

Connect Reduxi to AXIbox 11K

Connect the AXIbox 11K charger to Reduxi via Wi-Fi and the OCPP 1.6 JSON and the Evcharge app. Reduxi flexibility allows cost reductions of up to 30%.

🔌 AXIbox 11K · Reduxi Controller

🌐 Wi-Fi · OCPP 1.6 JSON 📱 Evcharge app

🔌 Port 80 (WS)

AXITEC
high quality german solar brand



AXIbox 11K wallbox

IN THIS ARTICLE

1. Prepare

- Technical documentation
- Evcharge app
- Required equipment

2. Configure the AXIbox 11K in the Evcharge app

- Log in or register
- Add group and charger
- Connect to Wi-Fi
- Set the OCPP server

3. Log in to the Reduxi web interface

- Via the Reduxi app
- Via a web browser

4. Add the charger to Reduxi

- Basic settings
- Communication settings
- Test communication

5. Check the readings

6. Summary

7. Common issues

8. Related articles

1 Prepare

1.1 Technical documentation

- [AXIbox 11K product page](#) – AXITEC product page of the charger
- [AXIbox 11K datasheet \(PDF\)](#) – Technical data of the charger
- [Installer portal login](#) – Login page named in the original article

1.2 Evcharge app

You configure the charger with the Evcharge app. Install it from the store of your phone:

- Google Play Store: <https://play.google.com/store/apps/details?id=cn.enplus.chargein>
- Apple App Store: <https://apps.apple.com/gb/app/evcharge/id1533765408>



Evcharge app

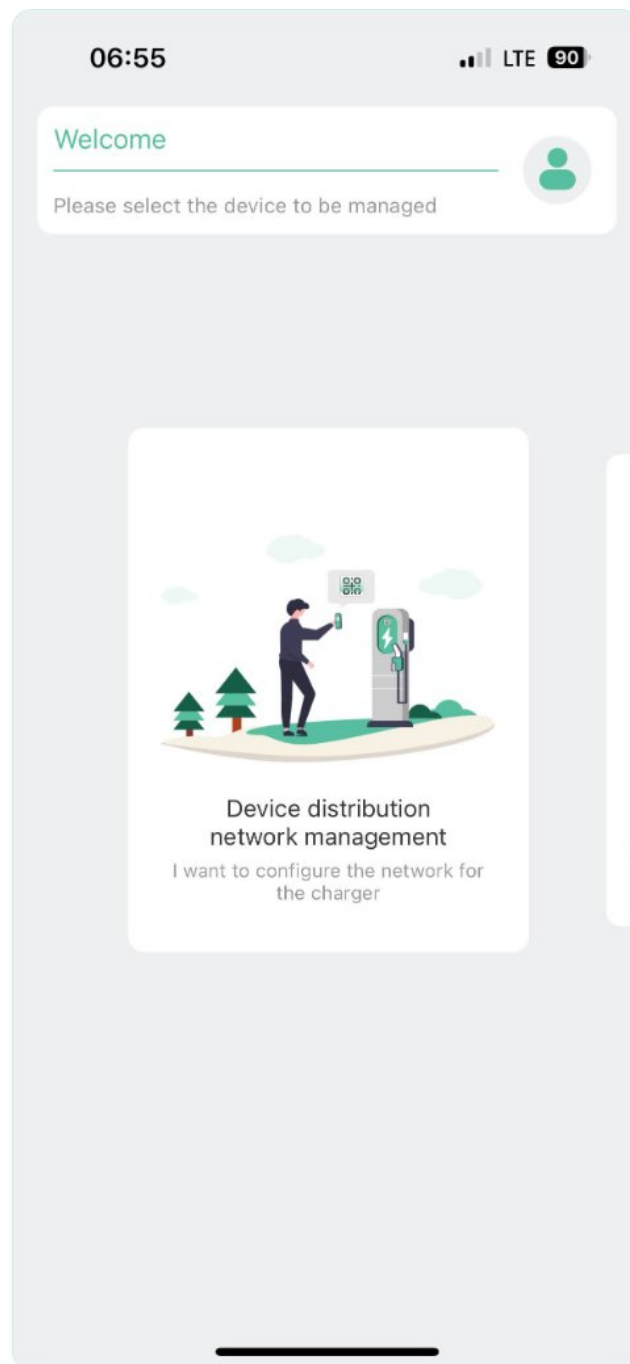
| 1.3 Required equipment

- ☐ AXIbox 11K charger
- ☐ Smartphone with the Evcharge app (Bluetooth is used to find the charger)
- ☐ Wi-Fi network for the charger
- ☐ Reduxi Controller in the same network
- ☐ Laptop or tablet with internet access to configure the device in Reduxi

