

How to connect GL Charge LiteBox EV charger with Reduxi controller

Connect the GL Charge LiteBox to the Reduxi Controller via OCPP 1.6 JSON. Reduxi can execute the DLMS to protect the installation.

 GL Charge LiteBox · Reduxi Controller

 OCPP 1.6 JSON

 Charger browser interface on port 8080

IN THIS ARTICLE

1. Required equipment
2. Configure the charger
 - Open the browser interface
 - Browser interface (charger configuration)
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 Required equipment

You need these components:

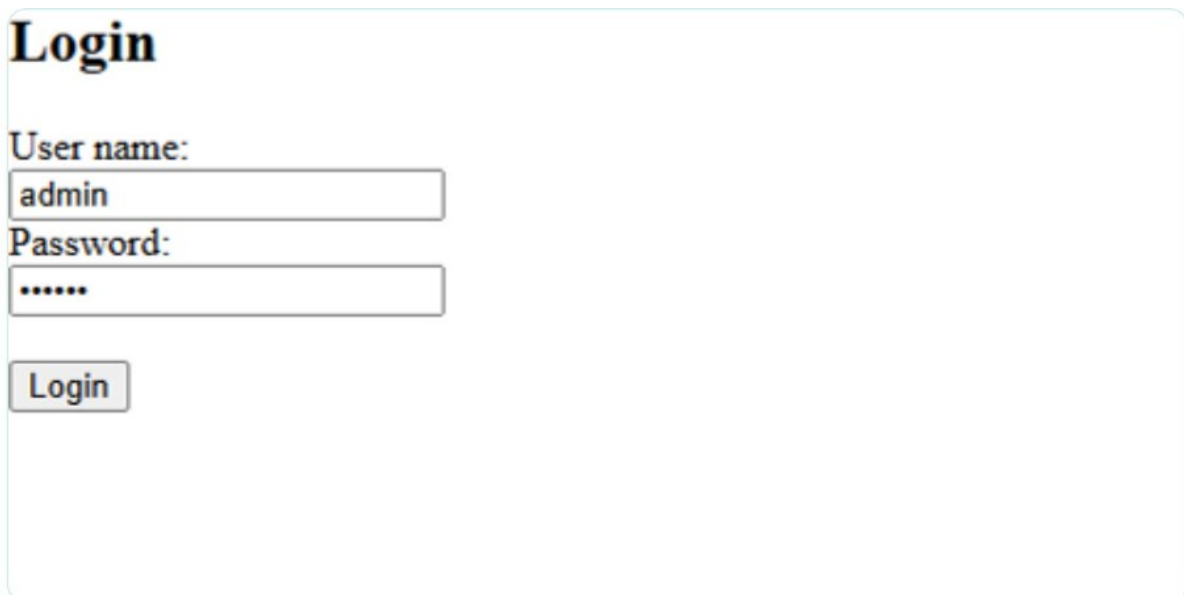
- ☐ Reduxi Controller
- ☐ GL Charge LiteBox charger
- ☐ Laptop or tablet with internet access to configure the device in Reduxi

2 Configure the charger

2.1 Open the browser interface of the charger

The PC and the charger must be in the same network. Then you can open the browser interface of the charger in your preferred browser.

- Enter the IP address of the charger and add port **8080** in the browser. Example: **10.150.1.104:8080**
- Log in with username **admin** and password **glc999**



Login page of the charger

Text description of this image

2.2 Browser interface (charger configuration)

Set the charger as follows:

- **Charger mode:** set to **1 = APP**
- **Charger ID:** set a value of your choice. Example: **1234**
- **Server URL:** enter the server URL of the Reduxi Controller (see [Point 4](#), Point 4.2)
- **Authentication Key:** delete it

