

Connect to ChargeAmps Charger

Connect your Charge Amps charger (Halo, Luna, ...) to the Reduxi Controller via Wi-Fi and OCPP.

🔑 Charge Amps charger · Reduxi Controller

🌐 Wi-Fi · OCPP 1.6 JSON

🔢 Device identifier = charger serial number



Charge Amps Luna EV charger

IN THIS ARTICLE

1. Technical documentation
2. Required equipment
3. Log in to the Reduxi web interface
 - Via the Reduxi app
 - Via a web browser
4. Set a static IP for the Reduxi Controller
5. Add the charger to Reduxi
 - Basic settings
 - Communication settings
6. Configure OCPP in the Charge Amps Installer app
 - Install the app
 - Connect to the charger
 - Connect the charger to Wi-Fi
 - Enter the OCPP URL
7. Test communication in Reduxi
8. Check the readings
9. Summary
10. Common issues
11. Related articles

1 Technical documentation

Manufacturer documents for the Charge Amps charger:

- [Charge Amps Luna Installation Manual](#) – Installation manual of the Luna charger (English).
- [Charge Amps Halo product page](#) – Specifications of the Halo charger.
- [Video: how to connect the charger in the Installer app](#) – Charge Amps video guide, see Point 6.

2 Required equipment

You need:

- ☐ Reduxi Controller
- ☐ Charge Amps charger (Halo, Luna, ...) with Wi-Fi and OCPP
- ☐ Serial number of the charger (used as Device identifier)
- ☐ Smartphone with the Charge Amps Installer app (Android or iOS)
- ☐ Wi-Fi network that both the Reduxi Controller and the charger can join
- ☐ Laptop or tablet with internet access to configure the device in Reduxi

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

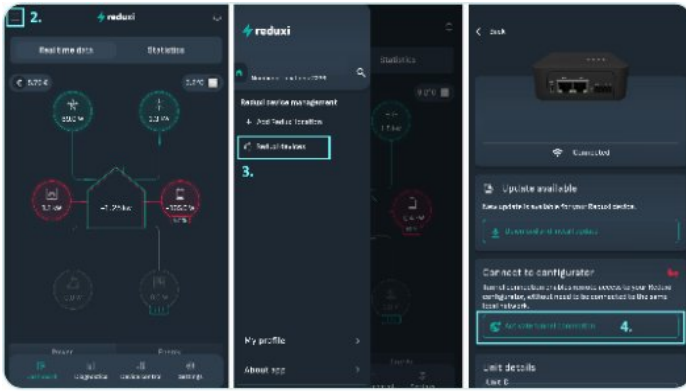
Activate the tunnel connection

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

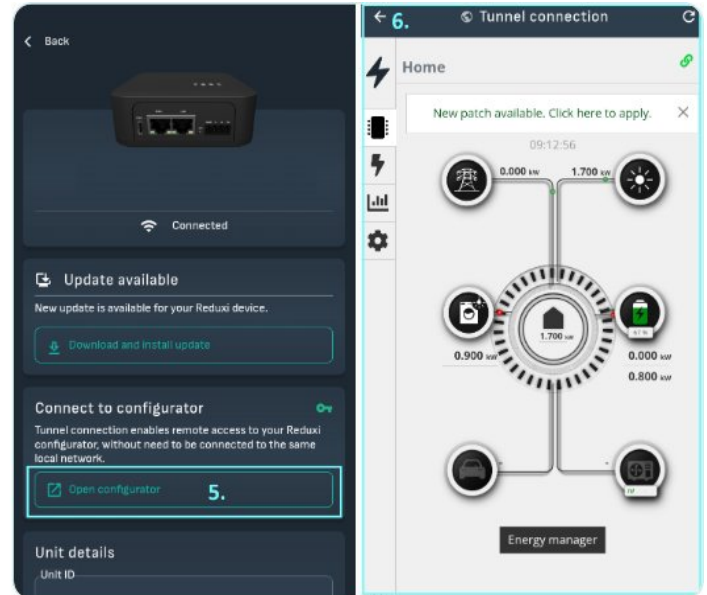
4

Open the configurator

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



Activate the tunnel connection (step 3)



