IQ EV Charger 2 commissioning guide for electricians and homeowners

ENPHASE.

Applicable regions: EU

Contents

Corporate headquarters contact information

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https://enphase.com/contact/support

CE

Other information

Product information is subject to change without notice. All trademarks are recognized as the property of their respective owners.

User documentation is updated frequently; check the Enphase website for the latest information https://enphase.com/installers/resources/documentation.

To ensure optimal reliability and to meet warranty requirements, the Enphase microinverter must be installed according to the instructions in this manual. For warranty text, see https://enphase.com/installers/resources/warranty.

For Enphase patent information, see https://enphase.com/patents.

Note for third-party products

Any third-party manufacturer or importer of the products used to install or commission Enphase products shall comply with the applicable EU Directive(s) and requirements in the EEA (European Economic Area). It is the responsibility of the installer to confirm that all such products are labeled correctly and have the required compliant supporting documentation.

Manufacturer:

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United States of America, PH: +1 (707) 763-4784

Importer:

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Audience

This manual is intended for professional installers, maintenance personnel, and homeowners.

1. Introduction

Welcome to the future of smart EV charging. This guide provides step-by-step instructions to set up and connect an IQ EV Charger 2.

Before connecting the EV charger to the Enphase App, the IQ EV Charger 2 should be installed by a competent electrician per the instructions provided in the *IQ EV Charger 2 quick install guide* at https://enphase.com/installers/resources/documentation/ev-chargers.

Enphase Installers can connect the IQ EV Charger 2 using the Enphase Installer App. Electricians and homeowners must follow the steps in this document to connect the IQ EV Charger 2 to the Enphase App.
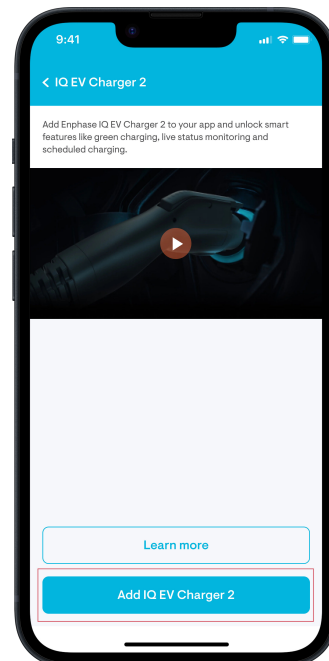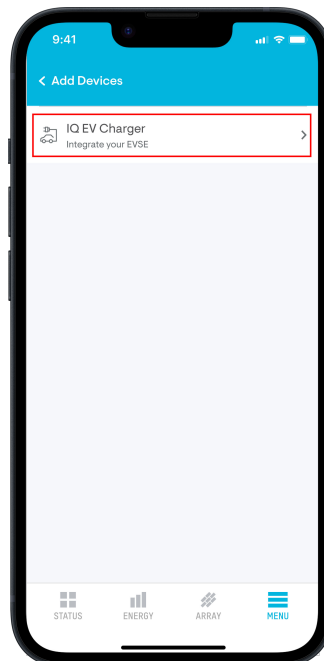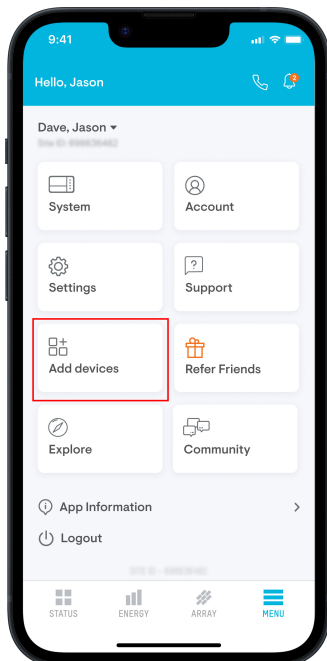
2. Connecting IQ EV Charger 2

