

How to connect Tesla Backup Gateway battery with Reduxi controller

Connect the Tesla Backup Gateway and Powerwall to the Reduxi Controller.

🔌 Tesla Backup Gateway · Reduxi Controller

🌐 Network connection (IP address of the Powerwall)

🔒 Static IP recommended

TESLA

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1 Prepare the Tesla Backup Gateway

1.1 Required equipment

- ☐ Reduxi Controller
- ☐ Tesla Backup Gateway with Powerwall
- ☐ Network connection (router or switch)
- ☐ Laptop or tablet with internet access to configure the device in Reduxi

1.2 Physical connection

Follow the Tesla article [Powerwall pre-installation](#).

1.3 Connect to the Tesla Powerwall

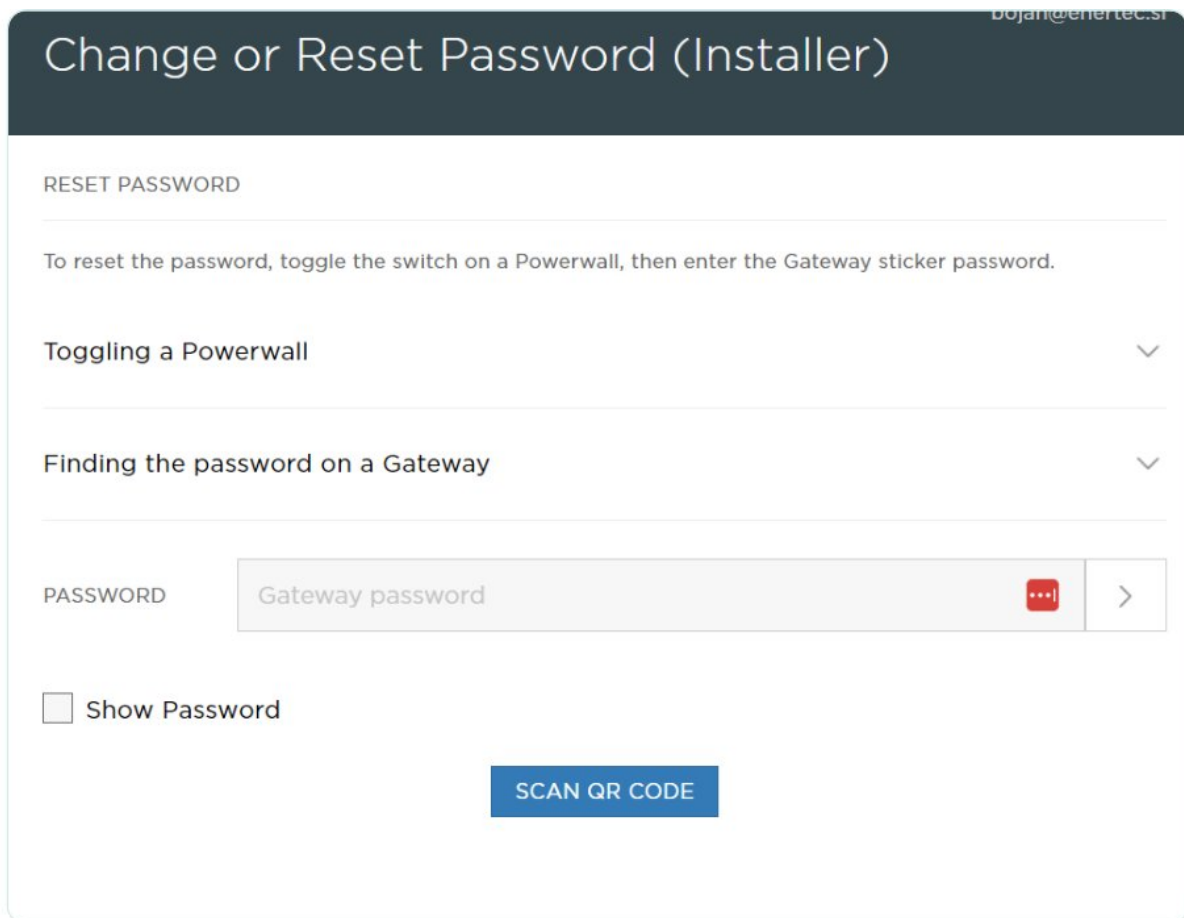
Follow the Tesla article [Connecting to Tesla Gateway and Powerwall](#).

2 Log in to the Tesla Powerwall

Follow the Tesla article [Powerwall Post-Installation](#). Use these login details:

- **Email:** the email you use for your Tesla account.
- **Password:** the first time you sign in, the password is the last five characters of the Gateway password.

