

# Connect GL Charge LiteBox to Reduxi

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

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## 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

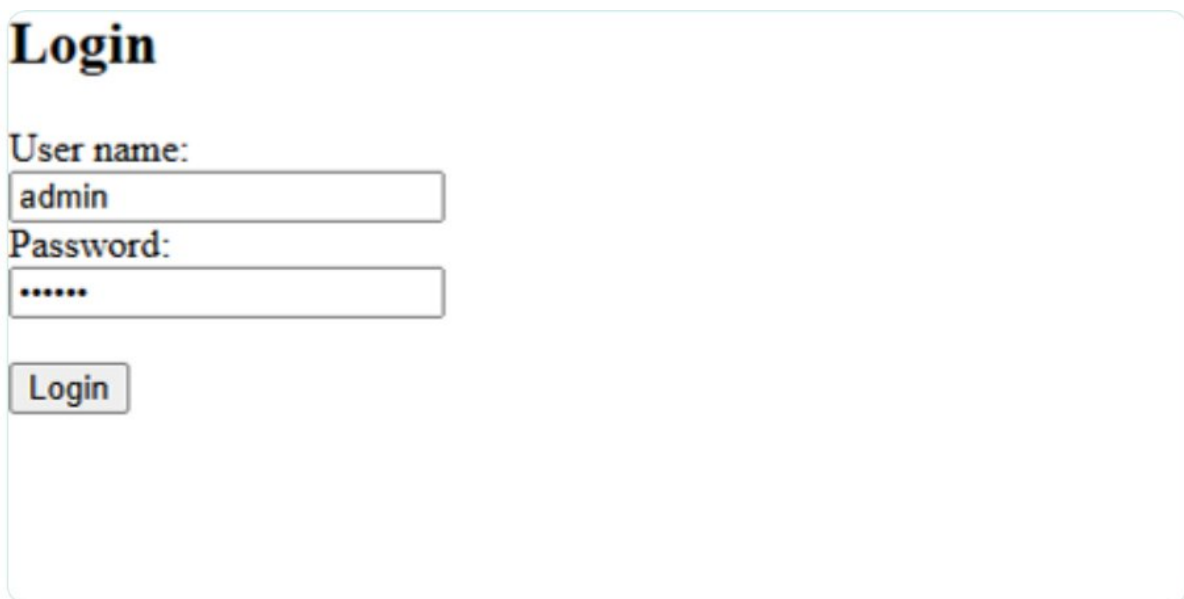
## 2 Configure the charger

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### 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*