Open configurator (step 4)

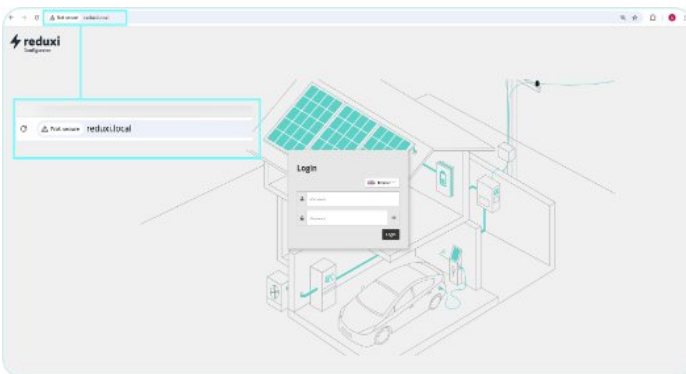
3.2 Via a web browser

1 Open the login page

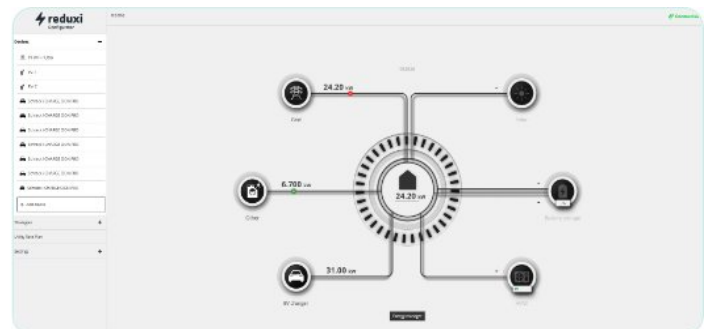
On a device in the same network, open a web browser and enter the controller's IP address or `http://reduxi.local`. You can find the controller's IP address in your router's device list or in the Reduxi app under **Reduxi devices**.

