.9 for earth fault alarm

This inverter complies with IEC 62109-2 clause 13.9 for earth fault alarm monitoring. If an Earth Fault Alarm occurs, the second LED indicator will be lit up until the error being solved and inverter functioning properly. Note: The inverter cannot be used with functionally earthed PV Arrays.

4.6 Communication Connection

Figure 4.9 RS485 pin

Table 4.6 RS485 pin port definition

Figure 4.10 RS232 pin

Table 4.5 USB pin port definition 1234

a RS232 interface

12345678

Pin Number	Description	Effect
1	+5V	Power supply
2	RS-232 TX	Send data
3	RS-232 RX	Receive data
4	GND	Ground wire

To comply with Australian and New Zealand safety requirements, the DRMs terminals should be connected. DRM0 is supported. A RJ45 plug is being used as the inverter DRED connection.

R6 inverter is standardly equipped with a RS485 interface, a DRM interface and

Pin Number

2

3

4

5

7

8

Description

NC

NC

NC

NC

NC

NC

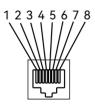
RS485-A

RS485-B

Effect

Transmission RS485 differential signal

Transmission RS485 differential signal



Pin NO.	Name
1	NC
2	NC
3	NC
4	NC
5	REF GEN
6	COM LOAD
7	NC
8	NC

Table 4.7 DRM0 mode

Figure 4.12

RJ45 plug

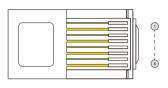
Figure 4.13

Inserting cables

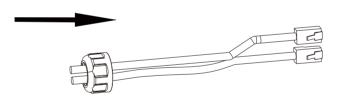
Mode	Corresponding pins	Requirement
DRM0	5 & 6	The inverter is on standby mode

Proceed as follow to connect the RS485 cables to the inverter

1.(Optional) The RS485 cable is prepared by user. It is recommended to strip the RS485 cable and Ethernet wire insulation. Insert the stripped Ethernet wires in correct order into the RJ45 plug (please refer to fig 5.14 and table 5.5 for order) and crimp it with a crimper.



2.Insert the cable through the sealing nut of cable gland



3.Install the rubber seal onto cables

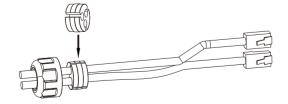


Figure 4.14 Inserting rubber seal

Demand Response Modes (DRM)

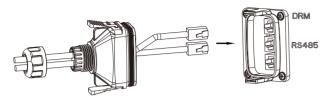
27

Figure 4.11

DRM pin

Table 4.6

4.Insert the RJ45 cables into the corresponding ports



5.Secure the cable gland by rotating sealing nut and plug the cable gland to communication port of inverter

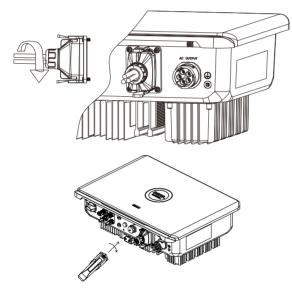


Figure 4.16 Inserting RJ45 cables

Figure 4.17
Installing communication module

Plug in the communication module to $4\mbox{G/WIFI}$ port and secure the module by rotating the nut.

- 1. USB interface could be externally connected with eSolar AlO3 module, for operation in details please refer to eSolar AlO3 module Quick Installation Guide in https://www.sajelectric.com/.
- 2. USB interface could be externally connected with eSolar 4G module, for operation in details please refer to eSolar 4G module Quick Installation Guide in https://www.saj-electric.com/.
- 3. USB interface could be externally connected with eSolar WiFi module, for operation in details please refer to eSolar WiFi module Quick Installation Guide in https://www.saj-electric.com/.

4.7 Start up and Shut down Inverter

4.7.1 Start Up the Inverter

- 1. Follow the installation standard from previous chapter strictly to connect the photovoltaic panels and AC power grid to inverter.
- 2. Using multimeter to check whether AC side and DC side voltage have met the inverter start voltage.
- 3. Turn ON DC switch (if applicable), LED indicators will be lit up.
- 4. Select country grid code through the APP (See Chapter 5 Monitoring Operations), please contact your local grid operator for which region toselect. Inverter will be in self-testing, if inverter has met all the grid connecting condition, inverter will connect to grid and generate power automatically.

4.7.2 Shut Down the Inverter

- 1. Automatically shut down, when the solar light intensity is not strong enough during sunrise and sunset or the output voltage of photovoltaic system is less than the minimum input power of inverter, inverter will shut down automatically.
- 2. Shut down manually, disconnect AC side circuit breaker first, if multiple inverters are connected, disconnect the minor circuit breaker prior to disconnection of main circuit breaker. Disconnect the DC switch after inverter has reported grid connection lost alarm.

4.8 AFCI (Optional)

The inverter is equipped with arc-fault circuit interrupter (AFCI). With AFCI protection, when there is an arc signal on the DC side due to aging of the cable or loose contact, R6 series can quickly detect and cut off the power to prevent fire, making the PV system run more safely.