2 Configure the AXIbox 11K in the Evcharge app

| 2.1 Log in or register

Open the app and log in or register a new account. The home page (Welcome page) is displayed.



Welcome page of the Evcharge app

2.2 Add group and charger

Once you are logged in, configure the EV charger in the Evcharge app.

1

Add a new group

Add a new group in the app.

2

Add a new charger

Add a new charger.

3

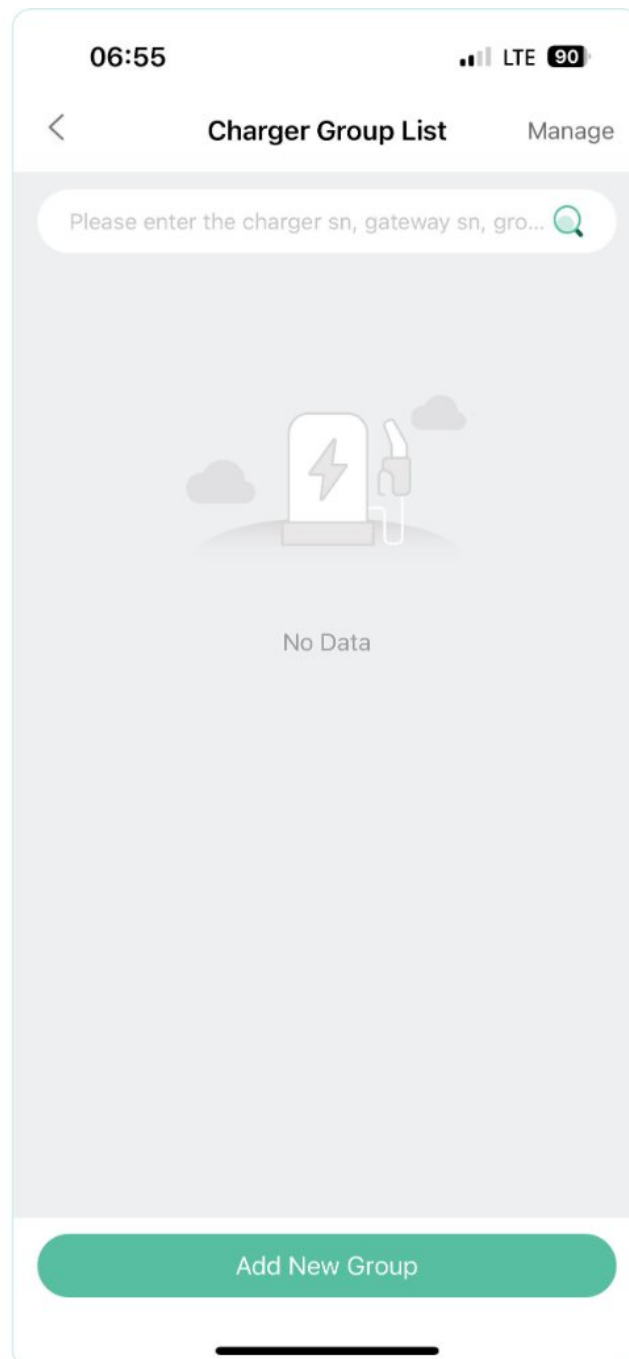
Scan with Bluetooth

Use Bluetooth scanning and choose the device.

