

How to connect SolarEdge StorEdge battery with Reduxi controller

Add a SolarEdge StorEdge battery system to the Reduxi Controller.

🔌 SolarEdge StorEdge · Reduxi Controller

🌐 Modbus TCP (disabled by default)

🔢 Modbus unit ID: normally 1



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1 Technical documentation

SolarEdge documents for the StorEdge system and the Modbus TCP interface:

- [SolarEdge Knowledge Center: StorEdge documents](#) – Manufacturer instructions for connecting and configuring the device.
- [SolarEdge Inverters: SunSpec Logging Technical Note](#) – Modbus TCP settings of SolarEdge inverters.

2 Required equipment

- ☐ SolarEdge StorEdge system (inverter with battery)
- ☐ Ethernet connection of the inverter to the local network
- ☐ Reduxi Controller
- ☐ Laptop or tablet with internet access to configure the device in Reduxi

3 Device configuration (SolarEdge StorEdge)

3.1 Connect and configure the device

Find the instructions on the manufacturer web page: [SolarEdge Knowledge Center](#)

3.2 Enable Modbus TCP on the inverter

Modbus TCP is disabled by default. Enable it on the inverter. SolarEdge describes two ways:

INVERTER	MENU PATH	DEFAULT PORT
SetApp	Site Communication – Modbus TCP – Enable	1502
LCD display	Communication – LAN Conf – Modbus TCP	502

The default Modbus device ID of the Ethernet-connected inverter is **1**. For the LCD menu step by step, see [How to add SolarEdge Solar Power Plant Inverter with display to Reduxi Configurator](#).



Note

Write down the IP address, the port and the Modbus unit ID of the inverter. You need them in the Reduxi Configurator (see [Point 5](#)).

4 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

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

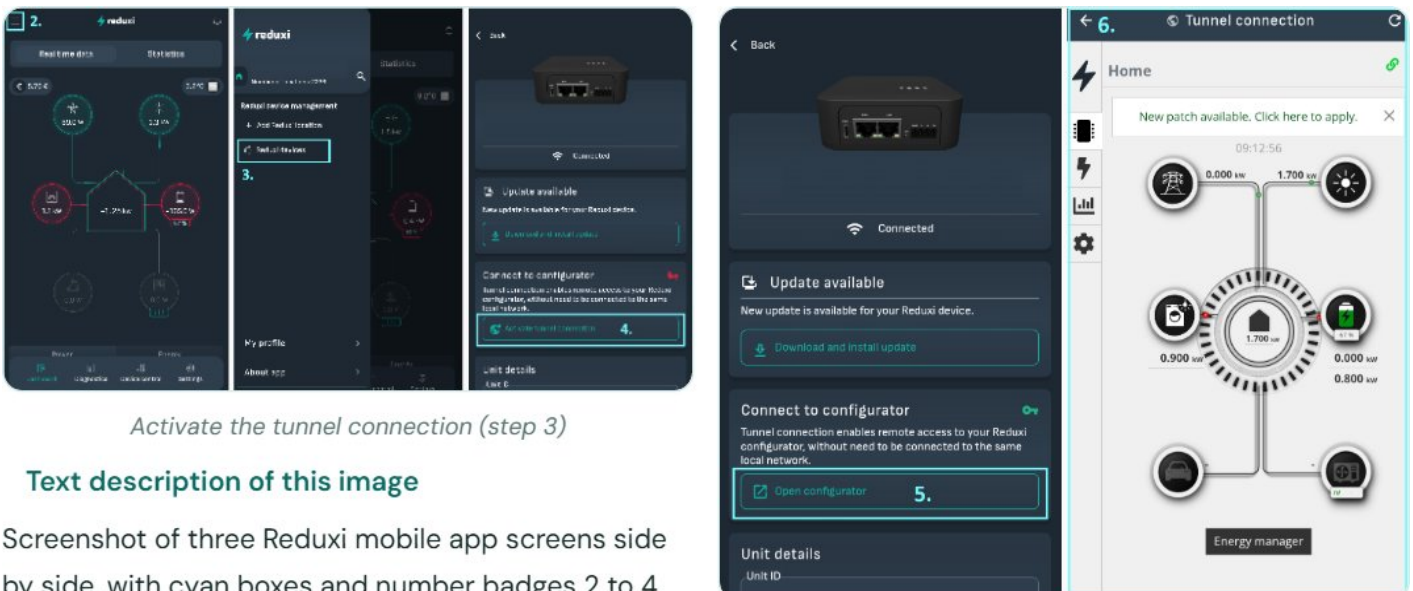
Tap the menu icon (three lines, top left) and select **Reduxi devices**.