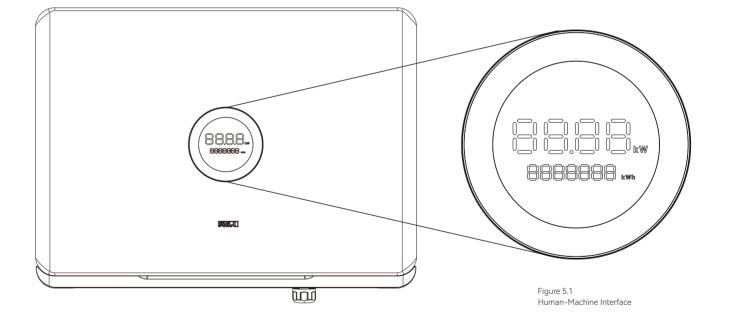
Inserting RJ45 cabi

Figure 4.15

Inserting RJ45 cables

DEBUGGINGinstructions

5.1 Introduction to man-machine Interface





Display	Status		Description
)	Solid Green	The inverter is in normal on-grid state
	0	Breathing Mode	Mode The inverter is in the initialization or waiting sta
Ring Light	0	Solid Red	An error occurs
		Breathing Mode	Software is upgrading in the inverter
	0	OFF	Power off
LED Panel 1	8888 / £036		Current power (kW) / Error code
LED Panel 2	LED Panel 2 8889899 wh		Total yield (kWh)

Talbe 5.1 Interface description

5.2 MonitoringOperation

- R6 series products could be monitored through eSolar APP.
- This equipment is standardly equipped with a USB interface which could transfer AlO3/4G module and Wi-Fi module to monitor running state of the equipment.

5.2.1 APP Introduction

eSAJ Home could achieve communication with the equipment via Bluetooth ,Ethernet ,Cellular network and Wi-Fi and it is an APP for nearby and remote monitoring.

Download eSAJ Home APP

iOS system: search for "eSAJ Home" in App Store and download this App..

Android system: search for "eSAJ Home" in Google play and download this App.

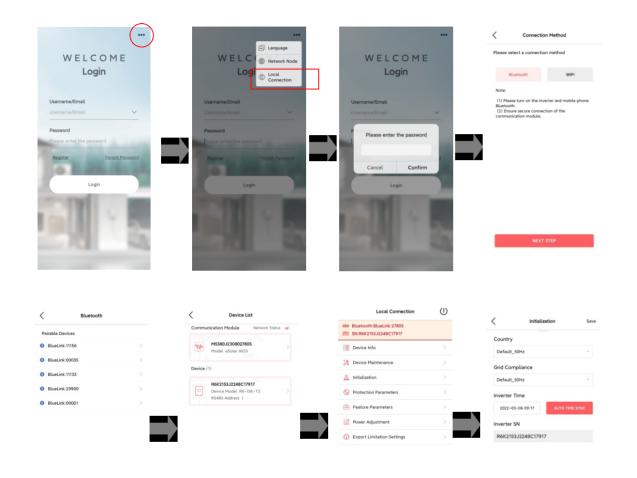
Account---Please use the installer account to login.

5.2.2 Local connection

Bluetooth connection

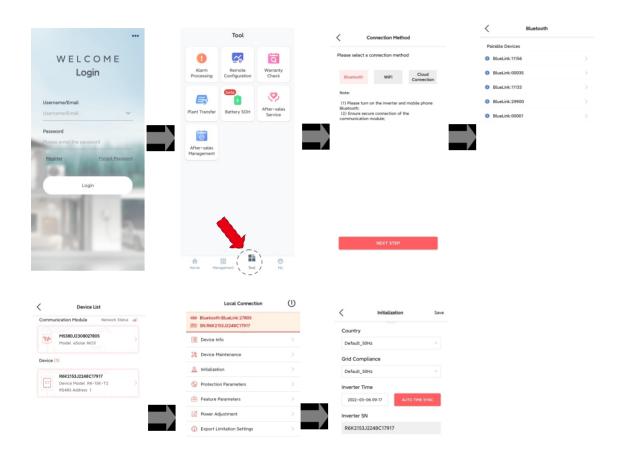
After installing the eSolar AlO3/4G/WiFi module, the mobile phone could be directly connected with the inverter via Bluetooth.

- Step 1: Open eSAJ APP and click on the dot icon on the top right corner
- Step 2: Select "Local Connection"
- Step 3: Enter password "123456"
- Step 4: Click on "Bluetooth" and activate the Bluetooth function on your phone, then click on "Next"
- Step 5: Choose your inverter according to your inverter SN's tail numbers
- Step 6: Click on the inverter to enter inverter setting
- Step 7: Select the corresponding country and grid code for



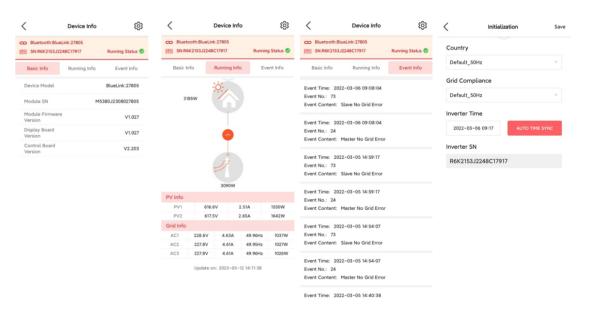
5.2.3 Account Login

- Step 1: Log in to eSAJ Home, if you do not have an account, please register first.
- Step 2: Go to the "Tool" interface and select "Remote Configuration"
- Step 3: Click on "Bluetooth" and activate the Bluetooth function on your phone, then click on
- Step 4: Choose your inverter according to your inverter SN's tail numbers
- Step 5: Click on the inverter to enter inverter setting
- Step 6: Select the corresponding country and grid code for



5.2.4 Inverter Setting Review

After commissioning, the device info including device basic info, running info and event info can be viewed. Country and grid code can be viewed from initial setting.