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

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

### 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**.

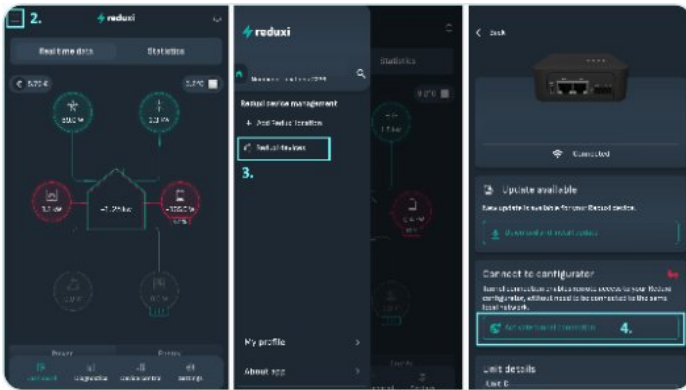
##### 3 Activate the tunnel connection

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

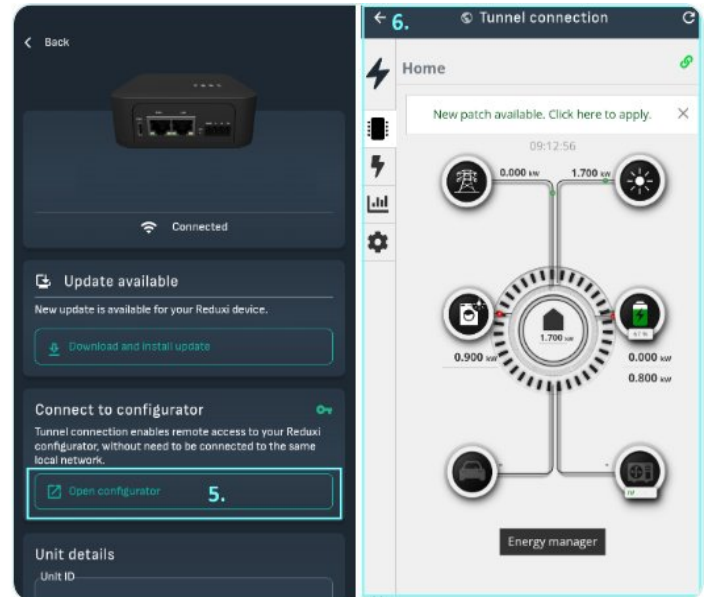
4

## Open the configurator

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



Activate the tunnel connection (step 3)



Open configurator (step 4)

## 3.2 Via a web browser

1

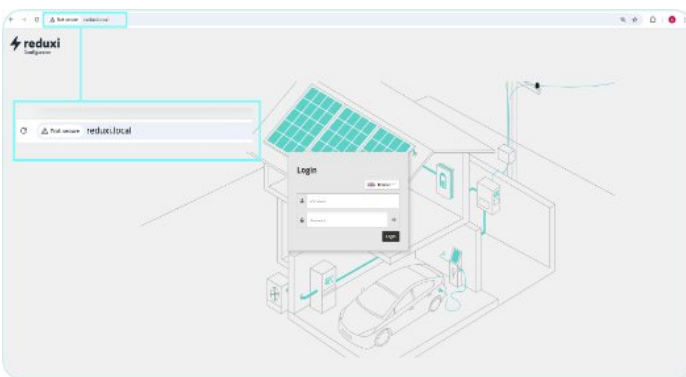
## Open the login page

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**.

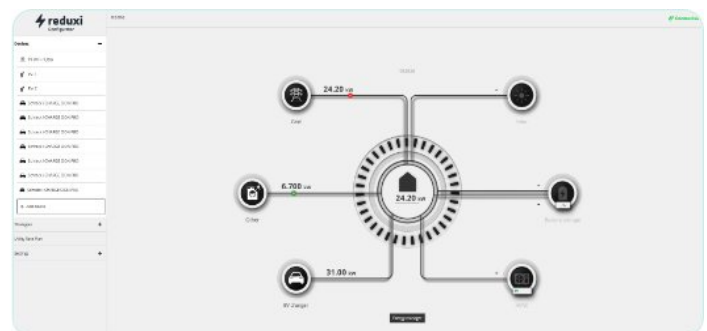
2

## Log in

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



Reduxi Controller login screen



Controller web interface after login

## 4 Add the charger to Reduxi

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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<sup>⚡</sup>

## CONFIGURATOR

Devices



Strategies



+ Add device

+ Add strategy

Settings

Profile

*The **Add device** button*

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

1 Basic settings      2 Communication channel      3 Advanced settings

### Basic settings

Device type \*

Type \*

Name \*

Back      Next

*Basic settings: device type, type and name*

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 *                                     | <input type="text" value="1234"/>                                                                                                                  |
| Connector *                                             | <input type="text" value="1"/>                                                                                                                     |
| Charger type *                                          | <input type="text" value="AC"/>                                                                                                                    |
| Energy counter                                          | <input type="text" value="Default"/>                                                                                                               |
| Allocate power to EVSE when EV is not connected to EVSE | <input type="text" value="Default"/>                                                                                                               |
| Per phase max. current *                                | <input type="text" value="Auto detect from EVSE"/>                                                                                                 |
| Per phase max. current manual override                  | <input type="text" value="32"/>                                                                                                                    |
| In effect when manual override is selected              |                                                                                                                                                    |
| Forward communication to backend OCPP server            | <input type="text" value="ws://app.eu.tridenstechnology.com/ev-charge/gw-comm/glcharge"/>                                                          |
| Forward measurements to backend OCPP server once every  | <input type="text" value="30 seconds"/>                                                                                                            |
| Allow new charging session                              | <input type="text" value="Forward to backend OCPP server"/>                                                                                        |
| Controller OCPP JSON 1.6 URL                            | <input type="text" value="ws://10.150.1.120/ocpp/1.6/json"/>  |
| <input type="button" value="Back"/>                     | <input type="button" value="Test communication"/> <input type="button" value="Next"/>                                                              |

