

How to connect Huawei SUN2000 (SDongleA-05) with Reduxi controller

Tested firmware combinations of Huawei SUN2000 inverters with the SDongleA-05 dongle.

🔌 Huawei SUN2000 · SDongleA-05

📶 Huawei Smart Dongle (USB, Ethernet, Wi-Fi)

📄 4 tested firmware combinations



Huawei Smart Dongle

Text description of this image

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1 Technical documentation

The SDongleA-05 is the Huawei Smart Dongle (AP+STA) that connects a SUN2000 inverter to the network. It connects to the inverter through USB. The Huawei specification page lists it with an Ethernet interface (10/100 Mbps) and Wi-Fi (802.11 b/g/n), and with up to 10 devices and 10 inverters.

Manufacturer documents:

- [Huawei documentation EDOC1100387520](#) – document on the Huawei support site (web)
- [Huawei Smart Dongle-WLAN-FE](#) – specifications (web, EN)
- [How to connect Huawei SUN2000 \(Smart Dongle WLAN-FE / 4G\) with Reduxi controller](#) – Reduxi guide: set up the dongle and its internet access

2 Tested firmware combinations

These inverter and dongle firmware combinations were tested. The last column shows whether the battery charging was limited by the PV output.

INVERTER FW	DONGLE FW	SERIAL NUMBER INVERTER	SERIAL NUMBER DONGLE	BATTERY CHARGING
V200R023C10SPC208	V200R022C10SPC118	NS2461328500	TA2490184907	Charging limited by PV output
V100R001C00SPC168	V200R022C10SPC118	HV2330962672	TA2490184839	Charging limited by PV output
V200R023C10SPC208	V200R022C10SPC201	NS2461148875	NS2481544355	Charging limited by PV output
V200R023C10SPC209	V200R022C10SPC210	NS2461328429	TA2490184743	Charging NOT limited by PV output -> OK!



Result

Only the last combination (inverter V200R023C10SPC209, dongle V200R022C10SPC210) charges the battery without a limit by the PV output.

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

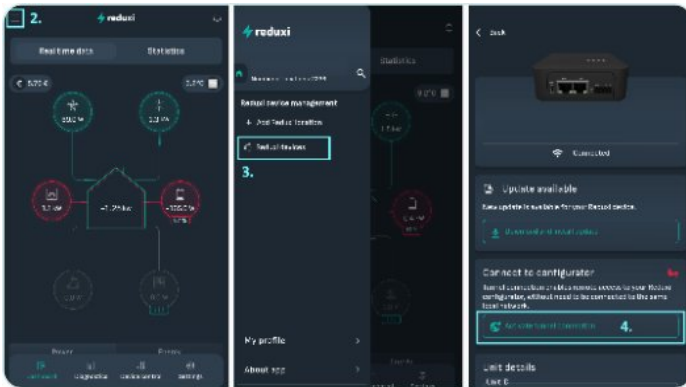
Tap the menu icon (three lines, top left) and select **Reduxi devices**.

3 Activate the tunnel connection

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

4 Open the configurator

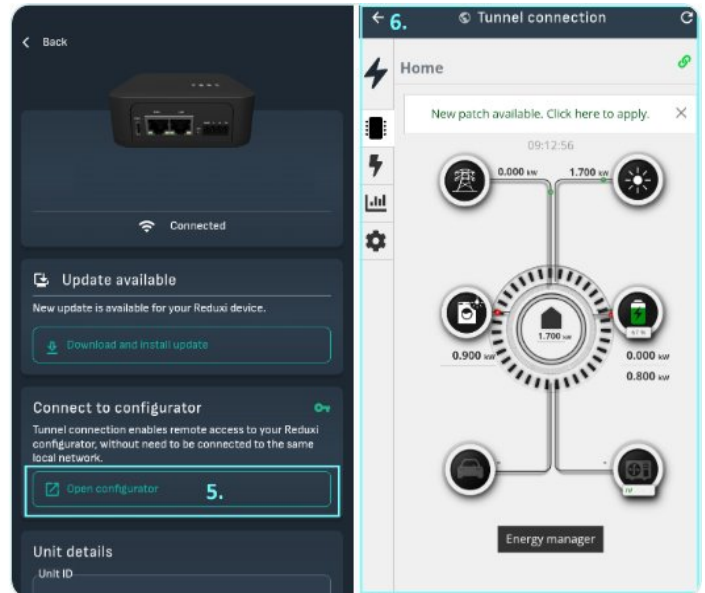
Tap **Open configurator**. The Reduxi web interface opens.



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**.

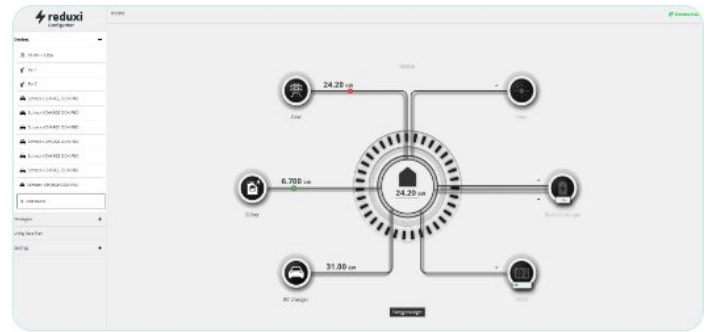
2 Log in

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 device to Reduxi

Open the Configurator first, see [Point 3](#). The device is added with the wizard in two steps.

4.1 Basic settings

1 Click + Add device

In the left menu the section **Devices** lists all devices (click it if it is collapsed). **+ Add device** sits directly below the list. Do not use **+ Add EEBUS device**.

2 Device type and type

Select the Huawei SUN2000 type listed in the List of supported devices.

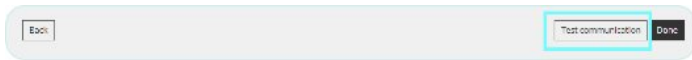
3 Name and strategies

Enter a clear name, for example **Huawei SUN2000**. Tick the strategies the device should take part in, then click **Next**.

In the second step, enter the communication settings of the inverter.

4.2 Test communication

Click **Test communication** at the bottom of the wizard. It reads the Huawei SUN2000 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

Communication channel and device configuration

5 Check the readings

5.1 Last measurements

Open **Devices** → **your Huawei SUN2000 device** → **Last measurements** in the Configurator. The values show whether the inverter communicates correctly.

5.2 Control behaviour

For control by the Reduxi strategies, open **Devices** and your Huawei device in [the Reduxi Configurator](#) and set the control type to **AUTO**. Check the battery charging behaviour against the table in [Point 2](#).

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

✓ Summary

Preparation (Point 1): Check the Huawei documentation and the firmware versions of inverter and dongle.

Huawei SDongleA-05 (Point 2): Only the combination inverter V200R023C10SPC209 and dongle V200R022C10SPC210 charges the battery without a limit by the PV output.

Add to Reduxi (Points 3–4): Open the Configurator, add the Huawei SUN2000, enter the communication settings, run Test communication and click Done.

Go live (Point 5): Check the last measurements and set the control type to **AUTO**.

→ Common issues

ISSUE	SOLUTION
Battery charging is limited by the PV output	Check the firmware versions of inverter and dongle. In the tested combinations, charging was not limited with inverter V200R023C10SPC209 and dongle V200R022C10SPC210.
Test communication fails	Check the communication settings against the inverter and that Controller and inverter can reach each other.
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:



How to connect Huawei SUN2000 (Smart Dongle WLAN-FE / 4G) with Reduxi controller

Set up the Huawei Smart Dongle: local connection and internet access



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