Configure Charger Parameters

Charger Serial Number:	3010002303200035
Firmware Version:	A0-GL-V2.2.0
DateTime(2019-10-28 20:21:27):	2024-11-26 08:44:51
Timezone(-12.0~+12.0):	0.0
Charge Mode(1:APP,2:RFID,3:PnC):	1
Max Current(6~32A):	30
Charger ID(MaxLen 20):	1234
Server URL(MaxLen 128):	ws://10.150.1.120/ocpp/1.6/json
Authentication Key(MaxLen 40):	
Network Selection(1:WiFi, 2:4G, 4:LAN):	7

Charger configuration: charger mode, charger ID, server URL and authentication key

Text description of this image

3 Log in to the Reduxi web interface

You can open the Reduxi web interface in two ways:



REMOTE

Reduxi app

Via tunnel connection · works from anywhere



Web browser

In the local network · via IP address or reduxि.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

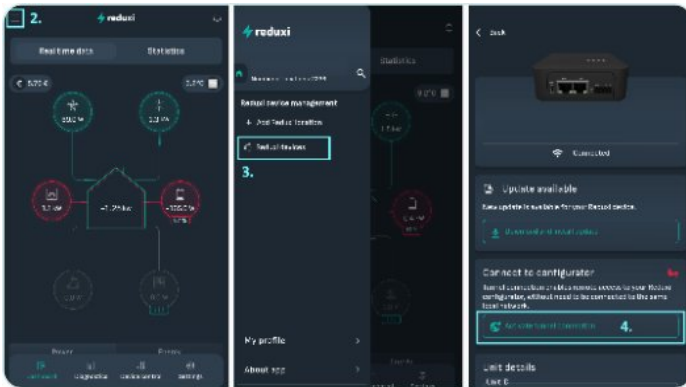
Tap the menu icon (three lines, top left) and select **Reduxi devices**.

3 Activate the tunnel connection

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

4 Open the configurator

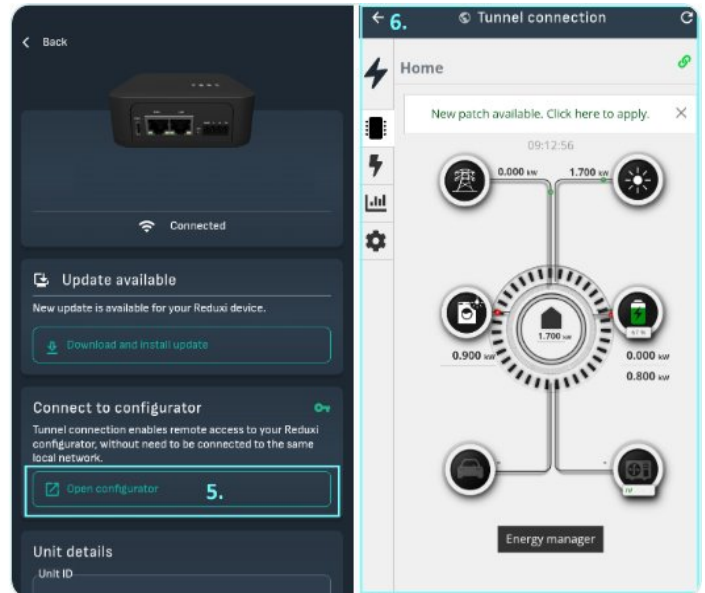
Tap **Open configurator**. The Reduxi web interface opens.



Activate the tunnel connection (step 3)

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

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**.

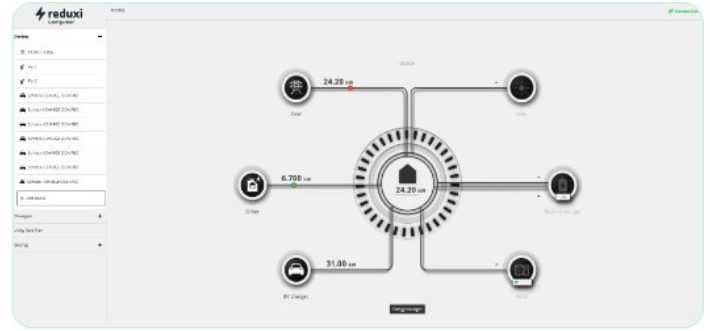
2 Log in

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



Reduxi Controller login screen

Text description of this image



Controller web interface after login

2. Text description of this image

Screenshot of the Reduxi Configurator web interface

4 Add the charger to Reduxi

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

4.1 Basic settings

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

reduxi[⚡]