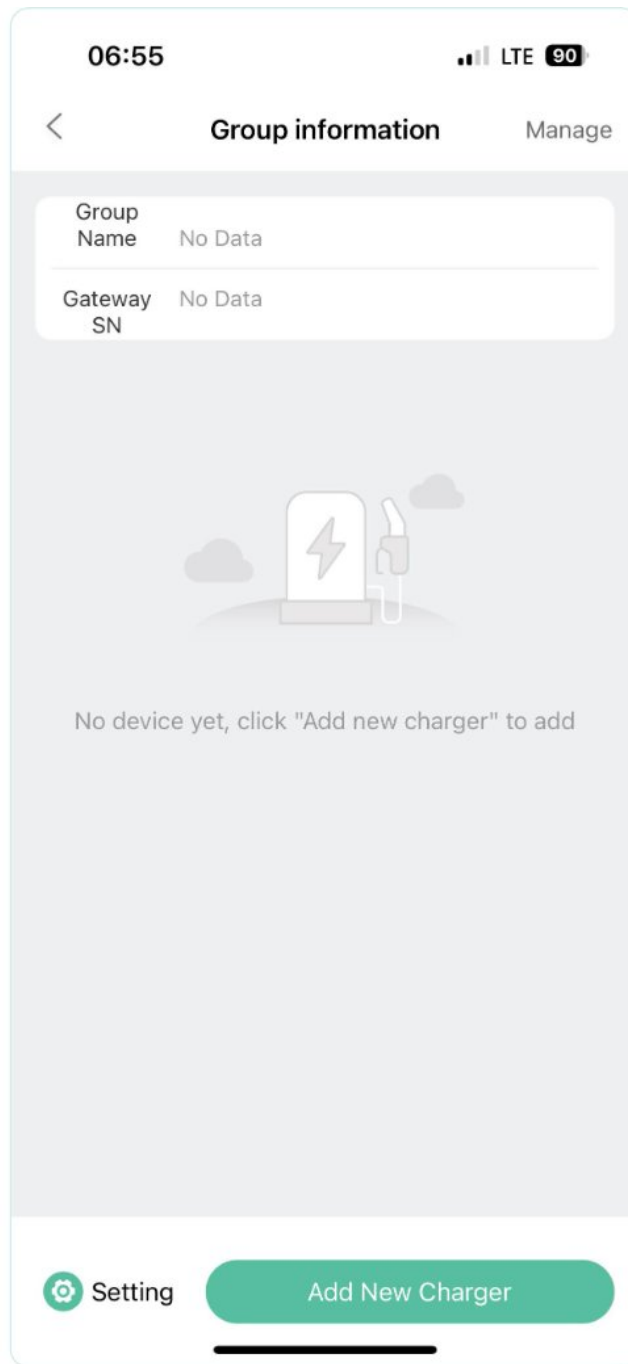
4

Add the device

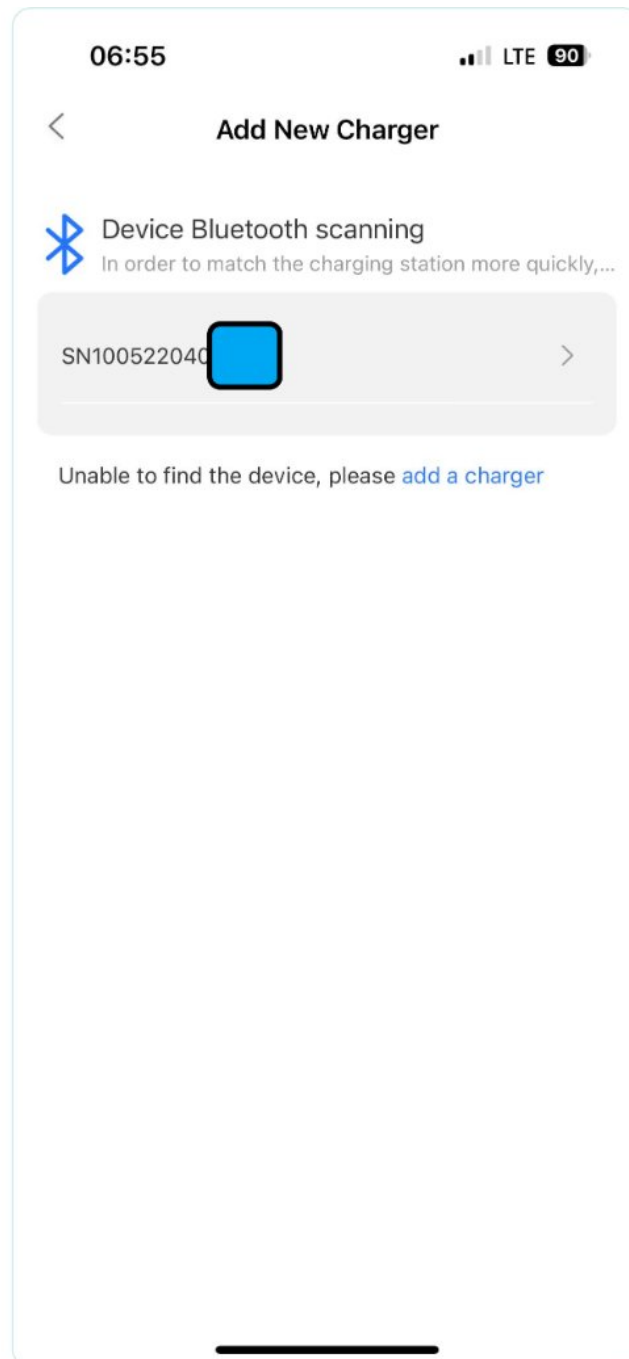
Add the device.