If you forgot your password, tap **Change or Forgot Password** and follow the on-screen instructions.



Change or Reset Password (Installer)

RESET PASSWORD

To reset the password, toggle the switch on a Powerwall, then enter the Gateway sticker password.

Toggling a Powerwall

Finding the password on a Gateway

PASSWORD Gateway password

☐ Show Password

SCAN QR CODE

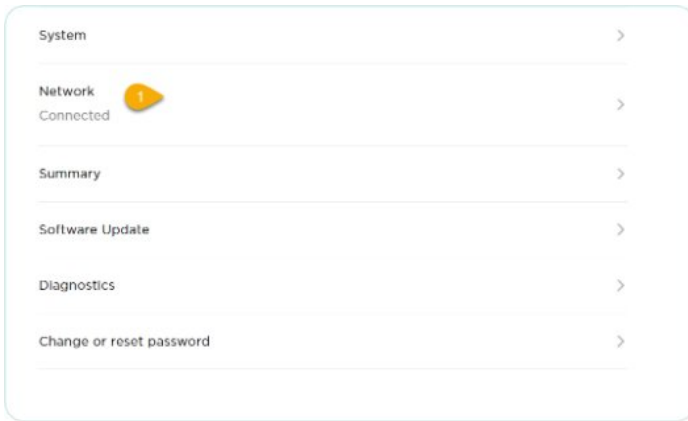
Login to the Tesla Powerwall

Text description of this image

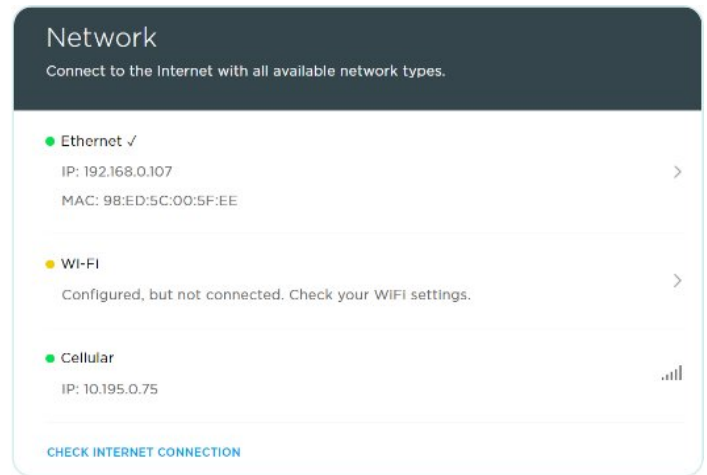
3 Gather the information for the Reduxi Configurator

3.1 Find the IP address

After you log in to the web interface, note the IP address of the Tesla Powerwall. You need it in the Reduxi Configurator.



Network configuration



IP address of the Powerwall

Text description of this image

Screenshot of a menu list in a battery gateway web interface (white background). Entries each with a

2. Text description of this image

Screenshot of the Network configuration page. The page has a dark header with the title 'Network' and the instruction 'Connect to the Internet with all available network types.'

3.2 Set a static IP



Recommendation

Set a static IP address for the Tesla Powerwall.

