Guide for Europe

Install and Configure the SolarEdge ONE EV Charger for Residential and C&I Installations

Version 2.0

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Table Of Contents

Revision history 1
SolarEdge ONE EV and ONE EV Pro charger overview 1
Guide overview 1
Install, operate and maintain the EV charger 1
Install the EV charger 1
Operate the EV charger 2
Maintain the EV charger 3
Configure the EV charger 3
Configure the EV charger for residential installations 3
Configure the EV charger for C&I installations 9
Reconfigure the EV charger for residential and C&I installations 15
Change the grid type for residential and C&I installations 17

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Revision history

- Version 2.0, September 2025: Updated user interface for residential software
- Version 1.0, May 2025: Initial version

SolarEdge ONE EV and ONE EV Pro charger overview

The SolarEdge ONE EV Charger utilizes your excess PV energy to charge your EV efficiently and maximize your self-consumption. It provides the following:

- Advanced scheduling features to lower electricity bills
- Compatible with single and three-phase installations
- Multiple authentication options, including a built-in RFID reader, mobile app, or plug-and-play
- Flexible charging options, supporting socket or tethered configurations with a cable lock
- Remote monitoring and control via SolarEdge apps, enabling you to operate your EV charger remotely, manage your charging schedules, and track your charging history
- The PRO version includes optional cellular connectivity for SolarEdge C&I and Wevo

Guide overview

This guide contains instructions for installing, maintaining, and operating the SolarEdge ONE EV charger and ONE EV Pro, and explains how to configure the EV charger after installation.

The Quick Installation Guide (QIG) shipped with the EV charger explains how to install the EV charger out of the box. For technical specifications, refer to the Datasheet.

IMPORTANT

For SolarEdge ONE EV for C&I, stand-alone, and third-party Charge Point Management Systems (CPMS), set up the CPMS system before configuration. To set up a C&I CPMS system with ONE EV for C&I, email: Support-EV@solaredge.com. For third-party CPMS setups, contact your Charge Point Operator / CPMS provider.

Install, operate and maintain the EV charger

The following information explains how to install, [1] operate [2] and maintain [3] the EV charger.

Install the EV charger

To install the EV charger, follow these instructions:

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NOTE

Only certified installers are allowed to install the EV charger. Ensure you comply with national and regional regulations during the installation process.

1. Connect the EV to an upstream circuit breaker (MAX 40A, C-curve recommended) and an RCD suitable for the electrical connection that meets the requirements of the applicable regulations (40A, 30mA type A RCD recommended).
2. Ensure that the charger's AC grid connection and load planning comply with all current national and regional laws, regulations, and standards. Obtain approval from the relevant authorities to ensure compliance.
3. Before and during installation, switch off the power and electricity. Activate the power after the entire installation is complete.
4. Ensure the charger is stored away from flammables, explosives, or flowing water. Avoid exposure to direct sunlight and extreme weather conditions, such as blizzards and thunderstorms.
5. Maintain a relative humidity below 80% in the storage and usage space. Avoid the presence of radioactive or corrosive substances. Maintain a stable temperature within the range specified in the Datasheet technical specifications. For outdoor facilities, conduct inspections as per local laws and regulations.
6. Install the EV charger in a fixed location with sufficient wall or structural load-bearing capacity.
7. Do not install the EV charger close to strong electromagnetic fields or radio transmitters.
8. Refer to the Quick Installation Guide for instructions on opening and closing the EV charger.
9. Do not use the charging cable with an extension cable or adapter. Only use cables specified in IEC 62196. Do not step on or squeeze the cable during installation. To ensure safe and efficient charging, the installer must verify that the cable and charger are compatible, are not worn, and the insulation is undamaged. Position the cable to prevent unintended movement by humans, animals, or other moving objects.
10. The installer and homeowner are responsible for connecting and installing ground protection. It is critical that the installation is correctly grounded and that a properly grounded electrical outlet is used, as per local laws and regulations.
11. The EV charger is designed for use in open-access areas.