Add new group



Add new charger



Bluetooth scanning: choose the device

06:55

LTE

90

<

Manual entry

Charger SN:

SN10052204

MAC:

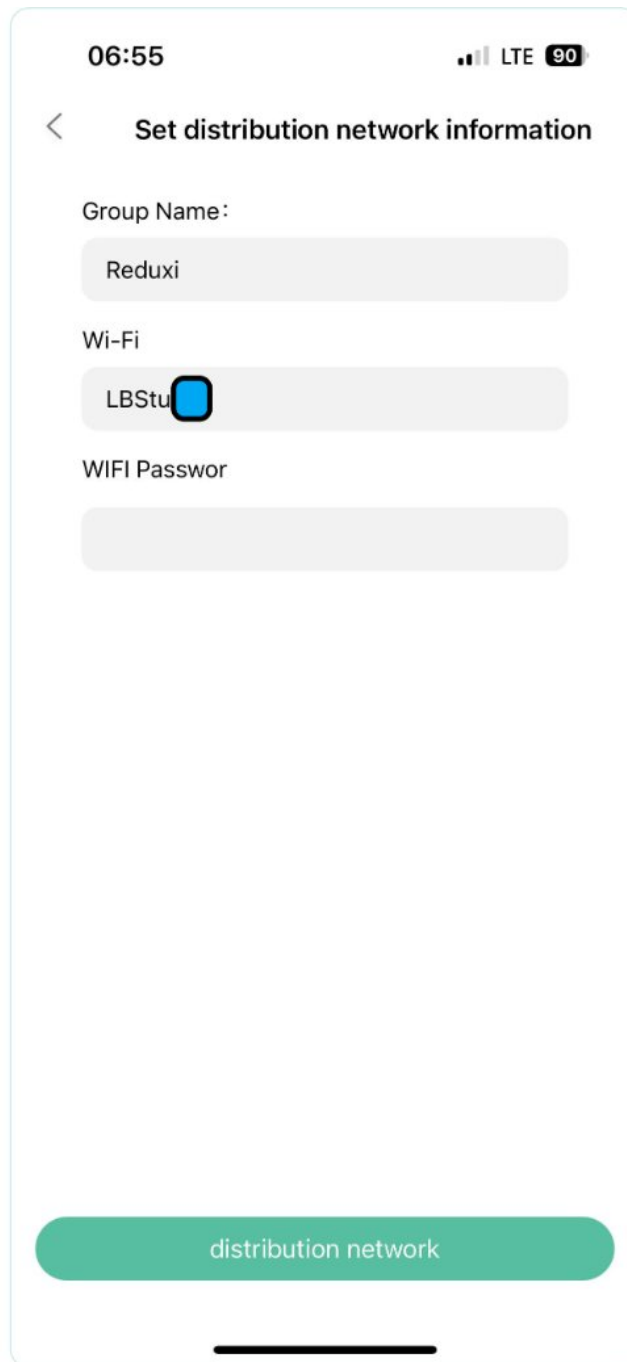
78e36df

Add

Add the device

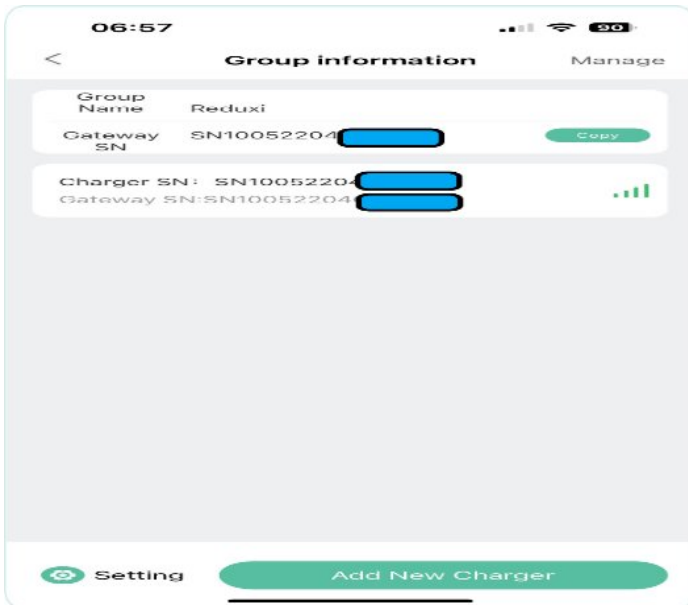
2.3 Connect to Wi-Fi

Connect the charger to your Wi-Fi network.

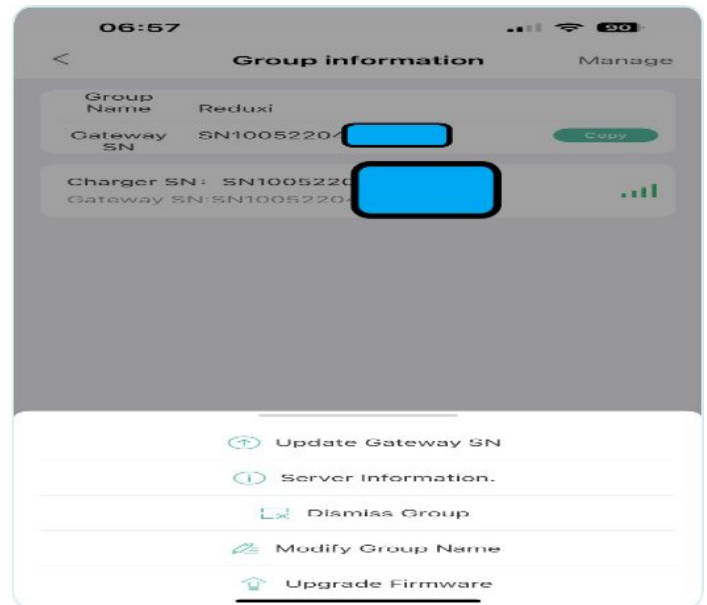


Connect to Wi-Fi

Once the charger is connected to Wi-Fi, tap the **Settings** button at the bottom left. Then tap the **server information** button.



The **Settings** button



The **server information** button

2.4 Set the OCPP server

Enter the server information as shown below. You get the OCPP server URL from the Reduxi Controller (see [Point 4](#), section 4.2).



Example URL

`ws://192.168.1.78/ocpp/1.6/json/` . Use the URL of your own controller.

PARAMETER	VALUE
Protocol type	WS
IP/Domain	192.168.1.78 (example: the IP address of your Reduxi Controller)
Port	80 (for the WS protocol)
Path	/ocpp/1.6/json/

06:42

97

<

Server Information.