5.2.5 Remote Monitoring

Connect the internet via the eSolar/4G/WiFi module, and upload the inverter data onto the server and customers could monitor running information of the inverter remotely via the eSolar Web Portal or their mobile customer terminals.

5.3 Export Limit Setting

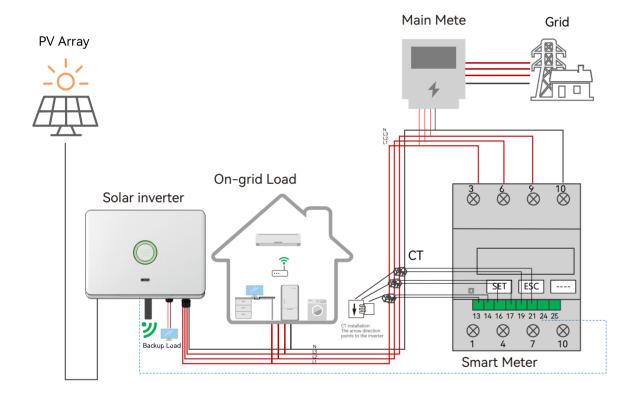


Figure 5.4 Export limit wiring schematic

5.3.1 APP Setting

Enter the main page of local connection and click on Export limitation setting, enter the password "201561".

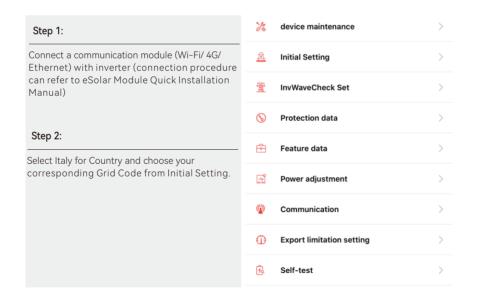


There are two methods to control the export limit, the two methods are alternative to each other. Method1: Export limitation setting is to control the export electricity to the grid. Method 2: Generation limit is to control the electricity generated by the inverter.

5.4 Self-test

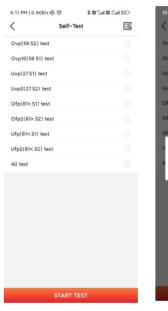
(For Italy)

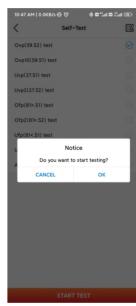
Italian Standard CEI0-21 requires a self-test function for all inverter that connected to utility grid. During the self-testing time, inverter will check the reaction time for over frequency, under frequency, overvoltage and undervoltage. This self-test is to ensure the inverter is able to disconnect from grid when required. If the self-test fails, the inverter will not able to feed into the grid.

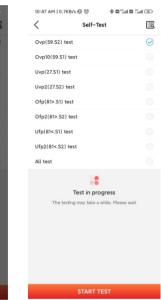


Step 3:Start Self-test

You can choose self-test item required. Individual self-test time is approx. 5 minutes. All self-test time is approx. 40 minutes. After the self-test is completed, you can save the test report. If self-test is failed, please contact with SAJ or your inverter supplier.







5.5 Setting Reactive Power Control

(For Australia)

5.5.1 Setup Fixed Power Factor Mode & Fixed Reactive Power Mode

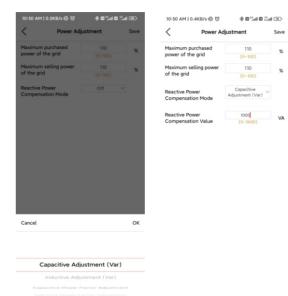
Fixed Power Factor Mode



Step 1: Select Power Adjustment and enter password "201561".

Step 2: Select Capacitive Power Factor or Inductive Power Factor according to your local grid regulation. The power factor range is from 0.8 leading ~ 0.8 lagging.

Fixed Reactive Power Mode



Step 1: Select Inductive Adjustment Var or Capacitive Var according to your local grid regulation. The power range is from -60%Pn 60%Pn.

5.5.2 Setup V-Watt and Volt-Var mode

This inverter complies with AS/NZS 4777. 2020 for power quality response modes. The inverter satisfies different regions of DNSPs' grid connection rules requirements for voltwatt and volt-var Settings. e.g.: AS4777 series setting as below Fig 5.5&5.6.

