



SAJ GROUP

Communication Apps & wifi Connectivity

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CONTENTS

01 Short company introduction

02 Communication connectivity

03 Apps & system diagnostics

Vision

Becoming a Global Leader
in Smart Energy Storage

Mission

Creating a Green Environment For
a Fulfilling Life Together

Values

Customer Oriented Initiative & Innovative
Strive for Excellent Open & Inclusive

Growing the Value of Energy Storage

Three Value-addings

- Higher Safety
- Higher Efficiency
- Higher Profitability

Five leading Technologies

- Advanced Battery Management Technology
- Advanced Energy Conversion Technology
- Advanced Energy Storage Equipment Integration Technology
- Advanced Smart Energy Storage Management Technology
- Advanced Smart Energy Storage Operation and Maintenance Technology

19 Years of Dedication and Professionalism

Becoming a Global Leader in Smart Energy Storage



2005

Established in Guangzhou with Core Business of VFD

2013

Installed the first grid inverter in Australia. So far the device is running properly

2015

Launched Sunbrid, the First SAJ Residential Hybrid Solar Inverter

2018

► More than 10,000 SAJ OEM inverters installed in Australia
► SAJ was rated as the global top 10 inverter brands

2021

- Headquarter Phase 2 Building
- Launched the new version of eSAJ Home
- Wuxi R&D Center

2016

Inverters account for 25% of the Chinese market

2014

Guangzhou Headquarter Phase 1 Building

2011

Established the Renewable Energy Division Focusing Development of PV Inverters

2019

Established subsidiaries in Australia: SAJ Digital Energy Australia

2023

- European Marketing & Sales Center-Frankfurt
- Established subsidiaries in five European countries
- Changsha R&D Center
- Production of Manufacturing Plant 2 (Ganzhou, Jiangxi)

Prestigious Honors and Awards: Industry-leading Excellence and Innovation



2023 – Top 3 Installers' Favorite and Trusted Brands

2022 – Top 4 Global Shipping Volume of Household Energy Storage Among Chinese Brands

2022 – iF Design Award & Red Dot Design Award

2022 – Top 10 Distributed PV Inverter Brands (China)

2022 – SOLAR SOLUTIONS DÜSSELDORF – Best Innovation Award

2022 – Most Influential PV Inverter Enterprise – SOLARBE

2022 – Excellence Residential Energy Storage Solutions of the Year

2021 – TÜV Rheinland – PV Grid-connected Inverter (R5 Series)

2020 – China Distributed Solar PV Conference Top 10 Influential Inverter Brands

2019 – TÜV: All Quality Matters Award 2018



Comms APPS & WIFI connectivity

March 2025

SAJ Tech training objective –

Generate installer confidence & reduce the reliance on tech support via:-

- Wifi connectivity understanding - phone app programming & system diagnostics use
- Product programming via online apps
- product support material - localised ppt, online manual access, training updates, face book installer group CPD training download access

SAJ – Doing it differently

- Man on the ground in most states, all states covered – tech team operate from a van, not an office.
- Free phone number 1800 888725 – free site visits – free remote config & monitoring device.
- SAJ Tech - capture and note inbound support topics, dissect the data build training around this

What does the data reveal

- Over 98% - is not product failure - < 1.5% comprehensive fail rate. Not disastrous for any manufacturer, ensures repeat business & customer retention
- 90% of inbound calls are communication related

Which areas produce most inbound calls (no particular order)

- 1) Data comms – RS485 – Cat 5 connections – RJ45 pin selection – mod bus
- 2) Batteries - communication inverter to BMU
- 3) Wifi connection
- 4) Smart meter settings & CT coils
- 5) Programming
- 6) App usage
- 7) Firmware upgrades
- 8) RTFM fail ... [*\(stipulate - read the flipping manual\)*](#)

Inverter smarts are getting smarter & product reliance on them is greater than ever

- Can you even buy an inverter today that does not connect to home wifi?

Coming soon - or here already

- Home automation
- Artificial intelligence
- Energy trading
- [*Never been a greater need to understand communication & data platforms*](#)

02

R5 – 1 & 3 Phase



R6 – 1 & 3 Phase



H2 – 1 & 3 Phase



C6 – 3 Phase



SAJ

CHS2 – 3 Phase C&I



EleKeeper 1 * app for all product

Easy steps to connect SAJ Inverters with Wi-Fi



Elekeeper

02

eSAJ Home



Elekeeper

SAJ



Elekeeper

- **Integrated**

Integration of household and commercial energy management, using only one app and web management.

- **More compliant**

The privacy agreement is voluntarily agreed upon by the user.