2 Log in

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



Reduxi Controller login screen



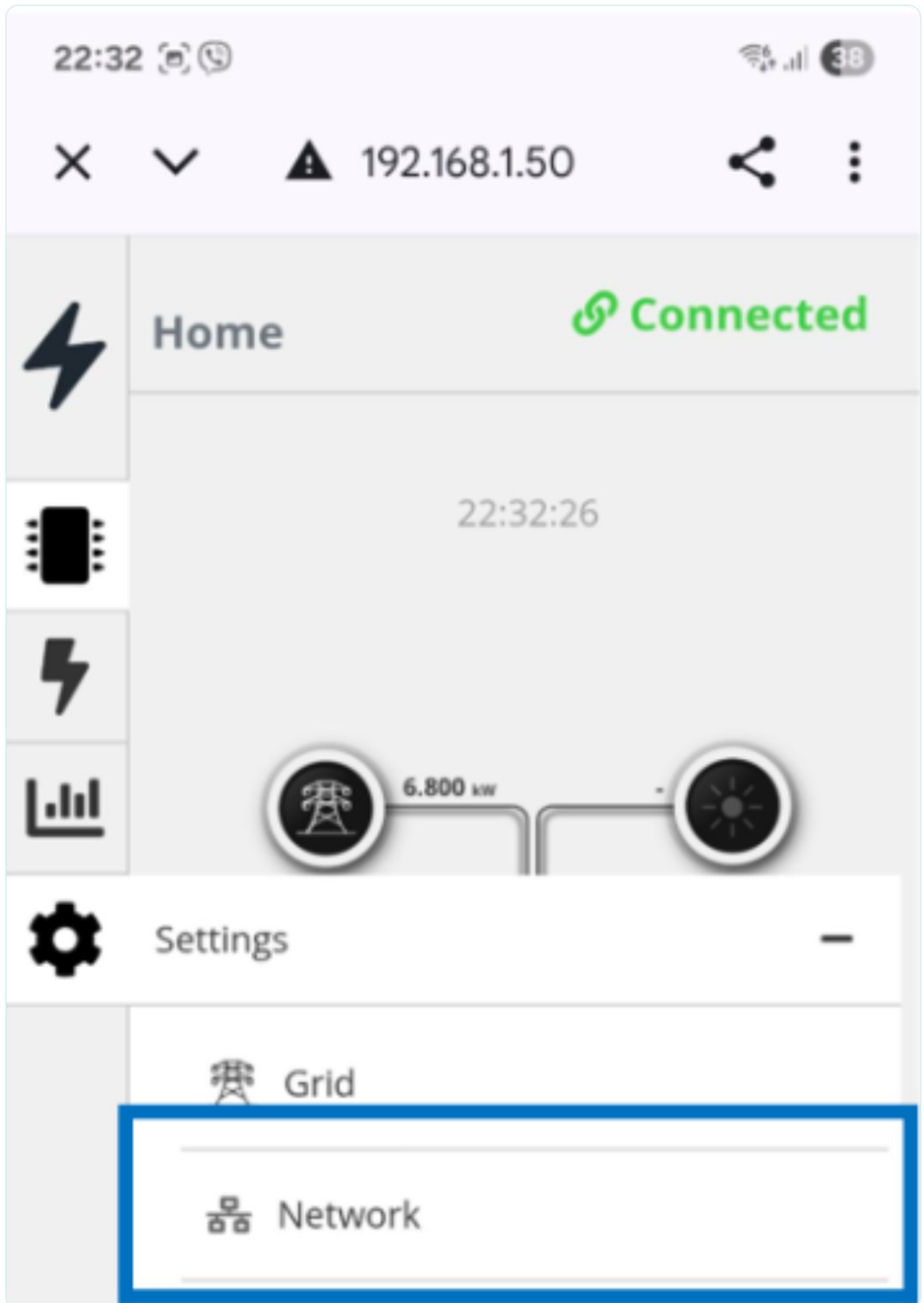
Controller web interface after login

4 Set a static IP for the Reduxi Controller

The charger connects to the controller by IP address. A fixed address keeps this connection stable.

4.1 Open the network settings

In the Reduxi Configurator (see [Point 3](#)) select **Settings – Network**.



Settings – Network

| 4.2 Enter the static IP

Select **Static IP**. Enter the static IP data for the communication module that is connected to your LAN (WAN, LAN or Wi-Fi). Select **Save**.



Settings

WAN

LAN

Wi-Fi

Mobile

DNS server

Proxy server

Network redundancy

Type

STATIC



IP

192.168.1.50

Netmask

255.255.255.0

Gateway ⓘ

192.168.1.1

5 Add the charger to Reduxi

Create the OCPP communication between the charger and the Reduxi Controller.

| 5.1 Basic settings

Click **+ Add device**.



Devices



Energy Meter

+ Add device

Strategies



Utility Rate Plan

Settings



The Add device button

Enter the basic settings:

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



Device

 **Connected**



1

Basic settings

2

Communication channel

Basic settings

Device type *

EV charger

Type *

OCPP 1.6 - JSON

Name *

Chargeamps Halo

Back

Next

Basic settings: device type, type and name

5.2 Communication settings

Configure the communication channel for OCPP:

PARAMETER	VALUE
Device identifier	Serial number of the charger
Controller OCPP JSON 1.6 URL	Shown at the bottom of the configuration page. Example: <code>ws://192.168.1.97/ocpp/1.6/json</code>



Device

 Connected



1

Basic settings

2

Communication channel

Communication channel and device configuration

There are no available connections.