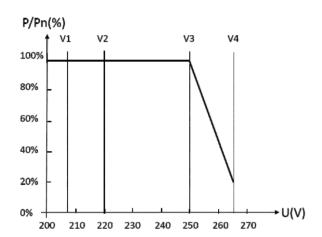


Figure 5.5
Curve for a Volt-Watt response mode (AS4777 Series)

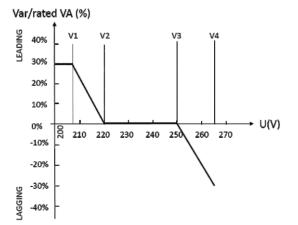
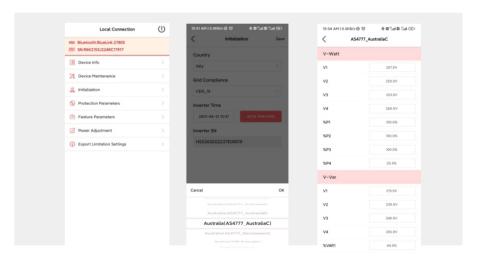


Figure 5.6 Curve for a Volt-Var control mode (AS4777 Series)

Setting procedure:

- 1.AS4777 grid compliance has been set during production, please select corresponding grid compliance according to state regulation during installation. You can choose a state regulation compliance with your local grid via eSAJ Home.
- 2. Log in to eSAJ Home, click "Local Connection", for connection procedure please refer to chapter 5.2.2 Nearby monitoring.
- 3. Click "V-Watt/V-Var" to enter DNSPs settings, choose a suitable state regulation from the drop down list.



Note:

With regard to the Power rate limit mode, SAJ sets the product WGra to 16.67%Pn by default in the following cases according to the requirements of 3.3.5.2 as 4777.2: 2020.

- 1. Soft ramp up after connect,
- $2. \ Reconnect \ or \ soft \ ramp \ up/down \ following \ a \ response \ to \ frequency \ disturbance.$

Fault Code & Troubleshooting



Troubleshooting

Code	Fault Information
1	Master Relay Error
2	Master EEPROM Error
3	Master Temperature High Error
4	Master Temperature Low Error
5	Lost Communication M<->S
6	GFCI Device Error
7	DCI Device Error
8	Current Sensor Error
9	Master Phase1 Voltage High
10	Master Phase1 Voltage Low
11	Master Phase2 Voltage High
12	Master Phase2 Voltage Low
13	Master Phase3 Voltage High
14	Master Phase3 Voltage Lo w
15	Grid Voltage 10Min High
16	OffGrid Output Voltage Low
17	OffGrid Output Short Circuit
18	Master Grid Frequency High
19	Master Grid Frequency Low
21	Phase1 DCV High
22	Phase2 DCV High
23	Phase3 DCV High
24	Master No Grid Error
27	GFCI Error
28	Phase1 DCI Error
29	Phase2 DCI Error
30	Phase3 DCI Error
31	ISO Error
32	Bus Voltage Balance Error
33	Master Bus Voltage High
34	Master Bus Voltage Low
35	Master Grid Phase Lost
36	Master PV Voltage High
37	Master Islanding Error
38	Master HW Bus Voltage High
39	Master HW PV Current High