- **More convenient**

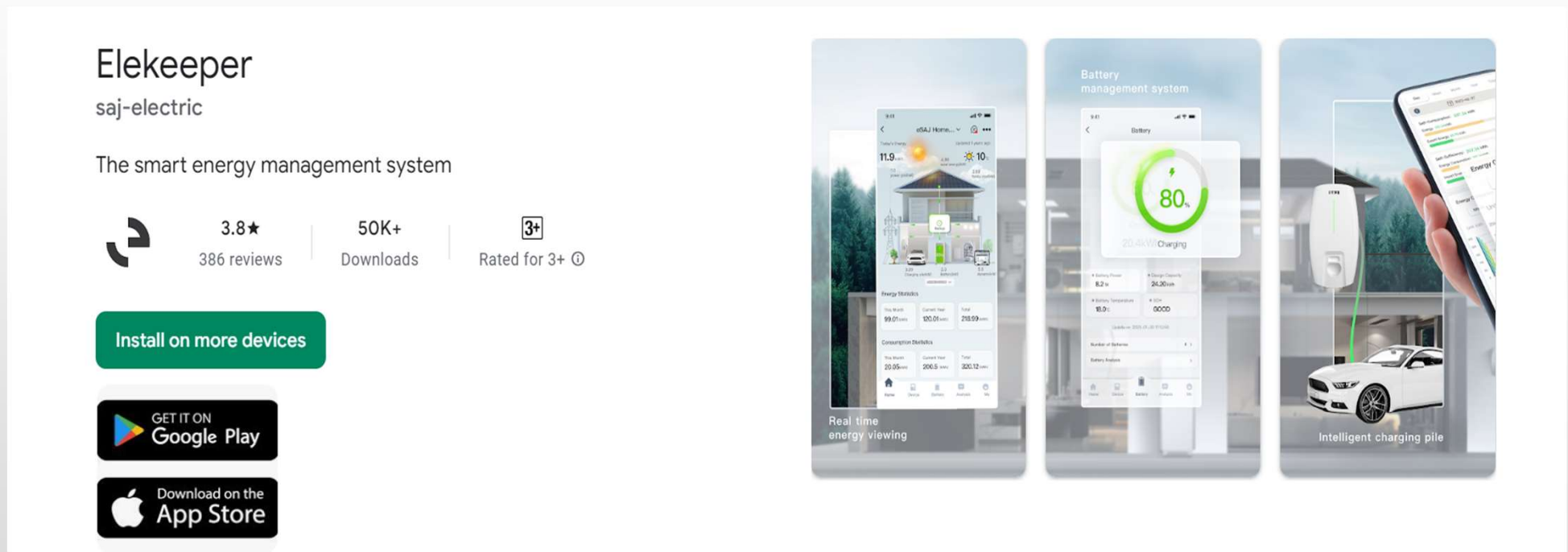
Web adds remote parameter configuration and batch parameter configuration, making it easier for installers to operate.

- **Brand customization**

Support SaaS based configuration of brand information, allowing dealers to quickly configure their own brands.

<https://www.youtube.com/watch?v=AcoDn4Qcoug>

Download Elekeeper App from Appstore/Play store



Elekeeper is SAJ latest app & replaces all previous apps (*July 2024*)