Communication settings

### 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.

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

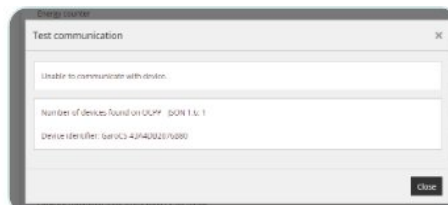
Next

The **Test communication** button

The test returns one of three results:



1. Communication works properly



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

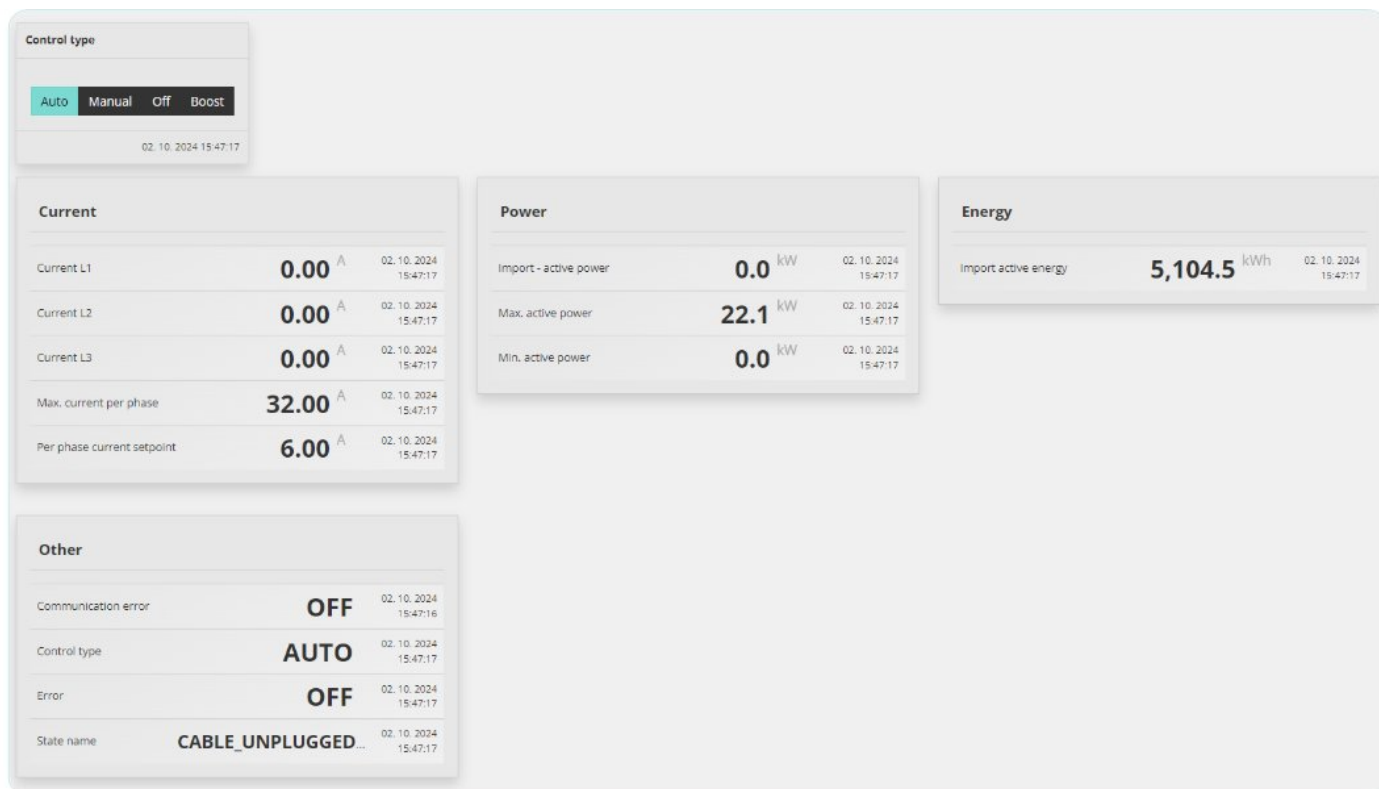


3. No device with OCPP 1.6  
communication is found

## 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*

## 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



### List of supported devices

All devices that work with the Reduxi Controller



### Strategies for the Reduxi Controller

Energy manager and other strategies explained