40 Master Self -Test Failed 41 Master HW Inv Current High 42 Master AC SPD Error 43 Master DC SPD Error 44 Master Grid NE Voltage Error 45 Master Fan1 Error 46 Master Fan2 Error 47 Master Fan3 Error 48 Master Fan4 Error 49 Lost Communication between Master and Meter 50 Lost Communication between inverter and Grid Meter 51 Lost Communication between inverter and Grid Meter 52 HMI EEPROM Error 53 HMI RTC Error 54 BMS Device Error 55 BMS Lost Conn 56 CT Device Err 57 AFCI Lost Err 58 Lost Com. H< -> S Err 59 Slave Phase1 Voltage High 50 Slave Phase2 Voltage Low 51 Slave Phase3 Voltage Low 52 Slave Prequency High 53 Slave Frequency Low 54 Slave Frequency Low 55 Slave PV Input Mode Error 56 Slave PV Voltage High 57 Slave HW PV Curr High 58 Lost Communication D< -> C 58 Master Arc Device Error	Code	Fault Information
Master AC SPD Error Master DC SPD Error Master Grid NE Voltage Error Master Fan1 Error Master Fan2 Error Master Fan3 Error Master Fan4 Error Lost Communication between Master and Meter Lost Communication between inverter and Grid Meter Lost Communication between inverter and Grid Meter Master Fan4 Error Lost Communication between inverter and Grid Meter Master Fan4 Error Master Fan4 Error Lost Communication between inverter and Grid Meter Master Fan4 Error Master Fan4 Error Master Fan4 Error Master Fan4 Error Master AC SPD Error Master Fan4 Error Master Fan2 Error Master AC SPD Error Master Fan4 Error Master Fan4 Error Master AC SPD Error Master Fan4 Error Master AC SPD Error Master AC Device Error	40	Master Self -Test Failed
43 Master DC SPD Error 44 Master Grid NE Voltage Error 45 Master Fan1 Error 46 Master Fan2 Error 47 Master Fan3 Error 48 Master Fan4 Error 49 Lost Communication between Master and Meter 50 Lost Communication between inverter and Grid Meter 51 Grid Meter 52 HMI EEPROM Error 53 HMI RTC Error 54 BMS Device Error 55 BMS Lost.Conn 56 CT Device Err 57 AFCI Lost Err 58 Lost Com. H<->S Err 59 Slave Phase1 Voltage High 50 Slave Phase2 Voltage High 51 Slave Phase3 Voltage Low 52 Slave Phase3 Voltage Low 53 Slave Prequency High 54 Slave Frequency High 55 Slave Phase3 Voltage Low 56 Slave Phase3 Voltage Low 57 Slave Phase3 Voltage Low 58 Slave Phase3 Voltage Low 59 Slave Phase3 Voltage Low 50 Slave Phase3 Voltage High 50 Slave Phase3 Voltage High 51 Slave Phase3 Voltage High 52 Slave Phase3 Voltage Low 53 Slave Phase3 Voltage Low 54 Slave Prequency High 55 Slave Phase3 Voltage High 56 Slave Prequency Low 57 Slave HW PV Curr High 58 Slave PV Voltage High 59 Slave PV Voltage High 50 Slave PV Voltage High 51 Slave HW PV Curr High 52 Slave PV Voltage High 53 Slave PV Voltage High 54 Slave PV Voltage High 55 Slave HW Bus Volt High 56 Slave PV Voltage High 57 Slave HW Bus Volt High 58 Slave Frequency Error	41	Master HW Inv Current High
44 Master Grid NE Voltage Error 45 Master Fan1 Error 46 Master Fan2 Error 47 Master Fan3 Error 48 Master Fan4 Error 49 Lost Communication between Master and Meter 50 Lost Communication between inverter and Grid Meter 51 Grid Meter 52 HMI EEPROM Error 53 HMI RTC Error 54 BMS Device Error 55 BMS Lost.Conn 56 CT Device Err 57 AFCI Lost Err 58 Lost Com. H<->S Err 59 Slave Phase1 Voltage High 50 Slave Phase2 Voltage High 51 Slave Phase3 Voltage Low 52 Slave Phase3 Voltage Low 53 Slave Frequency High 54 Slave Frequency High 55 Slave Phase3 Voltage High 56 Slave Phase3 Voltage High 57 Slave Phase3 Voltage High 58 Slave Frequency High 59 Slave Phase3 Voltage High 50 Slave Phase3 Voltage High 51 Slave Phase3 Voltage High 52 Slave Phase3 Voltage High 53 Slave Phase3 Voltage High 54 Slave Frequency High 55 Slave Phase3 Voltage High 56 Slave Phase3 Voltage High 57 Slave HW PV Curr High 58 Slave PV Voltage High 59 Slave PV Voltage High 50 Slave PV Voltage High 51 Slave HW Bus Volt High 51 Slave HW Bus Volt High 51 Lost Communication D<->C	42	Master AC SPD Error
Master Fan1 Error Master Fan2 Error Master Fan3 Error Master Fan4 Error Lost Communication between Master and Meter Lost Communication between Master and Grid Meter Master Fan4 Error Lost Communication between M< Meter Lost Communication between inverter and Grid Meter Master Fan4 Error Master Fan4 Error Master Fan4 Error Lost Communication between M< Meter Master Fan5 Error Master Fan6 Error Master Fan6 Error Master Fan8 Error	43	Master DC SPD Error
46 Master Fan2 Error 47 Master Fan3 Error 48 Master Fan4 Error 49 Lost Communication between Master and Meter 50 Lost Communication between inverter and Grid Meter 51 Grid Meter 52 HMI EEPROM Error 53 HMI RTC Error 54 BMS Device Error 55 BMS Lost.Conn 56 CT Device Err 57 AFCI Lost Err 58 Lost Com. H<->S Err 59 Lost Com. H<->S Err 50 Slave Phase1 Voltage High 50 Slave Phase2 Voltage High 51 Slave Phase3 Voltage Low 52 Slave Phase3 Voltage Low 53 Slave Phase3 Voltage Low 54 Slave Phase3 Voltage High 55 Slave Phase3 Voltage High 56 Slave Phase3 Voltage High 57 Slave Frequency High 58 Slave Frequency High 59 Slave Phase3 Voltage Low 59 Slave Phase3 Voltage Low 50 Slave Phase3 Voltage High 50 Slave Phase3 Voltage High 51 Slave PV Input Mode Error 52 Slave HW PV Curr High 53 Slave PV Voltage High 54 Slave PV Voltage High 55 Slave HW Bus Volt High 56 Slave PV Voltage High 57 Slave HW Bus Volt High 58 Lost Communication D<->C	44	Master Grid NE Voltage Error