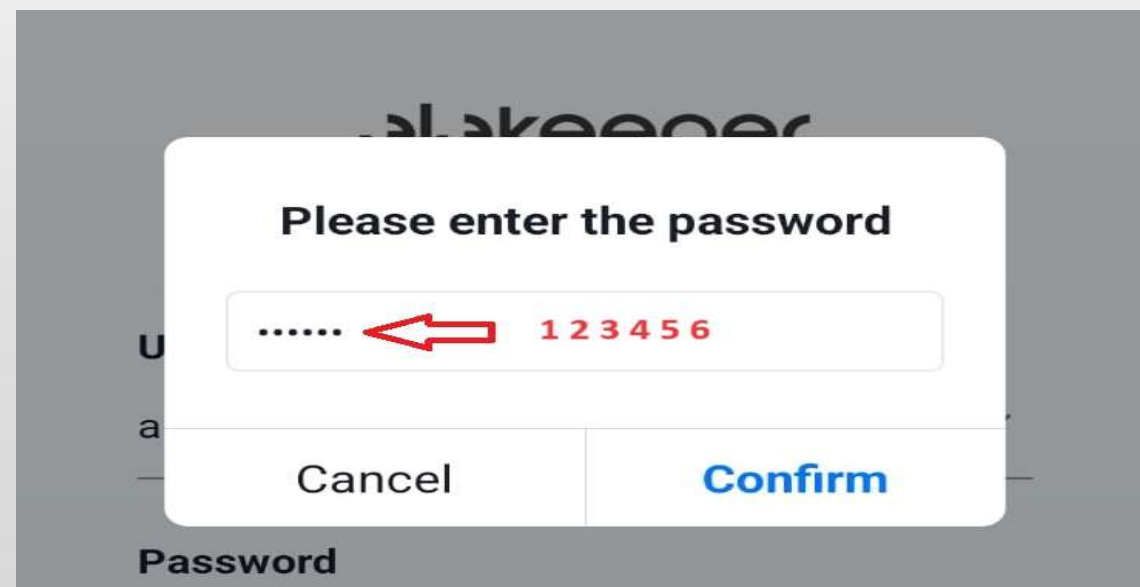
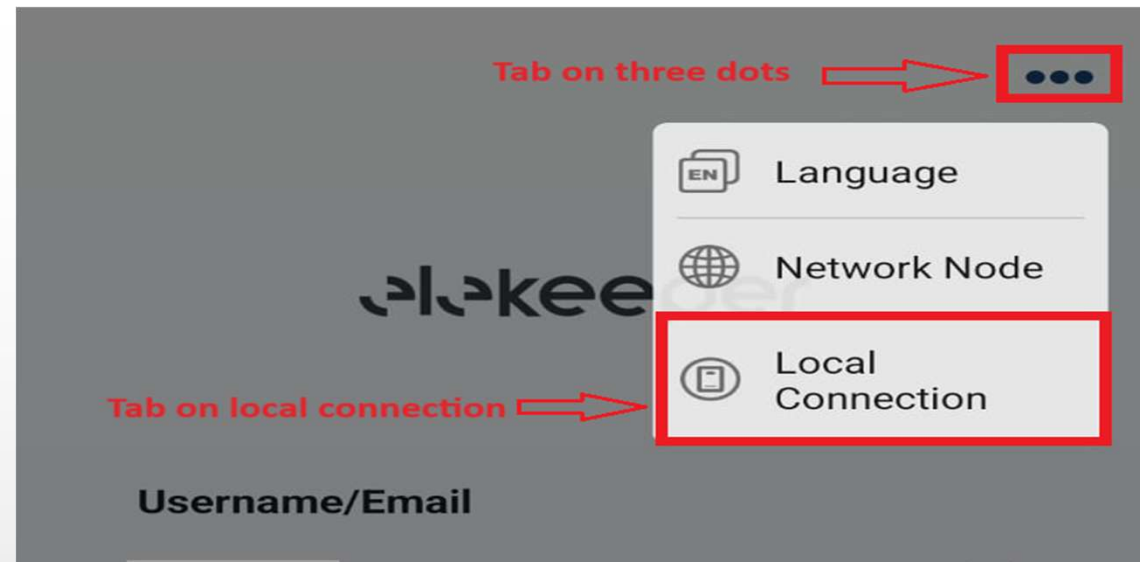
However if you are a longtime installer of SAJ products don't delete previous app as some older inverters may connect better to these older versions

Step 1

If you don't have an account for **Elekeeper** you will need to create one

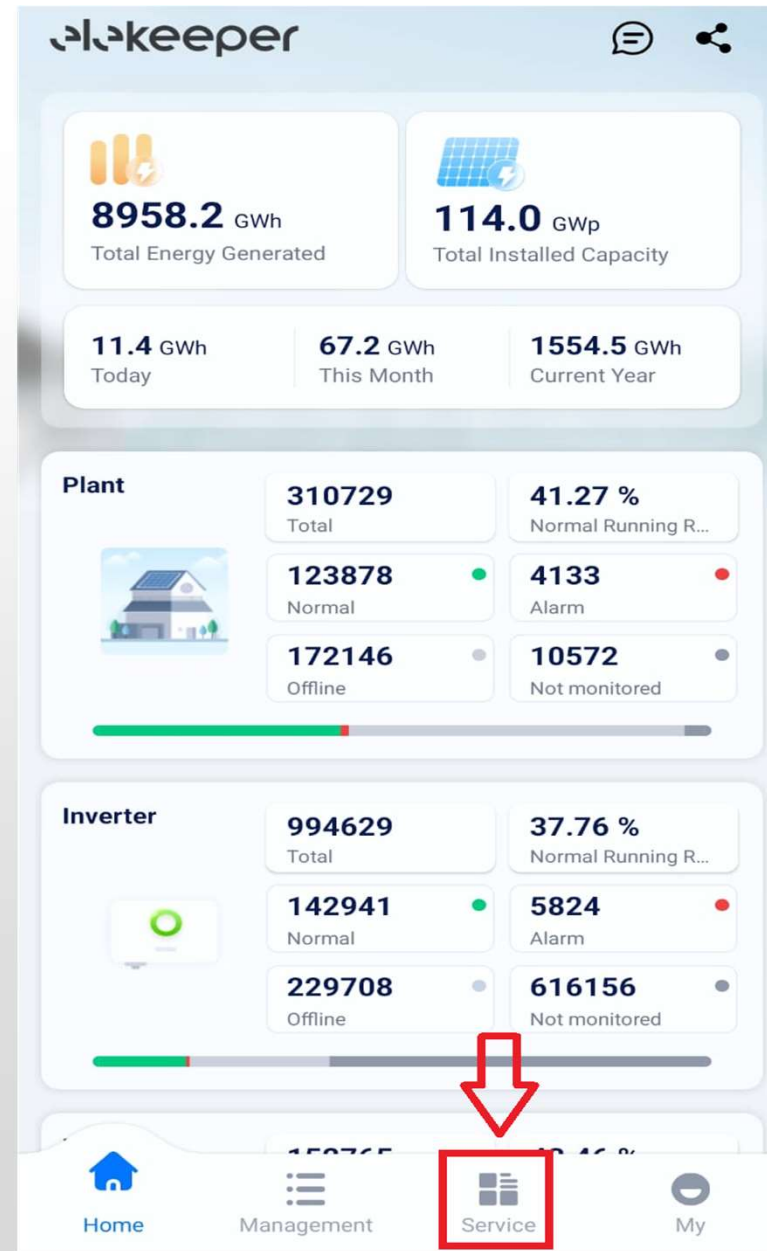
Tap on three dots on top right and then on local connection – local connection will connect you directly to the inverter