NOTE

Regulations may differ depending on your region or country of residence.

Operate the EV charger

To operate the EV charger, follow these instructions:

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1. Keep the EV charger's QIG and PIN code in a safe place.
2. When the power circuit is active, the terminals on the backplate are electrified; do not touch or make contact, except when the charger is installed.
3. Do not allow any foreign objects except cable plugs to touch the socket.
4. Do not pull or poke the cable with sharp objects.
5. Do not touch the cable plug with wet hands.
6. Do not use extension car charging cables.
7. Replace damaged cables or plugs to prevent safety hazards.

Maintain the EV charger

To maintain the EV charger, follow these instructions:

1. Maintenance and repairs to the charger should only be performed by authorized electricians.
2. Disconnect the power before disassembly, and follow the reverse operations in Install the EV charger [1].
3. Transport EV chargers in their packaging. If the EV charger is dropped, conduct a visual inspection. Do not install or use damaged products.



NOTE

Maintenance, repair, and disposal of the EV charger must adhere to national and regional laws, regulations, and standards.

Configure the EV charger

The following explains how to configure the SolarEdge ONE EV charger for residential [3] and C&I [9] installations.

Refer to the SolarEdge ONE EV charger web page for further information about the SolarEdge ONE EV charger.

Configure the EV charger for residential installations

After installing and connecting the EV charger, turn it on to configure it for Ethernet and Wi-Fi with **SolarEdge Go**.

The following procedures explain how to configure the EV charger for residential use.

To connect the EV charger to Ethernet:

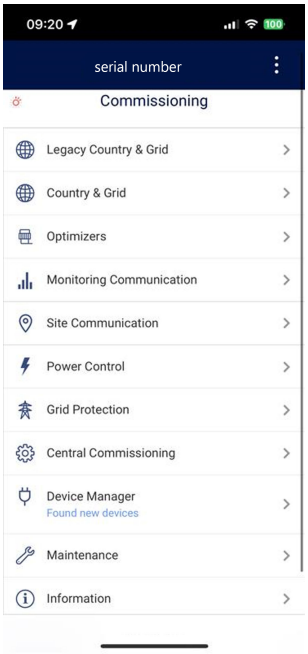
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NOTE

SolarEdge recommends connecting your EV charger via Ethernet to ensure a stable connection.

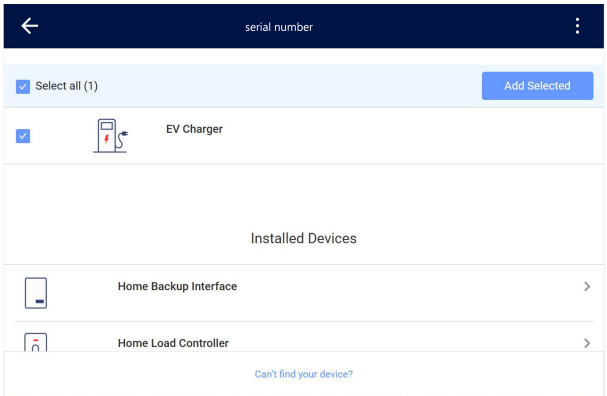
1. Connect the Ethernet cable to your SolarEdge ONE EV charger and router. Make sure your EV charger is in the same network as your inverter.
2. Open SolarEdge Go or SetApp, and scan the QR code on the inverter.

   The **Commissioning** screen is displayed.



3. In **Device Manager**, select **Found new devices**.

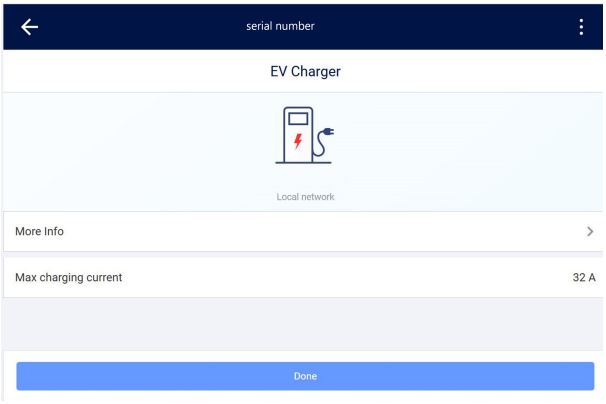
   The **Device Manager** screen is displayed.