Device identifier *

2104031222T

Connector *

1



Charger type *

AC



Energy counter

Default



Allocate power to EVSE when EV is not connected to EVSE

Default



Per phase max. current *

You need the **Controller OCPP JSON 1.6 URL** in [Point 6](#).

6 Configure OCPP in the Charge Amps Installer app

Paste the OCPP URL of the Reduxi Controller into the **CPMS Connection** menu of the app.

6.1 Install the Charge Amps Installer app



Charge Amps Installer app

Google Play: https://play.google.com/store/apps/details?id=com.chargeamps.installer&hl=en_US

Apple App Store: <https://apps.apple.com/de/app/charge-amps-installer/id6446256364>

6.2 Connect to the Charge Amps charger

Video: <https://www.youtube.com/watch?v=wQN1QZn6INY>

6.3 Connect the charger to the same Wi-Fi network as the Reduxi Controller

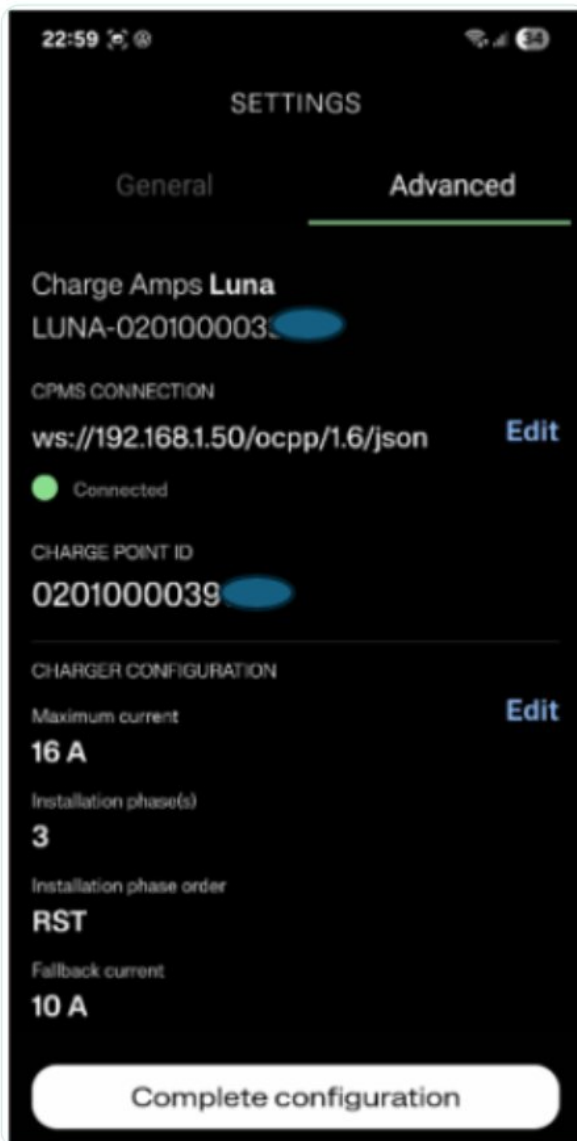
The Reduxi Controller and the charger must be in the same Wi-Fi network. In the app open the **Internet** menu, select the Wi-Fi network and connect the charger with the credentials of that network.

6.4 Enter the OCPP URL

1

Open CPMS Connection

Select the **Advanced** menu and choose **Edit** under **CPMS Connection**.