Enter the password “**1 2 3 4 5 6**” & confirm



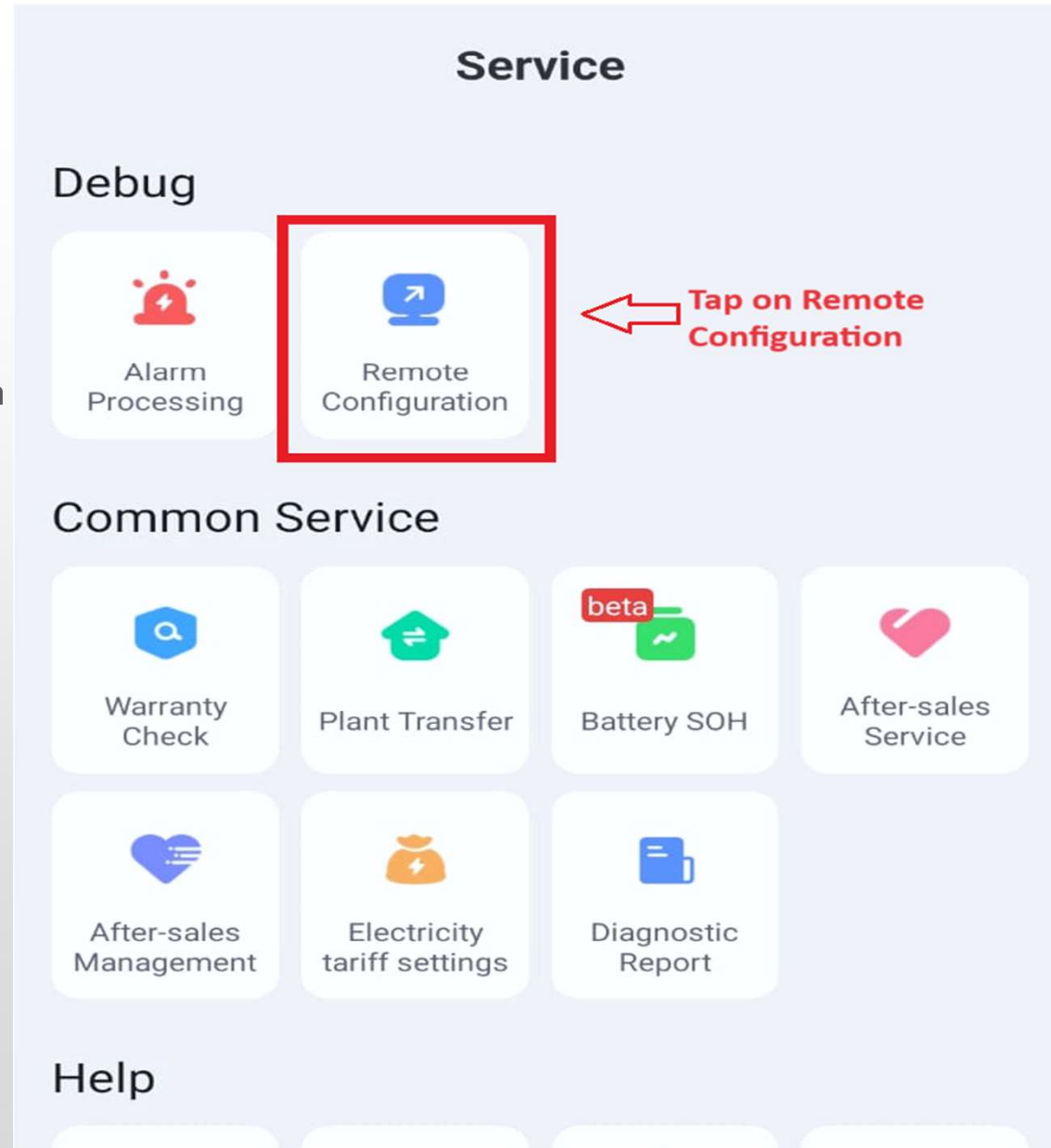
Step 2

If you have an account, login to **Elekeeper** App, and tap on “Service” from the bottom menu