4. Tick the EV charger's checkbox, and tap **Add Selected**.

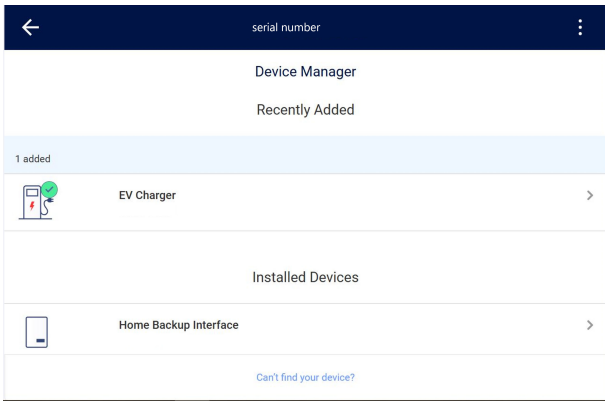
   Your EV charger is displayed.

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5. Tap **Done**.

   The **Device Manager** screen is displayed with the EV charger added. Your EV charger is now commissioned.



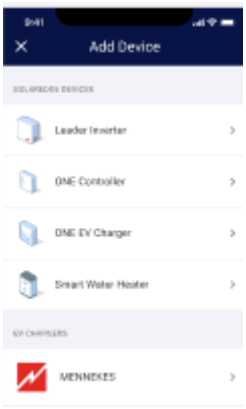
To configure the EV charger for a Wi-Fi connection:

> **NOTE**
>
> The QR code, Serial Number, and PIN code for connecting and configuring the EV charger to the inverter are displayed on the EV charger and the QIG. To download EV SetApp, click iOS or Android.

1. On your mobile phone, open **SolarEdge Go**.
2. Go to your EV charger site and select **Add Device**.

   The **Add Device** screen is displayed.

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3. On the **Add Device** screen, select **ONE EV Charger**.

   The in-app camera is displayed.



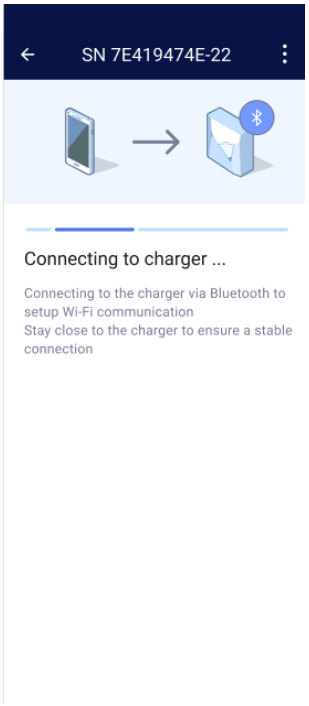
4. Scan the QR code located on the sticker on the QIG, or type the serial number and PIN code found on the cover of the QIG.

   The **Connect to charger** screen is displayed. The **Serial number** and **PIN code** fields are filled.

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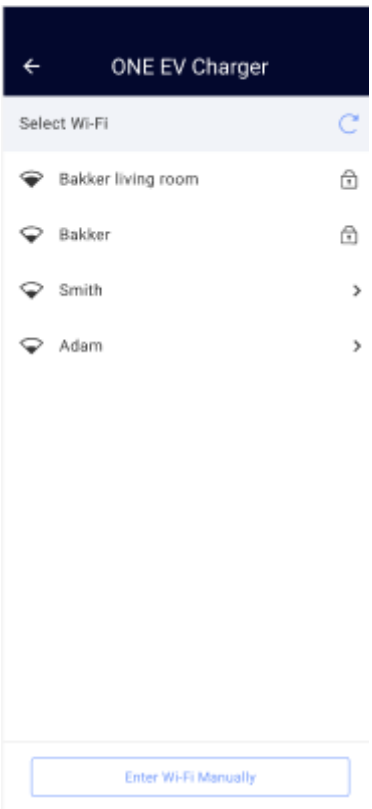


5. Your mobile is connecting to the EV charger, as displayed below.



6. The **Select Wi-Fi** screen is displayed.

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7. Select your Wi-Fi network.