47 Master Fan3 Error 48 Master Fan4 Error 49 Lost Communication between Master and Meter 50 Lost Communication between M<->S 51 Lost Communication between inverter and Grid Meter 52 HMI EEPROM Error 53 HMI RTC Error 54 BMS Device Error 55 BMS Lost Conn 56 CT Device Err 57 AFCI Lost Err 58 Lost Com. H<->S Err 61 Slave Phase1 Voltage High 62 Slave Phase2 Voltage High 64 Slave Phase3 Voltage Low 65 Slave Phase3 Voltage High 66 Slave Phase3 Voltage Low 67 Slave Frequency High 68 Slave Frequency High 68 Slave Phase3 Voltage Low 73 Slave No Grid Error 74 Slave PV Input Mode Error 75 Slave HW PV Curr High 76 Slave PW Voltage High 77 Slave HW Bus Volt High 81 Lost Communication D<->C 83 Master Arc Device Error	45	Master Fan1 Error
48 Master Fan4 Error 49 Lost Communication between Master and Meter 50 Lost Communication between M< ->S 51 Lost Communication between inverter and Grid Meter 52 HMI EEPROM Error 53 HMI RTC Error 54 BMS Device Error 55 BMS Lost.Conn 56 CT Device Err 57 AFCI Lost Err 58 Lost Com. H< ->S Err 61 Slave Phase1 Voltage High 62 Slave Phase2 Voltage High 63 Slave Phase3 Voltage High 64 Slave Phase3 Voltage Low 65 Slave Phase3 Voltage Low 66 Slave Phase3 Voltage High 66 Slave Phase3 Voltage High 68 Slave Frequency High 68 Slave Frequency High 68 Slave Product Fror 75 Slave No Grid Error 75 Slave HW PV Curr High 76 Slave PV Voltage High 77 Slave HW Bus Volt High 81 Lost Communication D< ->C 83 Master Arc Device Error	46	Master Fan2 Error
Lost Communication between Master and Meter 50 Lost Communication between M<->S Lost Communication between inverter and Grid Meter 52 HMI EEPROM Error 53 HMI RTC Error 54 BMS Device Error 55 BMS Lost.Conn 56 CT Device Err 57 AFCI Lost Err 58 Lost Com. H<->S Err 61 Slave Phase1 Voltage High 62 Slave Phase2 Voltage Low 63 Slave Phase3 Voltage High 64 Slave Phase3 Voltage High 65 Slave Phase3 Voltage High 66 Slave Phase3 Voltage Low 70 Slave Frequency High 81 Slave PV Voltage High 71 Slave HW PV Curr High 72 Slave HW Bus Volt High 81 Lost Communication D<->C 83 Master Arc Device Error	47	Master Fan3 Error
Meter Lost Communication between M<->S Lost Communication between inverter and Grid Meter HMI EEPROM Error HMI RTC Error BMS Device Error BMS Lost.Conn CT Device Err AFCI Lost Err Sa Lost Com. H<->S Err Slave Phase1 Voltage High Slave Phase2 Voltage Low Slave Phase3 Voltage High Slave Phase3 Voltage Low Slave Phase3 Voltage High Slave Frequency High Slave Frequency High Slave Frequency Low Slave PV Input Mode Error Slave PV Voltage High Master Arc Device Error	48	Master Fan4 Error
51 Lost Communication between inverter and Grid Meter 52 HMI EEPROM Error 53 HMI RTC Error 54 BMS Device Error 55 BMS Lost.Conn 56 CT Device Err 57 AFCI Lost Err 58 Lost Com. H<->S Err 61 Slave Phase1 Voltage High 62 Slave Phase2 Voltage Low 63 Slave Phase2 Voltage High 64 Slave Phase3 Voltage High 65 Slave Phase3 Voltage High 66 Slave Phase3 Voltage High 67 Slave Frequency High 68 Slave Frequency High 68 Slave Frequency High 69 Slave Frequency Low 70 Slave No Grid Error 71 Slave PV Voltage High 72 Slave HW PV Curr High 73 Slave HW Bus Volt High 74 Slave HW Bus Volt High 75 Slave HW Bus Volt High 86 Master Arc Device Error	49	
Grid Meter 52 HMI EEPROM Error 53 HMI RTC Error 54 BMS Device Error 55 BMS Lost.Conn 56 CT Device Err 57 AFCI Lost Err 58 Lost Com. H<->S Err 61 Slave Phase1 Voltage High 62 Slave Phase2 Voltage High 63 Slave Phase2 Voltage High 64 Slave Phase3 Voltage Low 65 Slave Phase3 Voltage Low 65 Slave Phase3 Voltage Frequency High 66 Slave Phase3 Voltage High 67 Slave Frequency High 68 Slave Frequency High 68 Slave Frequency High 69 Slave Phase3 Voltage Low 70 Slave Frequency High 71 Slave PV Input Mode Error 72 Slave HW PV Curr High 73 Slave HW Bus Volt High 74 Slave PV Voltage High 75 Slave HW Bus Volt High 76 Slave FW Was Volt High 77 Slave HW Bus Volt High 81 Lost Communication D<->C 83 Master Arc Device Error	50	Lost Communication between M<->S
53 HMI RTC Error 54 BMS Device Error 55 BMS Lost.Conn 56 CT Device Err 57 AFCI Lost Err 58 Lost Com. H<->S Err 61 Slave Phase1 Voltage High 62 Slave Phase2 Voltage High 64 Slave Phase2 Voltage High 65 Slave Phase3 Voltage Low 65 Slave Phase3 Voltage Low 65 Slave Phase3 Voltage High 66 Slave Phase3 Voltage Frequency High 68 Slave Frequency High 68 Slave Frequency Low 73 Slave No Grid Error 74 Slave PV Input Mode Error 75 Slave HW PV Curr High 76 Slave PV Voltage High 77 Slave HW Bus Volt High 81 Lost Communication D<->C 83 Master Arc Device Error	51	
54 BMS Device Error 55 BMS Lost.Conn 56 CT Device Err 57 AFCI Lost Err 58 Lost Com. H<->S Err 61 Slave Phase1 Voltage High 62 Slave Phase2 Voltage High 63 Slave Phase2 Voltage High 64 Slave Phase3 Voltage Low 65 Slave Phase3 Voltage Low 66 Slave Phase3 Voltage High 66 Slave Phase3 Voltage Frequency High 68 Slave Frequency High 68 Slave Frequency Low 73 Slave No Grid Error 74 Slave PV Input Mode Error 75 Slave HW PV Curr High 76 Slave PV Voltage High 77 Slave HW Bus Volt High 81 Lost Communication D<->C 83 Master Arc Device Error	52	HMI EEPROM Error