Step 3

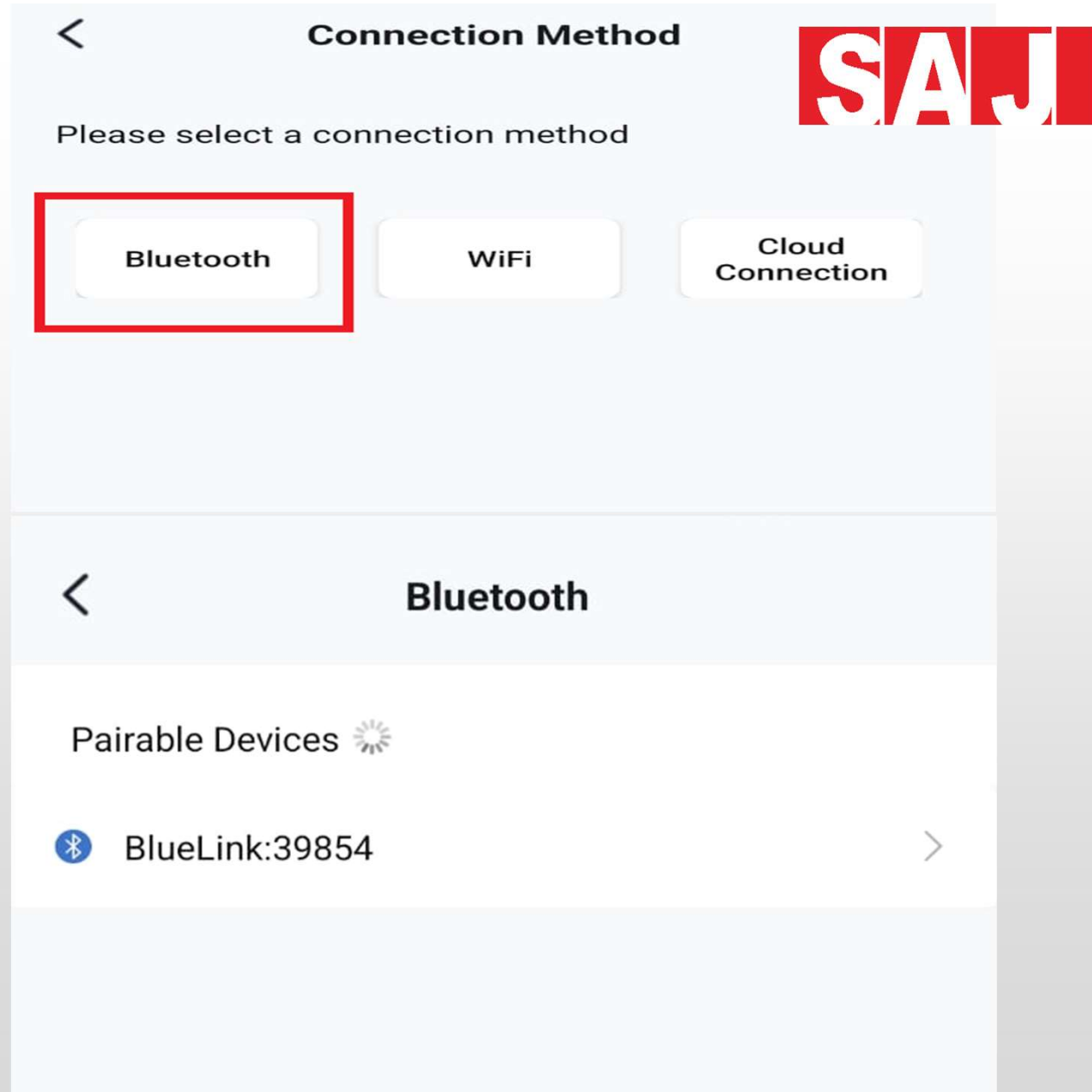
Tap on remote Configuration



Step 4

Local connect to an SAJ inverter via Bluetooth:

1. Tap on "Bluetooth" and enable it.
2. Then, tap on "**BlueLink**" listed device underneath.
3. If more than one pairable device shows, the 5 digit number identifies the product if you are unsure.
4. These are the last 5 digits of the product serial number as below



Step 5

Tap on "Communication Module"



SAA - ATTENTION only – Slide not part of PPT

- Observation questions are interactive via Kahoot platform and cell phone app.

<https://youtu.be/7XzfWHdDS9Q>

- We run Kahoot alongside this ppt via a monthly subscription applied during the training months
- All questions are multi choice via a phone app
- Prizes are awarded to the winning installer or winning team in team events.