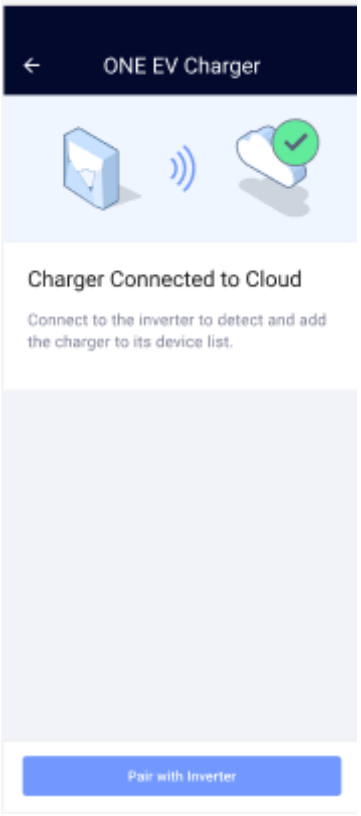
> **NOTE**
>
> Make sure your selected Wi-Fi network is on the same network as your inverter.

8. If your Wi-Fi network is not displayed, you can refresh the screen.

   Or

9. If the Wi-Fi network is not displayed, tap **Enter Wi-Fi Manually**.
10. Enter your Wi-Fi password.
11. Tap **Continue**. Your charger is connected to the cloud.

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12. Tap **Pair with Inverter**.

> **NOTE**
>
> Follow the steps to connect your EV charger to your inverter, as described in **To connect the EV charger to Ethernet** above.

> **NOTE**
>
> To reconfigure your EV charger, refer to Reconfigure the EV charger for residential and C&I installations [15]

Configure the EV charger for C&I installations

After installing and connecting the EV charger, turn the EV charger on to configure it for C&I using **EV SetApp**.

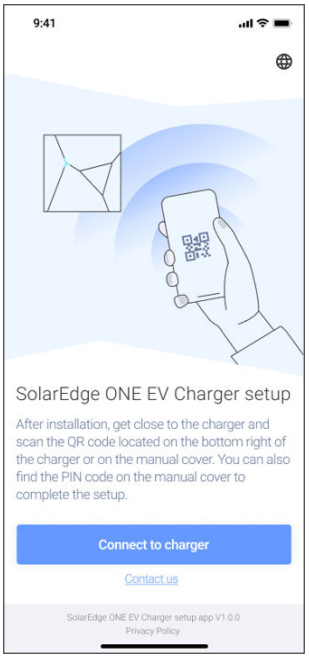
To configure the EV charger:

> **NOTE**
>
> The QR code, Serial Number, and PIN code for connecting and configuring the EV charger to the inverter are displayed on the EV charger and the QIG.

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1. On your mobile phone, open **EV SetApp**.

   The **SolarEdge ONE EV Charger setup** screen is displayed.



> **NOTE**
>
> To change languages, tap . By default, the language matches your mobile phone settings. On the **Language** screen, tap to return to the **SolarEdge ONE EV Charger setup** screen.

2. Tap **Connect to charger**.

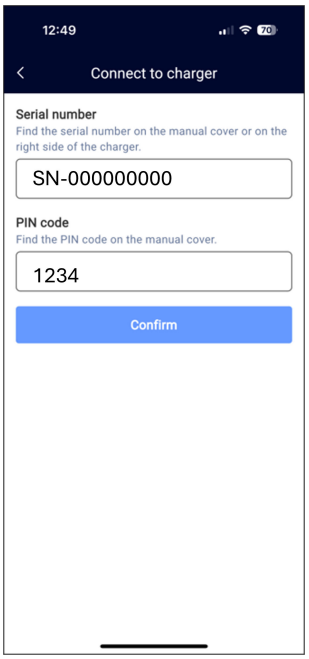
   The in-app camera is displayed.