55 BMS Lost.Conn 56 CT Device Err 57 AFCI Lost Err 58 Lost Com. H<->S Err 61 Slave Phase1 Voltage High 62 Slave Phase2 Voltage High 63 Slave Phase2 Voltage High 64 Slave Phase3 Voltage Low 65 Slave Phase3 Voltage Low 66 Slave Phase3 Voltage High 66 Slave Phase3 Voltage Figh 68 Slave Frequency High 68 Slave Frequency High 68 Slave Frequency Low 73 Slave No Grid Error 74 Slave PV Input Mode Error 75 Slave HW PV Curr High 76 Slave PV Voltage High 77 Slave HW Bus Volt High 81 Lost Communication D<->C 83 Master Arc Device Error	53	HMI RTC Error
56 CT Device Err 57 AFCI Lost Err 58 Lost Com. H<->S Err 61 Slave Phase1 Voltage High 62 Slave Phase2 Voltage Low 63 Slave Phase2 Voltage High 64 Slave Phase3 Voltage High 65 Slave Phase3 Voltage Low 65 Slave Phase3 Voltage High 66 Slave Phase3 Voltage Frequency High 68 Slave Frequency High 68 Slave Frequency Low 73 Slave No Grid Error 74 Slave PV Input Mode Error 75 Slave HW PV Curr High 76 Slave PV Voltage High 77 Slave HW Bus Volt High 81 Lost Communication D<->C 83 Master Arc Device Error	54	BMS Device Error
57 AFCI Lost Err 58 Lost Com. H<->S Err 61 Slave Phase1 Voltage High 62 Slave Phase2 Voltage Low 63 Slave Phase2 Voltage High 64 Slave Phase3 Voltage High 65 Slave Phase3 Voltage High 66 Slave Phase3 Voltage High 68 Slave Frequency High 68 Slave Frequency Low 73 Slave No Grid Error 74 Slave PV Input Mode Error 75 Slave HW PV Curr High 76 Slave PV Voltage High 77 Slave HW Bus Volt High 81 Lost Communication D<->C 83 Master Arc Device Error	55	BMS Lost.Conn
58 Lost Com. H<->S Err 61 Slave Phase1 Voltage High 62 Slave Phase2 Voltage Low 63 Slave Phase2 Voltage High 64 Slave Phase3 Voltage Low 65 Slave Phase3 Voltage High 66 Slave Phase3 Voltage High 66 Slave Frequency High 68 Slave Frequency Low 73 Slave No Grid Error 74 Slave PV Input Mode Error 75 Slave HW PV Curr High 76 Slave PV Voltage High 77 Slave HW Bus Volt High 81 Lost Communication D<->C 83 Master Arc Device Error	56	CT Device Err
61 Slave Phase1 Voltage High 62 Slave Phase1 Voltage Low 63 Slave Phase2 Voltage High 64 Slave Phase2 Voltage Low 65 Slave Phase3 Voltage High 66 Slave Phase3 Voltage Low 67 Slave Frequency High 68 Slave Frequency Low 73 Slave No Grid Error 74 Slave PV Input Mode Error 75 Slave HW PV Curr High 76 Slave PV Voltage High 77 Slave HW Bus Volt High 81 Lost Communication D< ->C 83 Master Arc Device Error	57	AFCI Lost Err
62 Slave Phase1 Voltage Low 63 Slave Phase2 Voltage High 64 Slave Phase2 Voltage Low 65 Slave Phase3 Voltage High 66 Slave Phase3 Voltage Low 67 Slave Frequency High 68 Slave Frequency Low 73 Slave No Grid Error 74 Slave PV Input Mode Error 75 Slave HW PV Curr High 76 Slave PV Voltage High 77 Slave HW Bus Volt High 81 Lost Communication D< ->C 83 Master Arc Device Error	58	Lost Com. H<->S Err
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64 Slave Phase2 Voltage Low 65 Slave Phase3 Voltage High 66 Slave Phase3 Voltage Low 67 Slave Frequency High 68 Slave Frequency Low 73 Slave No Grid Error 74 Slave PV Input Mode Error 75 Slave HW PV Curr High 76 Slave PV Voltage High 77 Slave HW Bus Volt High 81 Lost Communication D< ->C 83 Master Arc Device Error	62	Slave Phase1 Voltage Low
65 Slave Phase3 Voltage High 66 Slave Phase3 Voltage Low 67 Slave Frequency High 68 Slave Frequency Low 73 Slave No Grid Error 74 Slave PV Input Mode Error 75 Slave HW PV Curr High 76 Slave PV Voltage High 77 Slave HW Bus Volt High 81 Lost Communication D< ->C 83 Master Arc Device Error	63	Slave Phase2 Voltage High
66 Slave Phase3 Voltage Low 67 Slave Frequency High 68 Slave Frequency Low 73 Slave No Grid Error 74 Slave PV Input Mode Error 75 Slave HW PV Curr High 76 Slave PV Voltage High 77 Slave HW Bus Volt High 81 Lost Communication D< ->C 83 Master Arc Device Error	64	Slave Phase2 Voltage Low
67 Slave Frequency High 68 Slave Frequency Low 73 Slave No Grid Error 74 Slave PV Input Mode Error 75 Slave HW PV Curr High 76 Slave PV Voltage High 77 Slave HW Bus Volt High 81 Lost Communication D< ->C 83 Master Arc Device Error	65	Slave Phase3 Voltage High
68 Slave Frequency Low 73 Slave No Grid Error 74 Slave PV Input Mode Error 75 Slave HW PV Curr High 76 Slave PV Voltage High 77 Slave HW Bus Volt High 81 Lost Communication D< ->C 83 Master Arc Device Error	66	Slave Phase3 Voltage Low
73 Slave No Grid Error 74 Slave PV Input Mode Error 75 Slave HW PV Curr High 76 Slave PV Voltage High 77 Slave HW Bus Volt High 81 Lost Communication D< ->C 83 Master Arc Device Error	67	Slave Frequency High
74 Slave PV Input Mode Error 75 Slave HW PV Curr High 76 Slave PV Voltage High 77 Slave HW Bus Volt High 81 Lost Communication D< ->C 83 Master Arc Device Error	68	Slave Frequency Low
75 Slave HW PV Curr High 76 Slave PV Voltage High 77 Slave HW Bus Volt High 81 Lost Communication D< ->C 83 Master Arc Device Error	73	Slave No Grid Error
76 Slave PV Voltage High 77 Slave HW Bus Volt High 81 Lost Communication D< ->C 83 Master Arc Device Error	74	Slave PV Input Mode Error
77 Slave HW Bus Volt High 81 Lost Communication D< ->C 83 Master Arc Device Error	75	Slave HW PV Curr High
81 Lost Communication D< ->C 83 Master Arc Device Error	76	Slave PV Voltage High
83 Master Arc Device Error	77	Slave HW Bus Volt High
	81	Lost Communication D< ->C
84 Master PV Mode Error	83	Master Arc Device Error
	84	Master PV Mode Error