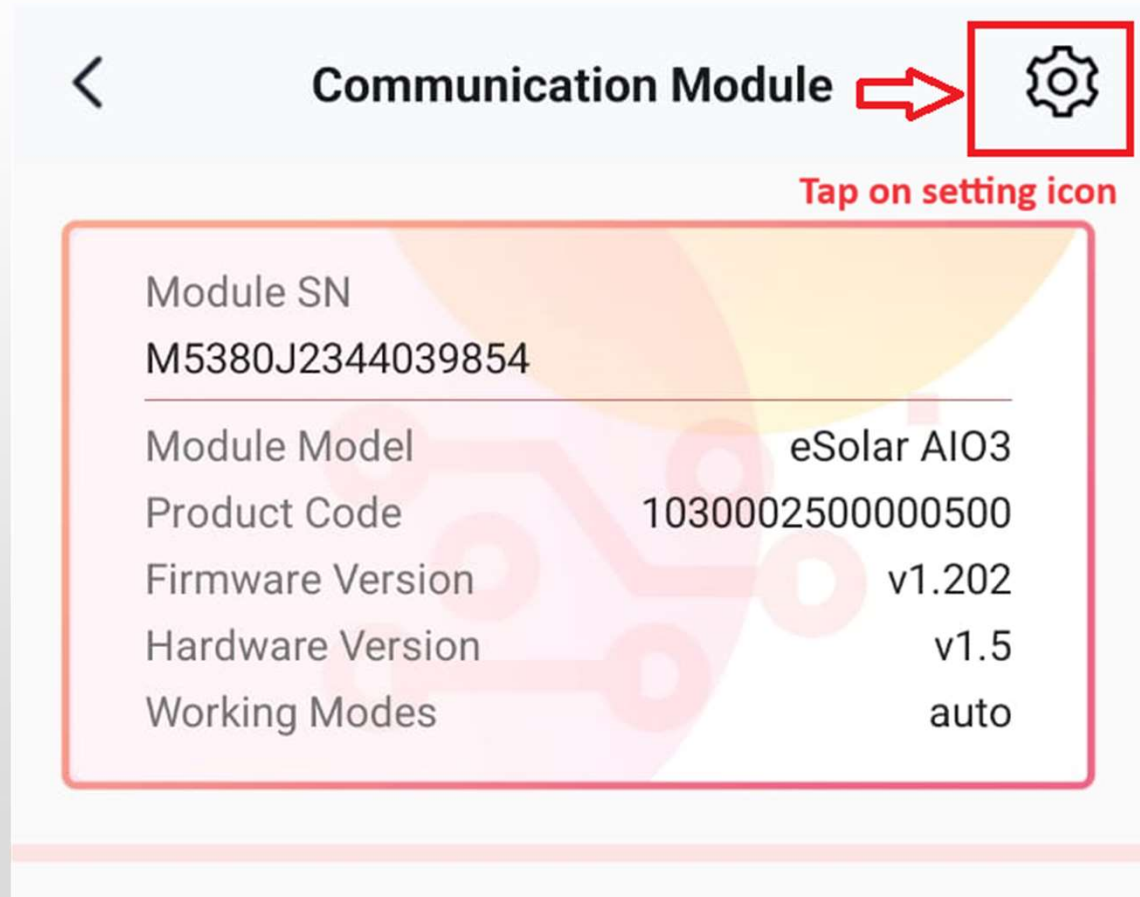
Observation Questions



- Q) Step 1 of commissioning and bringing the system on line is
(a) Ignore inverter manual (b) download EleKeeper (c) create an account (d) leave it to your mate
- Q) The initial connection for inverter settings is conducted via
(a) local wifi (b) local blue tooth (c) satellite (d) telepathy
- Q) Once local blue tooth connection has been established, an option of devices for connection is offered
(a) false (b) true (c) unsure (d) not applicable
- Q) If more than one blue link device is available for connection, connected device is determined by
(a) strongest signal (b) nearest device to phone (c) last 4 digits of device (d) pure luck
- Q) Customer doesn't know name of wifi or password, but it can be found on
(a) fridge door (b) customers phone (c) router unit (d) Inverter unit
- Q) At step 3 configuration begins with a quick tap on
(a) app menu (b) service key (c) remote config (d) apprentice hard hat