Account Server

Customize >

IP/Domain

192.168.1.78

Port

80

Path

/ocpp/1.6/json

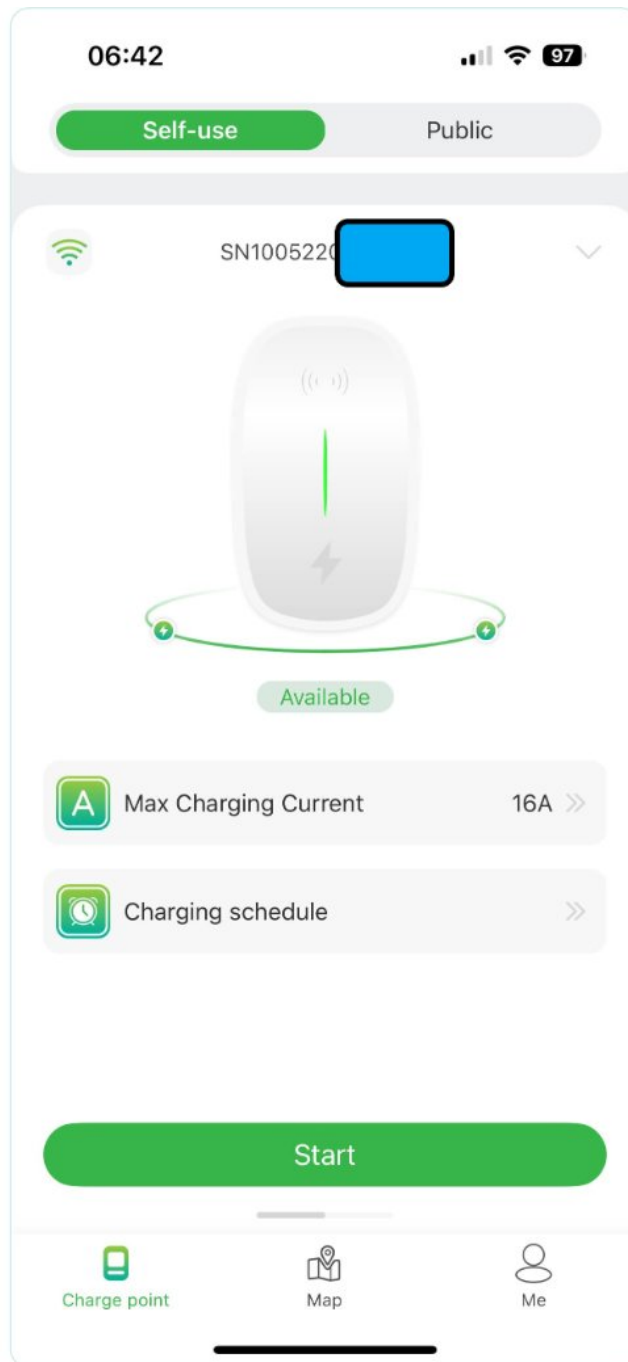
Protocol type

WS (No encryption mode) >

Confirm

Server information

The last step is the home page of the connected EV charger.



Home page of the connected charger

3 Log in to the Reduxi web interface

You can open the Reduxi web interface in two ways:



Reduxi app
Via tunnel connection · works from anywhere

REMOTE



Web browser
In the local network · via IP address or `reduxi.local`

3.1 Via the Reduxi app

1 Open the app and log in

Launch the Reduxi app on your smartphone or tablet and log in with your credentials.

2 Open Reduxi devices

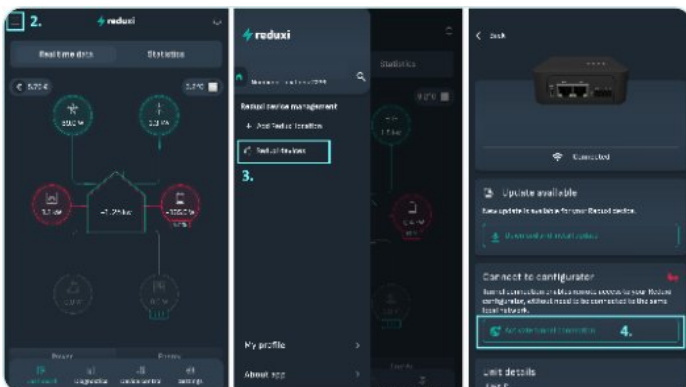
Tap the menu icon (three lines, top left) and select **Reduxi devices**.

