

How to connect Voltie EV charger with Reduxi controller

Integrate Voltie chargers with Reduxi via Wi-Fi and the Voltie platform using the OCPP protocol. Maximal flexibility and possible cost reductions of up to 30%.

🔑 Voltie EV charger · Reduxi Controller

🌐 OCPP JSON 1.6 via Wi-Fi

🔧 Device type EV charger · Type Voltie



Voltie EV charger

Text description of this image

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1 Technical documentation

Manufacturer documents and further information:

- [Voltie Quick start](#) – Installation files, videos for installing the charger, app registration, Wi-Fi connection and installer mode.
- [Voltie technical data sheet](#) – Technical data of the charger.
- [Open Charge Alliance](#) – OCPP specification.

2 Required equipment

- ☐ Voltie EV charger, installed and commissioned
- ☐ Voltie app on a smartphone: registration and Wi-Fi connection of the charger
- ☐ Wi-Fi network with a stable internet connection
- ☐ Reduxi Controller in the same network, with a static IP address
- ☐ Laptop or tablet with internet access to configure the device in Reduxi

3 Set up the Voltie charger

3.1 Voltie app and Wi-Fi connection

Register the charger in the Voltie app and connect it to your Wi-Fi network. The Voltie platform (the app) is used for the setup. The steps are shown in the Voltie videos on the [Quick start page](#).



Router replacement

If you replace your router, repeat the Wi-Fi setup in the Voltie app. Voltie states that this takes about 2–3 minutes.

3.2 Installation

Install the charger as described on the [Voltie Quick start page](#). Voltie lists the OCPP protocol as one of the integration options of the charger.

4 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`



4.1 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

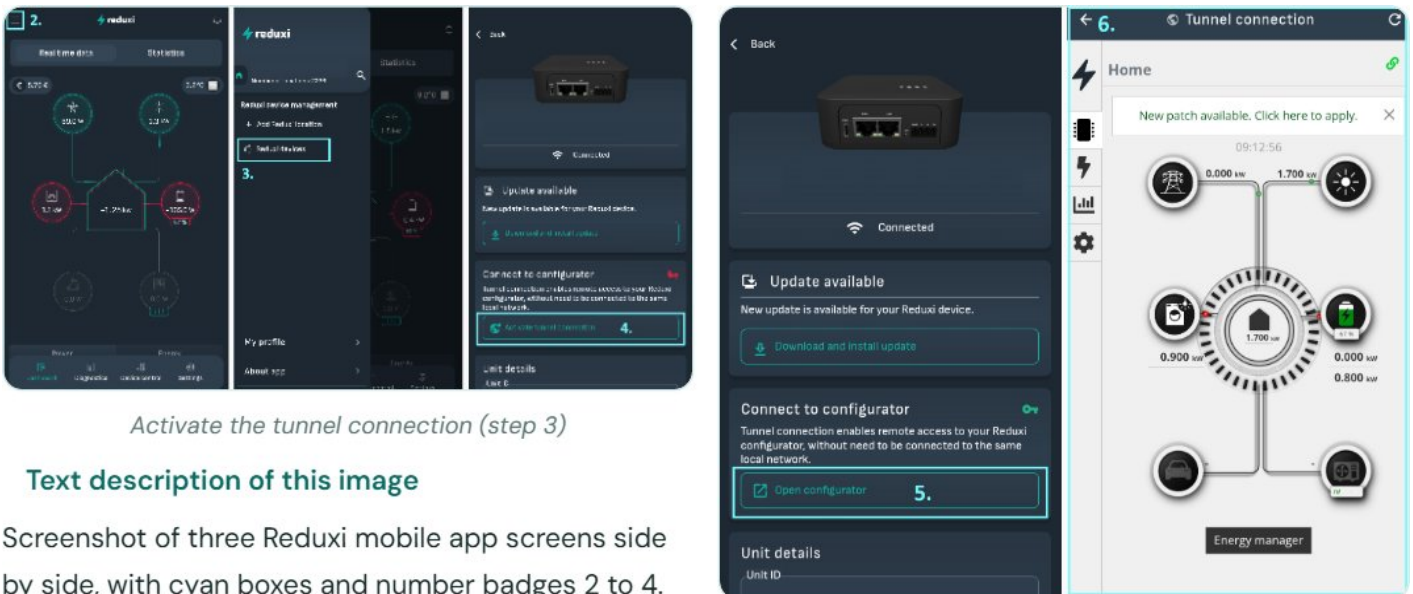
Activate the tunnel connection

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)

Text description of this image

Screenshot of three Reduxi mobile app screens side by side, with cyan boxes and number badges 2 to 4. Left screen (dashboard, dark theme): menu icon at top left marked with a box and badge 2; 'reduxi' logo; tabs 'Real time data' (active) and 'Statistics'; price 5.79