3. Scan the QR code located on the sticker on the QIG, or type the serial number and PIN code found on the front of the QIG.

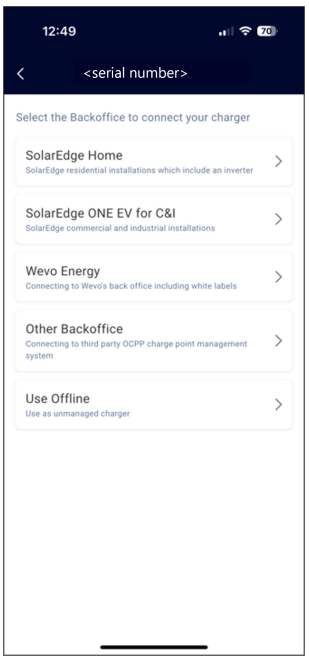
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The **Connect to charger** screen is displayed. The **Serial number** and **PIN code** fields are filled.



4. Tap **Confirm**.

   The <**Backoffice**> screen is displayed.



5. On the <**Backoffice**> screen, select from the following:

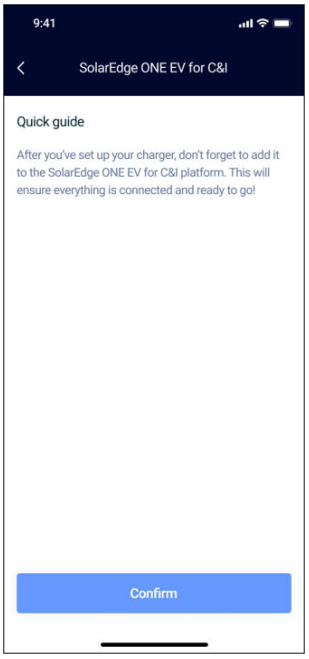
   - **SolarEdge ONE EV for C&I**: Connects to SolarEdge commercial and industrial installations
   - **Wevo Energy**: Connects to Wevo's back office, this includes white labels

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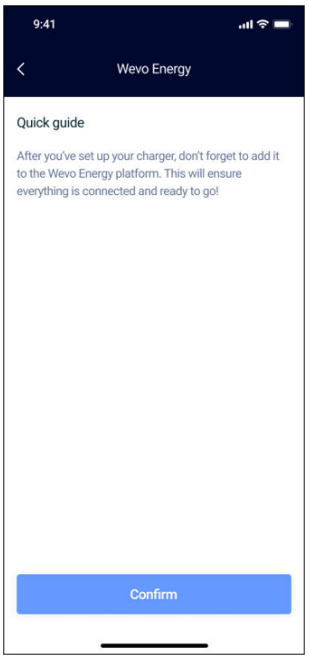
- **Other Backoffice**: Connects to a third-party OCPP based CPMS
- **Use Offline**: The EV charger is not managed by a CPMS

The following screens are displayed:

- For C&I installations, the **SolarEdge ONE EV for C&I** screen is displayed.



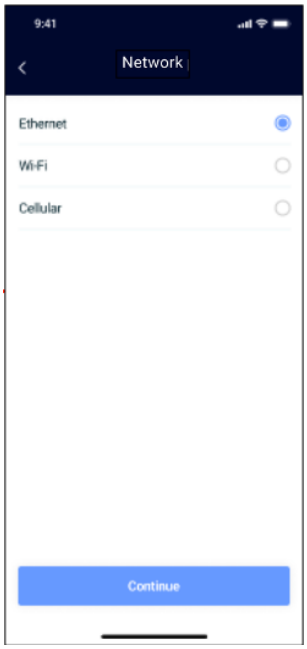
- If you selected Wevo, the **Wevo Energy** screen is displayed.