Step 6

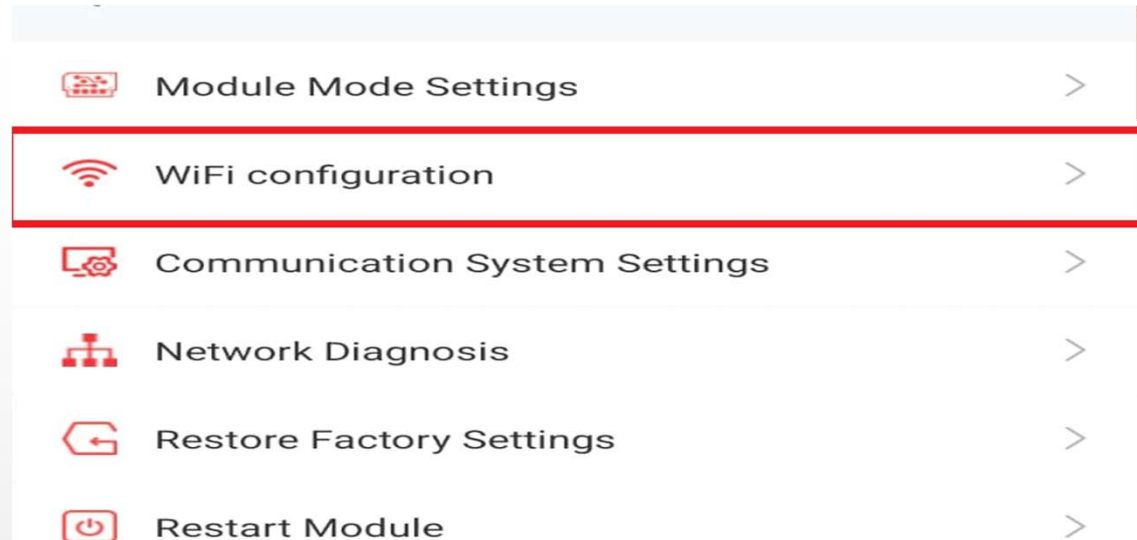
Tap on "Setting Icon" on top right



Step 7

Tap on Wi-Fi Configuration, and enter the Wi-Fi network details(Network Name and Password) and save it.

Please note the network should not be **5GHz**



Module Mode Settings >

WiFi configuration >



Communication System Settings >

Network Diagnosis >

Restore Factory Settings >

Restart Module >

< **WiFi configuration**

SSID
Password

Network Name **Enter Network Name** ✓

Router Password **Enter Network Password** ✕

Please note, network should be 2.4GHz

SAVE

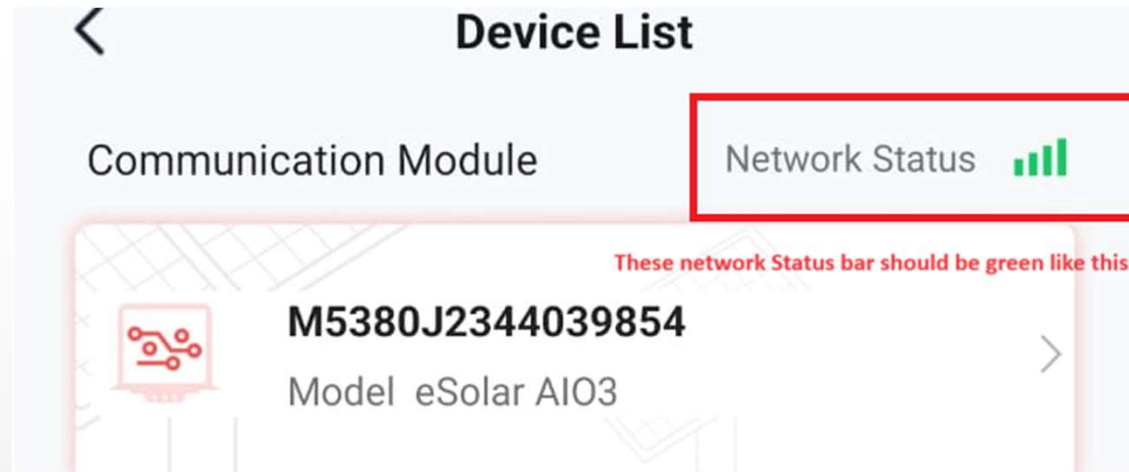
↑
Tap on Save, it should say configured successfully

Step 8

To verify that the Wi-Fi is connected to the inverter:

1) Ensure that the Network Status shows green bars.

2) Check that the Wi-Fi status on the communication module reads "Up"

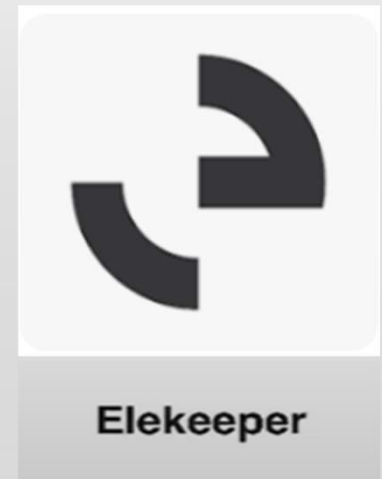


Observation Questions



- Q) step 6 - no further progress can be made until “module settings” option is selected
(a) true (b) false (c) only sometimes
- Q) Once wifi is established, the wifi details do not need to be saved within the dongle
(a) true (b) false (c) only sometimes
- Q) The network diagnosis function will confirm
(a) network up (b) network down (c) the winning lotto numbers
- Q) The green network status graph confirms
(a) signal strength (b) wifi connectivity (c) both
- Q) 1 phase inverters and 3 phase inverter dongles connect differently to customers wifi
(a) true (b) false (c) same but different
- Q) WIFI connectivity confirmation (including metering data) is via
(a) network status signal (b) com module menu (c) Gateway (d) “UP” displayed in the app

Installation diagnostics & one click troubleshooting SAJ Inverters



Online connectivity – always !