Open configurator (step 4)

Text description of this image

4.2 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

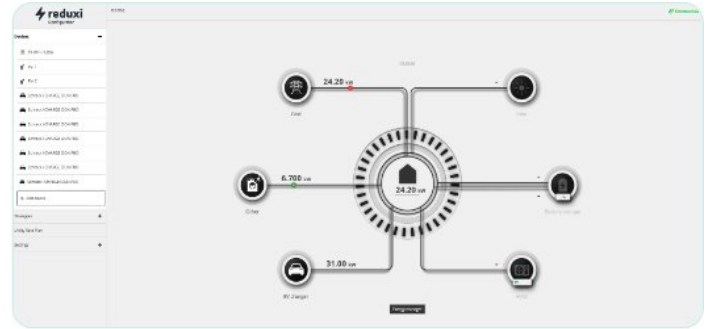
Log in

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



Reduxi Controller login screen

Text description of this image



Controller web interface after login

2. Text description of this image

Screenshot of the Reduxi Configurator web interface

5 Add the Voltie charger to Reduxi

Use these steps to add a new Voltie charger or to edit an existing one.

5.1 Basic settings

Log in locally to the [Reduxi Configurator](#) (see [Point 4](#)) and add a new device by clicking the **Add device** button.



Devices



+ Add device

Strategies



Utility Rate Plan

Settings



The Add device button

Text description of this image

In the first step, define the basic settings:

- Device type: **EV charger**
- Type: **Voltie**
- Name: a name of your choice

1

Basic settings

2

Communication channel

Basic settings

Device type *

EV charger

Type *

OCPP 1.6 - JSON

Name *

Voltie EV Charger

Back

Next

Basic settings: device type, type and name

Text description of this image

Press **Next**.

5.2 Communication settings

The second step sets the communication channel for OCPP. Define the **Device identifier** first. You can choose it freely.

For the OCPP JSON 1.6 protocol, a URL is needed. The Reduxi Controller generates it automatically. Add `/Device ID` at the end of this URL.

PARAMETER	VALUE
Device identifier	A name of your choice, for example <code>my_station_ID1</code>
URL	The URL generated by the Reduxi Controller + <code>/Device ID</code>
Example	<code>ws://192.168.1.200/ocpp/1.6/json/my_station_ID1</code>

1 Basic settings 2 Communication channel 3 Advanced settings

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

Device identifier and OCPP JSON URL

Text description of this image



Important

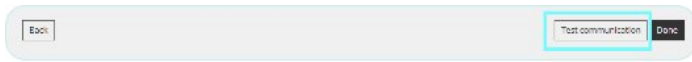
The charger connects to the IP address of the Reduxi Controller. Use a static IP address for the Controller. If the address changes, the OCPP connection is lost.

5.3 Enter the URL on the charger

Enter the complete URL, including the Device ID, as the OCPP server address of the Voltie charger. The Device ID must be identical to the Device identifier in Reduxi.

5.4 Test communication

Click **Test communication** at the bottom of the wizard. It reads the Voltie charger once and saves nothing. If the test succeeds, click **Done**: only **Done** creates the device.



The **Test communication** button

Text description of this image

Screenshot of the bottom button bar of a Reduxi Configurator page. Left: button 'Back'. Right: button 'Test communication' (marked with a cyan box) and dark button 'Done'.



The **Done** button

2. Text description of this image

Communication channel and device configuration

6 Check the readings

6.1 Last measurements

After communication is established, check the values under **Devices** in the Reduxi Configurator.

6.2 Enable control by Reduxi

For control by Reduxi, set the **control type** of the device to **AUTO** under **Devices** in the Reduxi Configurator. Only then do strategy commands affect the charger.

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

✓ Summary

Preparation (Points 1–2): Read the Voltie documents and prepare the equipment, including a static IP address for the Controller.

Voltie charger (Point 3): Register the charger in the Voltie app and connect it to Wi-Fi.

Add to Reduxi (Points 4–5): Log in to the Reduxi Configurator, add the charger with OCPP JSON 1.6, enter the URL on the charger and test the communication.

Go live (Point 6): Check the readings and set the control type to AUTO.

→ Common issues

ISSUE	SOLUTION
The charger does not connect to the Controller	Check that the URL on the charger ends with the Device ID and that the Device ID equals the Device identifier in Reduxi. Check that the Controller has a static IP address.
The charger lost its Wi-Fi connection after a router replacement	Repeat the Wi-Fi setup in the Voltie app.
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:



How to connect an EV charger (OCPP 1.6J) with Reduxi controller

General Reduxi guide for OCPP 1.6J chargers.



Device setup guides

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



Strategies for the Reduxi Controller

Energy manager and other strategies explained