Talbe 6.1 Error Code

Code	Fault Information
85	Authority expires
86	DRM0 Error
87	Master Arc Error
88	Master SW PV Current High

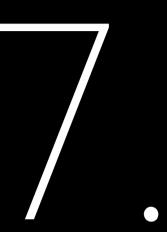
Please contact your supplier for troubleshooting and remedy

General troubleshooting methods for inverter are as follows:

Fault Information	Troubleshooting	
Relay Error	If this error occurs frequently, please contact your distributor or call SAJ technical support.	
Storer Error	If this error occurs frequently, please contact your distributor or call SAJ technical support.	
High Temperature Error	Check whether the radiator is blocked, whether the inverter is in too high or too low temperature, if the above mentioned is in normal, please contact your distributor or call SAJ technical support.	
Master Lost Communication	If this error occurs frequently, please contact your distributor or call SAJ technical support.	
GFCI Devices Error	If this error occurs frequently, please contact your distributor or call SAJ technical support.	
DCI Devices Error	If this error occurs frequently, please contact your distributor or call SAJ technical support.	
Current Sensor Error	If this error occurs frequently, please contact your distributor or call SAJ technical support.	
AC Voltage Error	Check the volt. of the grid Check the connection between the inverter and the grid. Check the settings of the on-grid standards of the inverter. If the volt. of the grid is higher than the volt. regulated by local grid, please inquire the local grid workers whether they can adjust the volt. at the feed point or change the value of the regulated volt. If the volt. of the grid is in regulated range as allowed and LCD still in this error, please contact your distributor or call SAJ technical support.	

Talbe 6.2 Troubleshooting

Fault Information	Troubleshooting
Frequency Error	Check the setting of country and check the frequency of the local grid. If the above mentioned are in normal, please contact your distributor or call SAJ technical support.
Grid Lost Error	Check the connection status between the AC side of the inverter and the grid, if the above mentioned are in normal, please contact your distributor or call SAJ technical support.
GFCI Error	Check the insulation resistance of the positive side and negative side of the solar panel; check whether the inverter is in wet environment; check the grounding of the inverter. If the above mentioned are in normal, please contact your distributor or call SAJ technical support.
DCI Error	If this error exists always, please contact your distributor or call SAJ technical support.
ISO Error	Check the insulation resistance of the positive side and negative side of the solar panel; check whether the inverter is in wet environment; check whether the grounding of the inverter is loose or not. If the above mentioned are in normal, please contact your distributor or call SAJ technical support.
Overcurrent	Check the connection status between the inverter and the grid and test whether the volt. of the grid is stable or not, if the above mentioned are in normal, please contact your distributor or call SAJ technical support.
Over Bus Voltage	Check the settings of the solar panel. SAJ designer can help you. If the above mentioned are in normal, please contact your distributor or call SAJ technical support.
PV Overcurrent	If this error always exists, please contact your distributor or call SAJ technical support.
PV Voltage Fault	Check the settings of the solar panel. SAJ designer can help you. If the above mentioned are in normal, please contact your distributor or call SAJ technical support.
Lost Communication	Check the connection of communication cables between control board and display board. If the above mentioned are in normal, please contact your distributor or call SAJ technical support.
Null line-to-earth voltage fault	Check if connection of the AC output grounding terminal is stable and reliable. If the content mentioned as above is normal, please contact your distributor or call SAJ technical support.



Recycling & Disposal





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