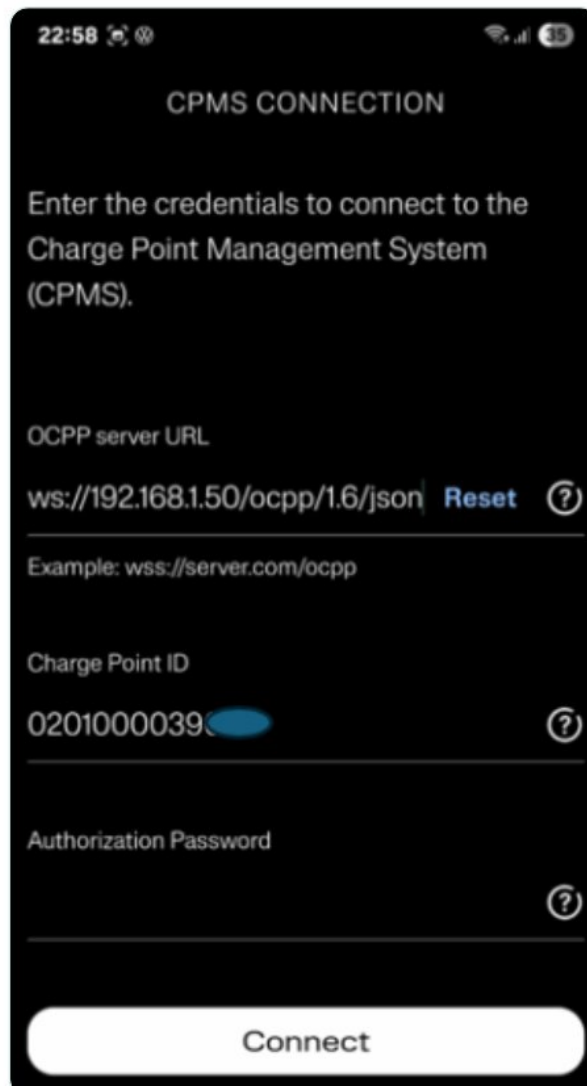


Advanced – CPMS Connection

2

Paste the URL

Under **OCPP server URL** paste the OCPP URL from the Reduxi Controller (see [Point 5](#)). Example: `ws://192.168.1.97/ocpp/1.6/json`. Click **Connect**.



22:58

CPMS CONNECTION

Enter the credentials to connect to the Charge Point Management System (CPMS).

OCPP server URL

`ws://192.168.1.50/ocpp/1.6/json` **Reset** ⓘ

Example: `wss://server.com/ocpp`

Charge Point ID

`0201000039` ⓘ

Authorization Password ⓘ

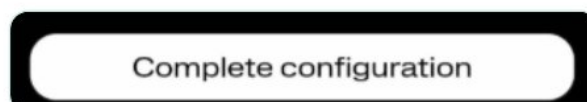
Connect

OCPP server URL

3

Complete configuration

Click **Complete configuration**.



Complete configuration

Complete configuration

4

Confirm

Click **I understand**.

I understand

I understand

7 Test communication in Reduxi

Go back to the Reduxi Configurator and the settings of the new device. Click **Test communication** at the lower right. The test reads the charger once and saves nothing. If the test succeeds, click **Done**: only **Done** creates the device.

The test returns one of three results:



Case 1: Communication is working properly



Case 2: Unable to communicate with device 1, ID of device is not set or is different



Case 3: No device with OCPP 1.6 communication is found

8

Check the readings

8.1 Last measurements

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

8.2 Enable control by Reduxi

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

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

✓ Summary

Preparation (Points 1–2): Collect the manuals and the equipment, including the charger serial number.

Charge Amps charger (Point 6): Install the Installer app, join the same Wi-Fi network and paste the OCPP URL of the controller into CPMS Connection.

Add to Reduxi (Points 3–5, 7): Log in, set a static IP, add an OCPP 1.6 – JSON device with the serial number as Device identifier, run Test communication and click Done.

Go live (Point 8): Check the last measurements and set the control type to AUTO.

→ Common issues

ISSUE	SOLUTION
Test communication: Unable to communicate with device 1	The Device identifier is not set or differs. Enter the serial number of the charger exactly (Point 5.2).
Test communication: No device with OCPP 1.6 communication is found	Check that the OCPP URL is entered in CPMS Connection (Point 6.4) and that the charger and the controller are in the same Wi-Fi network (Point 6.3).
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:



Charge Amps Luna installation manual

Installation manual of the Charge Amps Luna charger.



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