Ethernet

● Connected (192.168.0.107) ✓

CONFIGURATION

☒ **DHCP**



☐ **Static**

IP ADDRESS

Not available

SUBNET MASK

Not available

GATEWAY

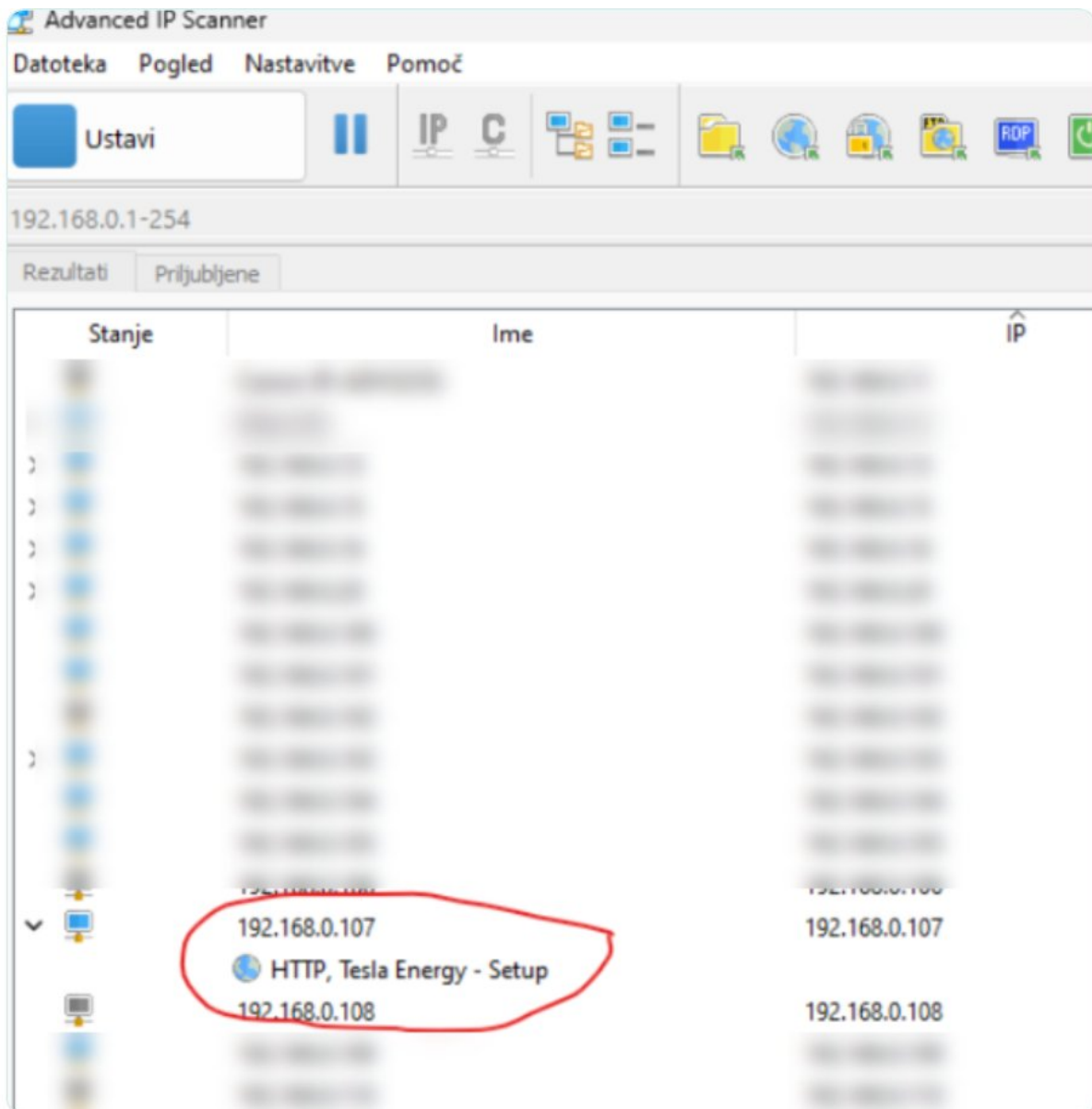
Not available

Static IP setting

Text description of this image

3.3 Verify the IP address (optional)

You can verify the IP address of the Tesla Powerwall with Advanced IP Scanner.



Advanced IP Scanner

Text description of this image

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 redux.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

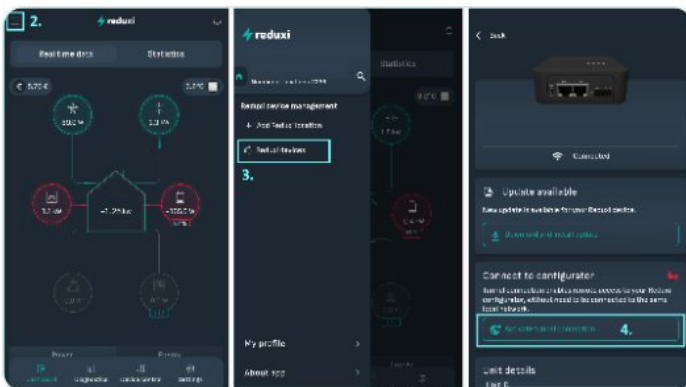
Tap the menu icon (three lines, top left) and select **Reduxi devices**.