CONFIGURATOR

Devices



Strategies



+ Add device

+ Add strategy

Settings

Profile

The Add device button

Text description of this image

In the first step (basic settings), select the basic parameters of the device:

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

The screenshot shows a configuration interface with a progress bar at the top indicating three steps: 1. Basic settings, 2. Communication channel, and 3. Advanced settings. The 'Basic settings' step is active. Below the progress bar, the 'Basic settings' form is displayed. It contains three dropdown menus: 'Device type *' (set to 'EV charger'), 'Type *' (set to 'OCPP 1.6 - JSON'), and 'Name *' (empty). At the bottom of the form, there are 'Back' and 'Next' buttons.

Basic settings: device type, type and name

Text description of this image

After you have entered everything, press **Next**.

4.2 Communication settings

The second step sets the communication channel for OCPP.

- Paste the **Device identifier** into the first field of the communication channel. It is the charger ID you set in the browser interface (see [Point 2](#), Point 2.2).
- The OCPP 1.6 JSON protocol needs the server OCPP URL. The Reduxi Controller generates it. You can copy the URL directly from the communication channel.

Example URL: **ws://10.150.120/ocpp/1.6/json/**

Communication channel and device configuration

Device identifier *

1234

Connector *

1

Charger type *

AC

Energy counter

Default

Allocate power to EVSE when EV is not connected to EVSE

Default

Per phase max. current *

Auto detect from EVSE

Per phase max. current manual override

32

In effect when manual override is selected

Forward communication to backend OCPP server

ws://app.eu.tridenstechnology.com/ev-charge/gw-comm/glcharge

Forward measurements to backend OCPP server once every

30 seconds

Allow new charging session

Forward to backend OCPP server

Controller OCPP JSON 1.6 URL

ws://10.150.1.120/ocpp/1.6/json

Back

Test communication

Next

Communication settings

Text description of this image

4.3 Test communication

Click **Test communication** at the lower right, below the communication channel fields. It checks that OCPP communication is established. If the test succeeds, click **Done**: only **Done** creates the device.

The **Test communication** button

Text description of this image

The test returns one of three results:



1. Communication works properly

Text description of this image



2. Unable to communicate with device 1:
the ID of the device is not set or is
different

2. Text description of this image



3. No device with OCPP 1.6
communication is found

3. Text description of this image

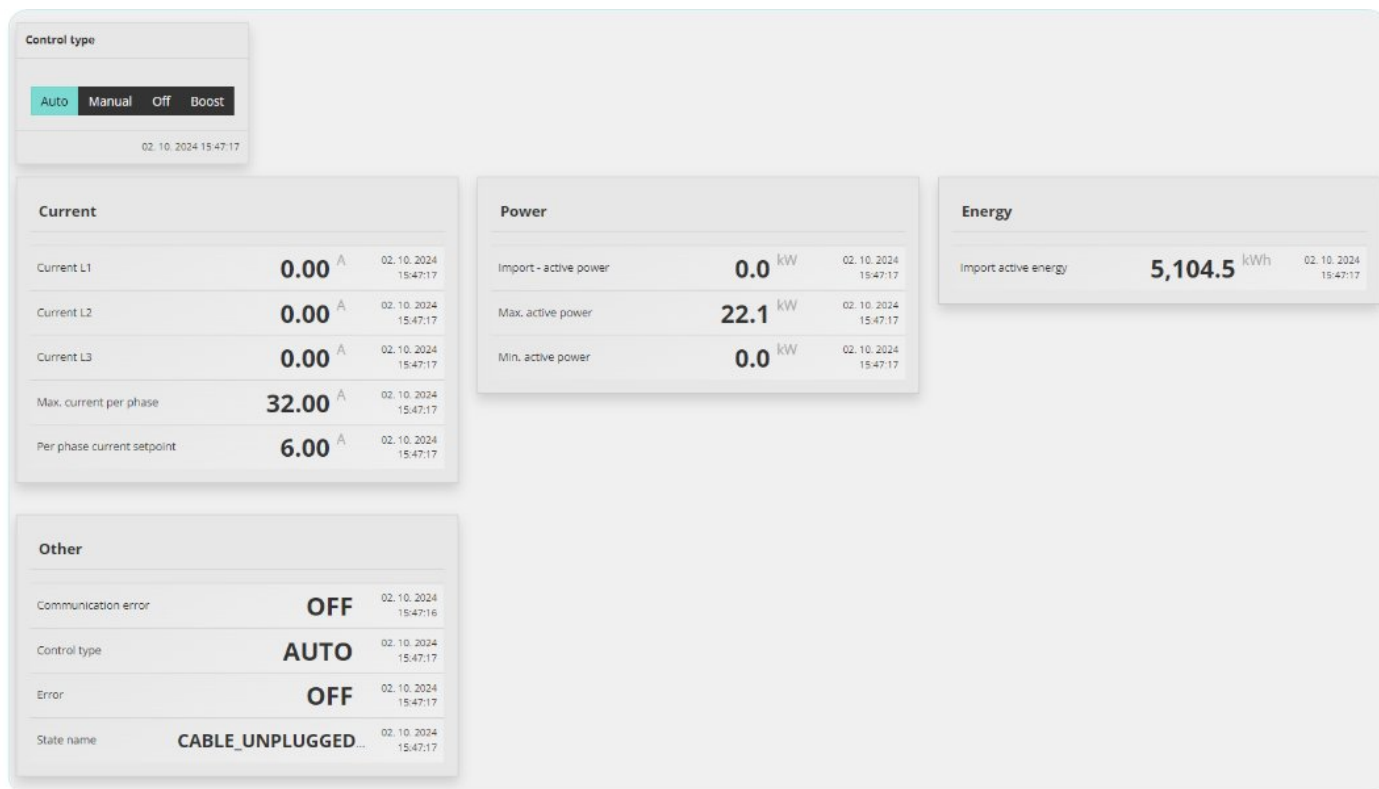
Screenshot of a dialog titled "Test

Screenshot of a dialog titled "Test

5 Check the readings

5.1 Last measurements

After communication is established, check the readings under **Devices – Last measurements** in the Reduxi Configurator.



Last measurements of the charger

Text description of this image

5.2 Monitor the charger in the cloud

After you have added the device in the Reduxi Configurator, you can monitor it in the **Reduxi cloud application**.

✓ Summary

Preparation (Points 1–2): Collect the equipment. Open the charger browser interface on port 8080. Set charger mode APP, the charger ID and the Reduxi server URL. Delete the authentication key.

Log in (Point 3): Log in to the Reduxi Configurator on the controller.

Add to Reduxi (Point 4): Add an EV charger of type OCPP 1.6 – JSON, paste the charger ID as device identifier and run Test communication. Click Done.

Go live (Point 5): Check the last measurements in the Reduxi Configurator. Monitor the charger in the Reduxi cloud application.

→ Common issues

ISSUE	SOLUTION
The charger browser interface does not open	The PC and the charger must be in the same network. Enter the charger IP address with port 8080, for example 10.150.1.104:8080.
Test communication: the ID of the device is not set or is different	The device identifier in the Reduxi Configurator must be the charger ID set in the charger browser interface.
Test communication: no device with OCPP 1.6J communication found	Check the server URL of the Reduxi Controller in the charger browser interface. Charger mode must be 1 = APP and the authentication key must be deleted.
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

Reduxi guide for adding an EV charger via OCPP 1.6J.



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