Read the **Quick guide** information on the screen, tap **Confirm**.

6. The **Network** screen is displayed.

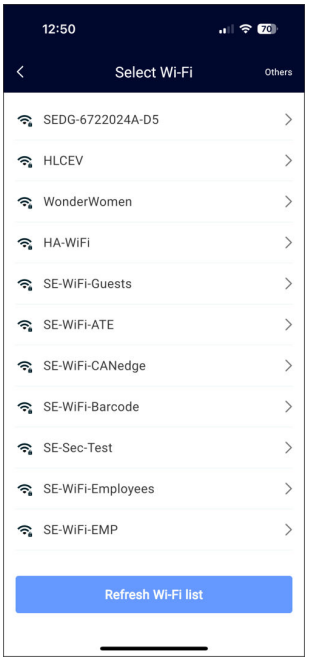
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7. Select your network, and tap **Continue**.

   If you choose Wi-Fi the **Select Wi-Fi** screen is displayed. If you choose Ethernet, follow the steps here [3].

> **NOTE**
>
> If you choose the Cellular option, ensure it is commissioned for **Cellular in the Backoffice**.



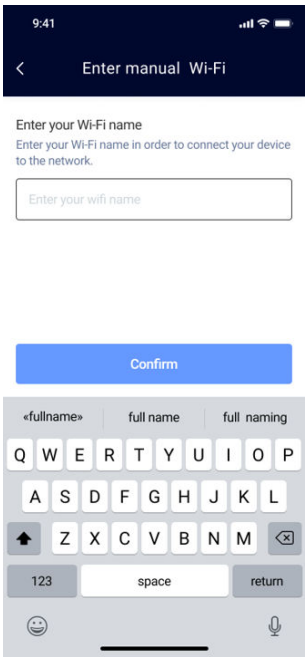
8. Select the Wi-Fi network. You can tap **Refresh Wi-Fi list** if your Wi-Fi network is not displayed.

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Or

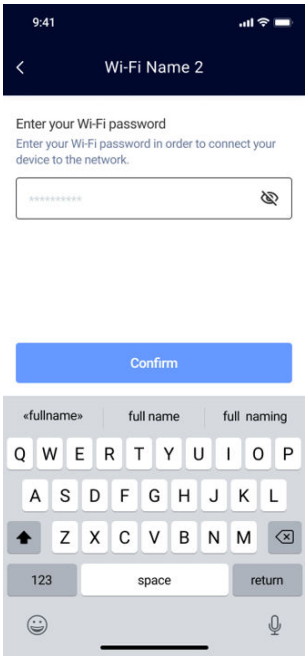
9. If the Wi-Fi network is not displayed, tap **Others**.

   The **Enter manual Wi-Fi** screen is displayed.



10. To connect your device, enter your Wi-Fi name, then tap **Confirm**.

    The **Wi-Fi Name 2** screen is displayed.



11. Enter your Wi-Fi password.
12. Tap **Confirm**.

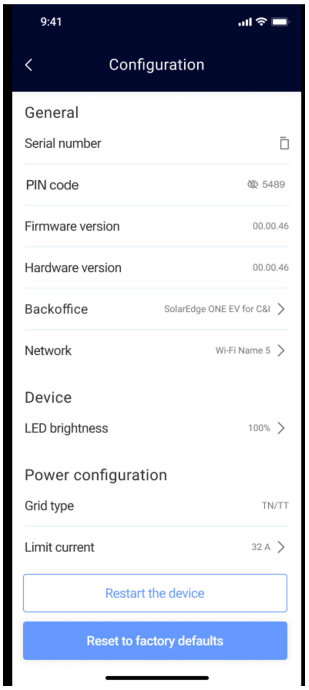
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Your device is connected to Wi-Fi. To reconfigure your EV charger, refer to Reconfigure the EV charger for residential and C&I installations [15].