3 Activate the tunnel connection

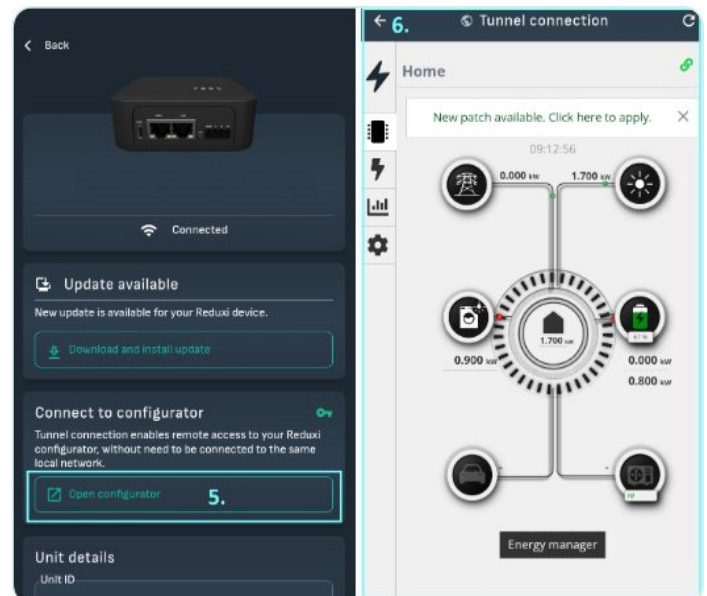
Switch on the tunnel connection and wait a moment until it is active.

4 Open the configurator

Tap **Open configurator**. The Reduxi web interface opens.



Activate the tunnel connection (step 3)



Open configurator (step 4)

3.2 Via a web browser

1 Open the login page

On a device in the same network, open a web browser and enter the controller's IP address or <http://reduxi.local>. You can find the controller's IP address in your router's device list or in the Reduxi app under **Reduxi devices**.

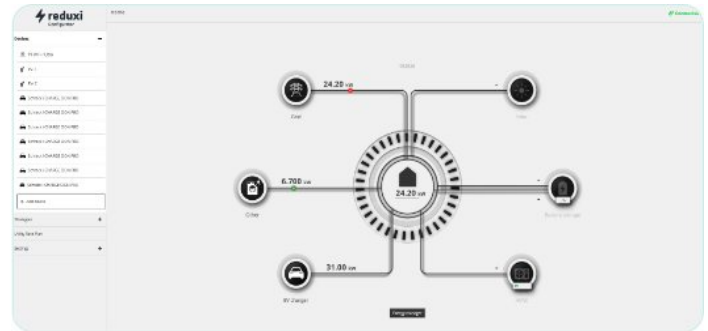
2

Log in

Username: **admin** · Password: **admin** (factory default)



Reduxi Controller login screen



Controller web interface after login

4

Add the charger to Reduxi

The charger communicates with the Reduxi Controller via OCPP.

4.1 Basic settings

Log in locally to the [Reduxi Configurator](#) (see [Point 3](#)) and click the **Add device** button.

reduxi[⚡]

CONFIGURATOR

Devices



Strategies



+ Add device

+ Add strategy

Settings

Profile

*The **Add device** button*

In the first step (basic settings), select:

- Device type: **EV charger**
- Type: **OCPP 1.6 - JSON**
- Name: a name of your choice

1 Basic settings 2 Communication channel 3 Advanced settings

Basic settings

Device type *

Type *

Name *

Back Next

Basic settings: device type, type and name

4.2 Communication settings

The second step sets the communication channel for OCPP. First enter the **Device identifier**. This is the serial number (SN) of the AXIbox 11K. You find it in the Evchargeo app.

With OCPP JSON 1.6, the server OCPP URL is generated by the Reduxi Controller. You can read it directly in the communication channel. Enter this URL in the Evchargeo app (see [Point 2](#), section 2.4).



Example URL

`ws://192.168.1.78/ocpp/1.6/json/`

06:41



192.168.1.78

AC



Energy counter

Default



Allocate power to EVSE when EV is not connected to EVSE

Default



Test communication



Unable to communicate with device.

Number of devices found on OCPP - JSON 1.6: 2

Device identifier: TACW11402

Device identifier: SN10052204



Close

Allow new charging session



4.3 Test communication

Click **Test communication** at the lower right, below the communication channel fields. It checks that OCPP communication is established and saves nothing. If the test succeeds, click **Done**: only **Done** creates the device.