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; 'reduxि' logo; tabs 'Real time data' (active) and 'Statistics'; price 5.79

Open configurator (step 4)

2. Text description of this image

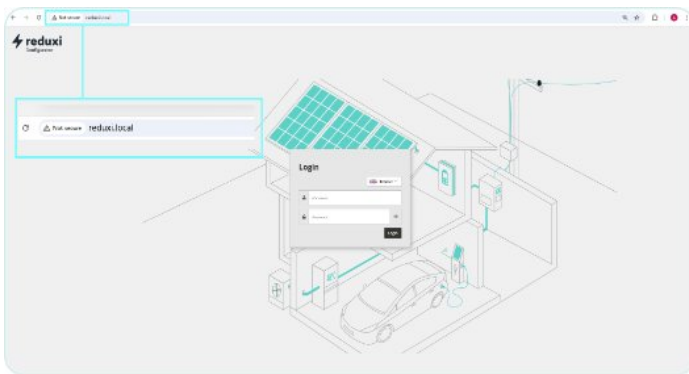
4.2 Via a web browser

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**.

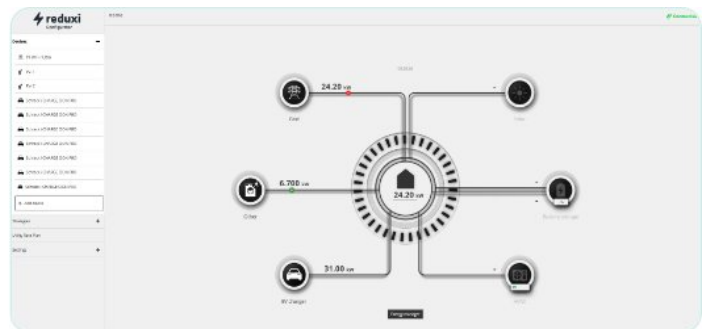
2 Log in

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



Reduxi Controller login screen

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 device to Reduxi

5.1 Basic settings

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

5.2 Communication settings

Select the communication channel and enter the device configuration:

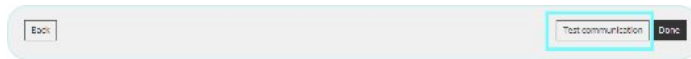
PARAMETER	VALUE
IP	The IP address set on the inverter
Port	The port set on the inverter (Point 3.2)
Modbus unit ID	Normally <code>1</code>

5.3 Advanced settings

Enter and choose the advanced settings.

5.4 Test communication

Click **Test communication** at the bottom of the wizard. It reads the SolarEdge StorEdge 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

6 Check the readings

6.1 Last measurements

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

6.2 Enable control by Reduxi

Set the **control type** to **AUTO**. Only then do strategy commands affect the device. To define a strategy, see [Strategies for Reduxi controller](#).

✓ Summary

Preparation (Points 1–2): Find the SolarEdge documents and prepare the equipment.

SolarEdge StorEdge (Point 3): Connect and configure the device and enable Modbus TCP on the inverter.

Add to Reduxi (Points 4–5): Log in to the Reduxi Configurator, add the device with the IP address, port and Modbus unit ID of the inverter, and test communication.

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

→ Common issues

ISSUE	SOLUTION
Communication test fails	Check that Modbus TCP is enabled on the inverter. It is disabled by default (Point 3.2).
Port does not match	Use the port set on the inverter. Defaults: SetApp 1502 , LCD display 502 (Point 3.2).
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 admin is rejected	The password was changed during installation. Ask the installer. The Reduxi account password does not work here.
reduxi.local 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 add SolarEdge Solar Power Plant Inverter with display

Enable Modbus TCP on a SolarEdge inverter with LCD display.



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