3 Activate the tunnel connection

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

4 Open the configurator

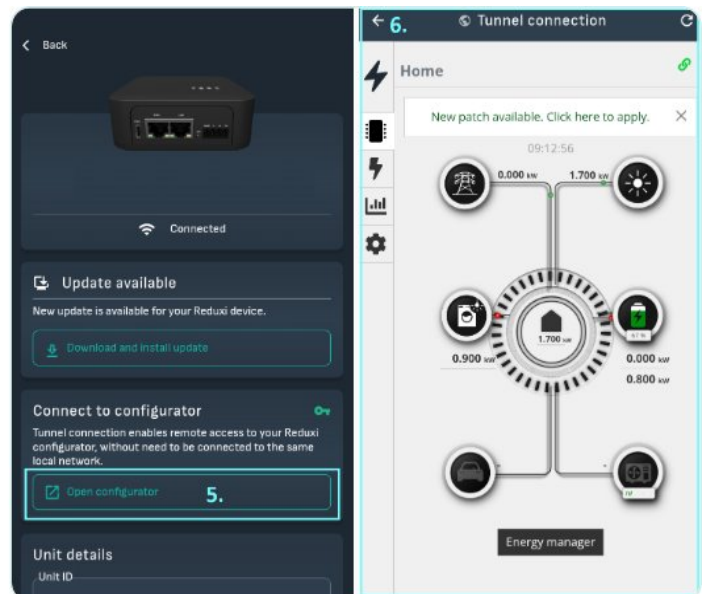
Tap **Open configurator**. The Reduxi web interface opens.



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)

2. 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**.

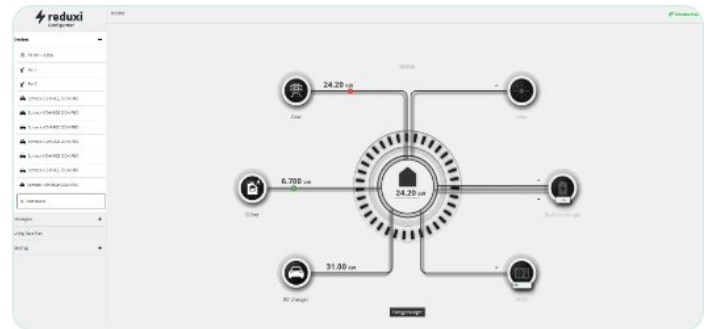
2

Log in

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



Reduxi Controller login screen



Controller web interface after login

2. Text description of this image

Screenshot of the Reduxi Configurator web interface

Text description of this image

5 Add the Tesla Backup Gateway to Reduxi

Use these steps to add a new Tesla Backup Gateway or to edit an existing one.

5.1 Basic settings

Log in to the [Reduxi Configurator via the browser](#) (see [Point 4](#)). Click **+ Add device** and enter the basic settings.

Basic settings

Device type *

Battery

Type *

Tesla Powerwall / Backup Gateway

Name *

Tesla Powerwall / Backup Gateway

Back

Next

Basic settings

Text description of this image

5.2 Communication settings

Select the communication channel and enter the device configuration. Use the IP address you gathered in [Point 3](#).

Communication channel and device configuration

Connection *

TCP/IP

IP *

192.168.0.107

Port *

443

Username *

test

Password *

test

Back Test communication Next

Communication settings

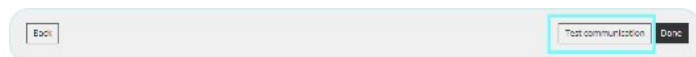
Text description of this image

5.3 Advanced settings

Enter and select the advanced settings of the device.

5.4 Test communication

Click **Test communication** at the bottom of the wizard. It reads the Tesla Backup Gateway 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'.

Communication channel and device configuration

Connection *

TCP/IP

IP *

192.168.20.248

Test for IP

Port *

202

Test port

Modbus unit ID *

1

Back Test communication Done

The **Done** button

2. Text description of this image

6 Check the readings

6.1 Last measurements

After communication is established, check the values under **Devices – Tesla** in the Reduxi Configurator as an additional test.

6.2 Enable control by Reduxi

For advanced battery control, integrate the device into the Reduxi strategy. Under **Devices** in the Reduxi Configurator, set the **control type** to **AUTO**. Only then do strategy commands affect the battery.

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

Images and instructions were gathered in cooperation with [Moja elektrarna](#).

✓ Summary

Preparation (Points 1–3): Connect the gateway following the Tesla articles. Log in to the Powerwall web interface and note its IP. Set a static IP.

Tesla Powerwall (Points 2–3): First password: last five characters of the Gateway password. Optionally verify the IP with Advanced IP Scanner.

Add to Reduxi (Points 4–5): Log in to the Reduxi Configurator, click + Add device, enter the settings and run Test communication.

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

→ Common issues

ISSUE	SOLUTION
Forgot the Tesla Powerwall password	Tap Change or Forgot Password on the login page and follow the on-screen instructions (see Point 2).
Communication stops after the IP changed	Set a static IP address for the Powerwall and enter it in the Reduxi Configurator (see Point 3).
IP address unknown	Verify the Powerwall IP with Advanced IP Scanner (see Point 3).
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:



Powerwall Post-Installation (Tesla Support)

Tesla article on login and first start of the Powerwall.



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