Communication channel and device configuration

Device identifier *

my_station_ID1

Connector *

1

Charger type *

AC

Energy counter

Default

Allocate power to EVSE when EV is not connected to EVSE

Default

Per phase max. current *

Manual override

Per phase max. current manual override

32

In effect when manual override is selected

Forward communication to backend OCPP server

Allow new charging session

Always

Controller OCPP JSON 1.6 URL

ws://192.168.1.200/ocpp/1.6/json

Back

Test communication

Next

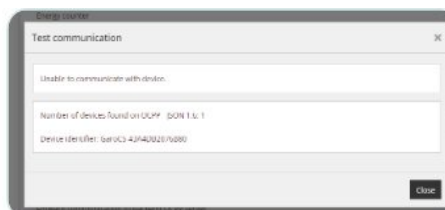
The **Test communication** button

The test returns one of three results:

- Case 1: Communication works properly.
- Case 2: Unable to communicate with device 1. The ID of the device is not set or is different.
- Case 3: No device with OCPP 1.6 communication is found.



Case 1: communication works properly



Case 2: device ID not set or different



Case 3: no OCPP 1.6 device found

5 Check the readings

5.1 Last measurements

Check the readings from the device under **Device – Last measurement** in the Reduxi Configurator.

Control type		
Auto	Manual	Off Boost
02.10.2024 15:47:17		

Current		
Current L1	0.00 A	02.10.2024 15:47:17
Current L2	0.00 A	02.10.2024 15:47:17
Current L3	0.00 A	02.10.2024 15:47:17
Max. current per phase	32.00 A	02.10.2024 15:47:17
Per phase current setpoint	6.00 A	02.10.2024 15:47:17

Power		
Import - active power	0.0 kW	02.10.2024 15:47:17
Max. active power	22.1 kW	02.10.2024 15:47:17
Min. active power	0.0 kW	02.10.2024 15:47:17

Energy		
Import active energy	5,104.5 kWh	02.10.2024 15:47:17

Other		
Communication error	OFF	02.10.2024 15:47:16
Control type	AUTO	02.10.2024 15:47:17
Error	OFF	02.10.2024 15:47:17
State name	CABLE_UNPLUGGED...	02.10.2024 15:47:17

Readings from the device

Once the device is added in the Configurator, you can monitor it in the [Reduxi cloud application](#).

5.2 Use the charger in a strategy

To reduce energy costs with dynamic prices and dynamic tariffs, define a strategy as described in [Strategies for Reduxi controller](#).

✓ Summary

Preparation (Point 1): Install the Evcharge app and have the charger, a Wi-Fi network and the Reduxi Controller ready.

AXIbox 11K (Point 2): In the Evcharge app: log in, add the group and charger, connect Wi-Fi, enter the OCPP server of the controller.

Add to Reduxi (Points 3–4): Log in to the Reduxi web interface. Add an EV charger of type OCPP 1.6 – JSON, enter the device identifier and run Test communication.

Go live (Point 5): Check Last measurement and define a strategy.

→ Common issues

ISSUE	SOLUTION
Test communication: device ID not set or different (Case 2)	Enter the serial number (SN) of the AXIbox 11K from the Evcharge app as Device identifier.
Test communication: no OCPP 1.6 device found (Case 3)	Check the server information in the Evcharge app: protocol WS, IP of the Reduxi Controller, port 80, path /ocpp/1.6/json/.
Open configurator does not open or stays empty	The tunnel is not active yet. Wait about 30 seconds and check that the controller is online.
Login with <code>admin</code> is rejected	The password was changed during installation. Ask the installer. The Reduxi account password does not work here.
<code>reduxi.local</code> does not load	Your device is not in the same network as the controller. Use the IP address or the tunnel connection.
Communication test fails, device shows offline	Check reachability, IP address / port / unit ID, and that the protocol is enabled on the device.

→ Related articles

Matching guides from the Reduxi knowledge base:



EV charger via OCPP 1.6J

General guide for connecting EV chargers with OCPP 1.6J.



Device setup guides

All step-by-step guides for connecting devices to the Reduxi Controller



List of supported devices

All devices that work with the Reduxi Controller



Strategies for the Reduxi Controller

Energy manager and other strategies explained