Reconfigure the EV charger for residential and C&I installations

To reconfigure your EV charger:

1. On the **Configuration** screen, select from the following:



   a. **Backoffice**

> **NOTE**
>
> Backoffice can only be reconfigured in C&I configurations.

   b. **Network**

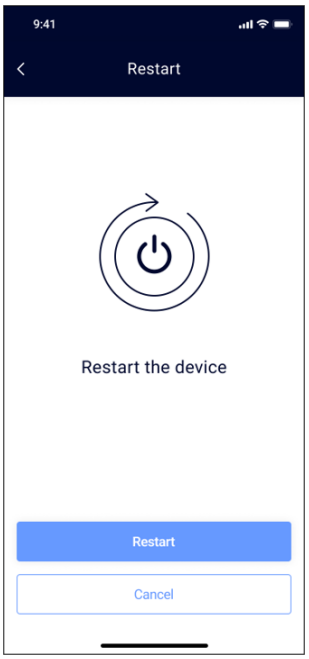
   c. **LED brightness**: The **LED brightness** screen is displayed. Change the setting. Tap **Save**. Your settings are saved.

   d. **Limit current**: The **Limit current** screen is displayed. Change the setting. Tap **Save**. Your settings are saved.

2. To restart your device, select **Restart the device**.

   The **Restart** screen is displayed.

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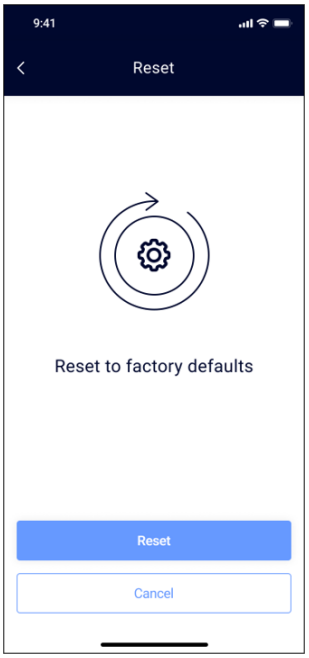


3. Tap **Restart**.

   You are automatically redirected to the **SolarEdge ONE EV Charger setup** screen.

4. To reset to factory default, select **Reset to factory default**.

   The **Reset** screen is displayed.



5. Tap **Reset**.

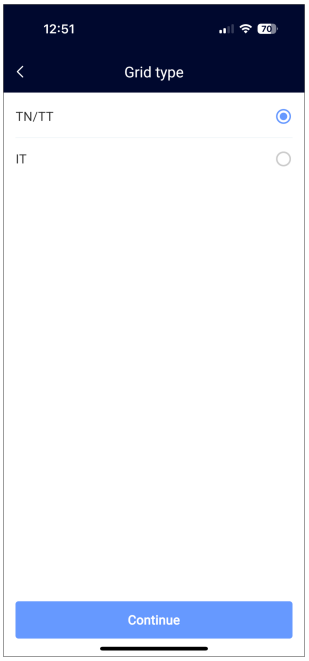
   You are automatically redirected to the **SolarEdge ONE EV Charger setup** screen.

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Change the grid type for residential and C&I installations

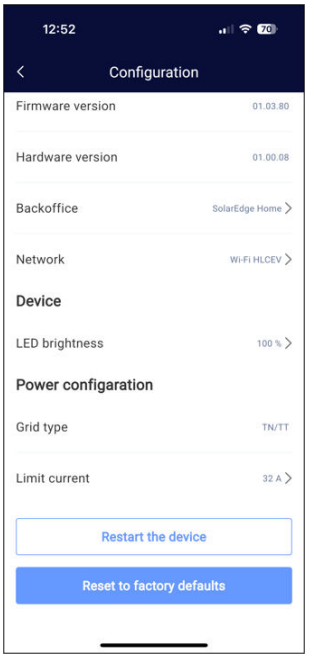
To change the grid type:

1. From the following **Grid type** options, select your grid type.



2. Tap **Continue**.

   Your **Grid type** is saved, and your EV charger is successfully configured. The **Configuration** screen is displayed.



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