The level of service offered to on line connected Inverters is many levels above inverters not internet connected.

Site visits can be avoided by remote access to the inverter settings

- metering configurations,
- CT arrow direction,
- CT cross phasing
- export control percentage
- In depth performance analysis
- System alerts

<https://youtu.be/877EXTL-bB8?feature=shared>

SAJ

20th Anniversary



Installation Diagnosis

One-click troubleshooting
effortless installation from the get-go



Always better to operate in a pro-active manner rather than re-active

A quick reference check to confirm correct product →

Cross check of completed testing for comms faults →

Info to assist SAJ when contact required →

SAJ system check list						
Inverter model	Tick	Qty	KW rating	Yes	No	
R5						
R6						
H2						
HS2						
C6						
1 or 3 phase						
DC&AC voltage						
smart meter type installed				Yes		
Meter only						
Meter kit						
SEC-C kit						
Energy Storage type				Yes	no	
AS1						
B2						
Comms fault				Yes	no	length
RS485 run (meter to inverter) > 15mts + 120ohm resistor						
Is meter programming correct						
RS485 cable continuity						
check meter wiring - provide images of SEC & chint Mtr						
CT direction - arrow to load						
Wifi connection made						
local connection made						
strong wifi signal at inverter position						
Solar Company & address						
Installer						
Inverter serial number						
Address of installation						
contact details						
Fault in a few words						



SAJ Installers community






Gary Jubb

Admin · 2 April · 🌐

A new SAJ installers community FB group where news, product updates, tech docs and did you knows - will be uploaded, a place where installers can communicate with each other offering hints, tips & tricks to get the best from the best (value for money product) with currently the best product & tech support support available in Australia.

Files

FILE NAME

-  SAJ_H2_B2_Solution_V0.0.pdf
-  Instruction for BU2 Battery and The Parallel Battery Tower.pdf
-  e-Solar portal account introduction.pdf



SAJ 

A global manufacturer and innovator of smart energy storage, providing residential & commercial energy solutions.

Renewable Energy Semiconductor Manufacturing · Guangzhou, Guangdong · 22K followers · 1K-5K employees

<https://www.saj-electric.com.au/>



Products



Solutions



SAJ Home Energy

The times they are a changing

- Dynamic control – applicable to most states
- SAJ are compatible with options – either direct with SAJ inverter or 3rd part via partners
- VPP – A growing sector with no issues for SAJ
- Energy trading – growing very quickly no issue for SAJ
- NSW being an exception to the dynamic control / backstop solutions adopted by other large states
- Requires a new product or a re-write of existing warranties to meet requirements of the rebate scheme – introducing the B2S 5.0kWh

- | | |
|--|--|
| <input type="checkbox"/> 1C charge & discharge rate | <input type="checkbox"/> IP65 for indoor & outdoor installation |
| <input type="checkbox"/> ≥3.65MWh per kWh of usable battery capacity | <input type="checkbox"/> Remote firmware upgrade |
| <input type="checkbox"/> Modular design scalable up to 200kWh | <input type="checkbox"/> Operation temperature range of -10 ~ 50°C |



SAJ



evergen



amber



DISCOVER
ENERGY



3 phase relay
available now



Observation Questions



- Q) The System check list prior to an inbound tech call is a quick reference check for
(a) Installer (b) customer (c) tech team (d) a & c
- Q) For successful connection the GHz selection should be
(a) 5GHz (b) 4.5GHz (c) 2.5GHz (d) ignored
- Q) At step 2 of SAJ wifi connect, from the bottom menu to progress, we select
(a) management (b) service (c) menu (d) time for home
- Q) The SAJ face book installers community group allows for
(a) installer assistance (b) SAJ updates (c) file access (d) all listed
- Q) The retailers move to inverter dynamic control requires all installers to upskill in
(a) data comms (b) mod bus (c) smart meters (d) all mentioned a,b,& c.
- Q) As an installer I found this training
(a) of good use (b) of little use (c) something in between A&B

Winds of change



Winds of change are sweeping through the industries accreditation process.



Who We Are

Solar Accreditation Australia (SAA) has been established as a not-for-profit organisation to advance the effective accreditation of designers and installers in accordance with the [SRES Scheme](#), which covers both on and off grid solar, wind and hydro systems.

As established by [Master Electricians Australia](#) and the [Smart Energy Council](#), SAA is an independent and standalone organisation, with an independent chair and governance structure.

The [Clean Energy Regulator](#) appointed SAA the installer and designer accreditation scheme operator (ASO) in February 2024, with a three-month transition period.

Our Founders





THANK YOU

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