1. Open the Enphase App: Download it for free from the App Store or Google Play.
2. Sign in or create an account:
    *   New users: Tap **New account** to create an Enphase Account. Follow the verification steps sent via email.
    *   Existing users: Log in to access the **STATUS** screen.
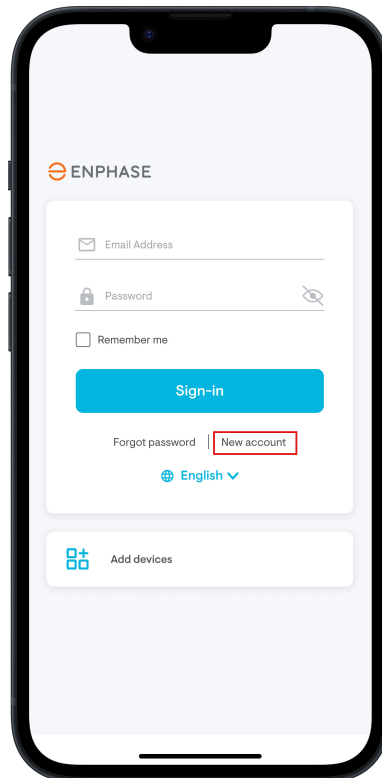
3. Add the IQ EV Charger 2:
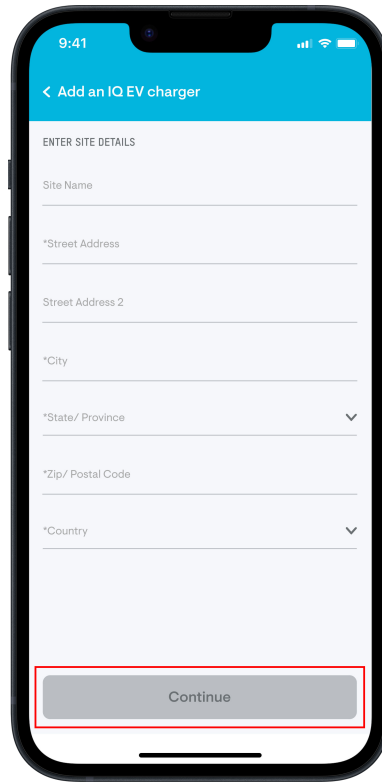   *   New users: Go to **IQ EV Charger 2 > Add IQ EV Charger 2**.
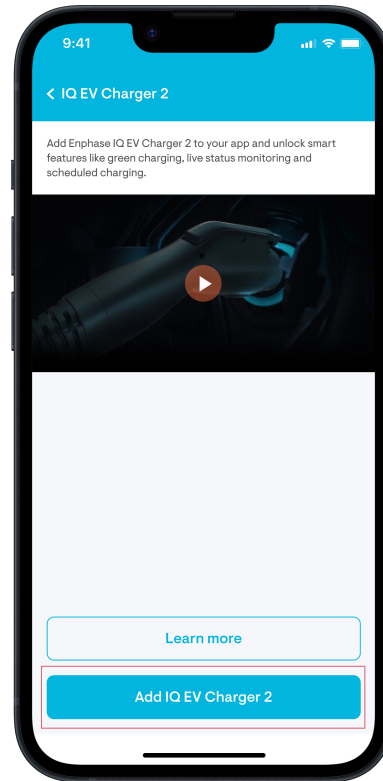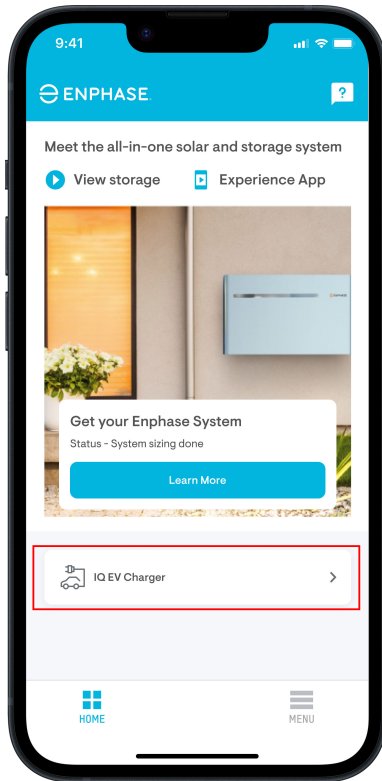
- Existing users: Go to **Menu** > **Add devices** > **IQ EV Charger 2** > **Add IQ EV Charger 2.**
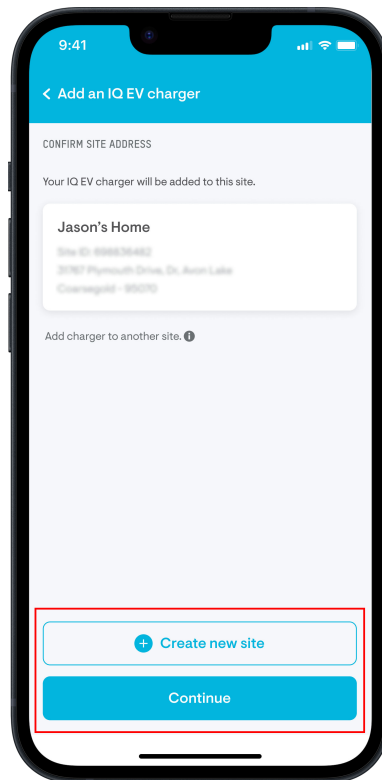

4. Set up the location:

- New users: Enter the site details and tap **Continue.**

- Existing users: Verify the site details and tap **Continue** or select **Create new site** if the IQ EV Charger 2 is installed at a different location.

5. Connecting via Wi-Fi and Bluetooth: Tap **Let's get started** and connect the charger via Wi-Fi and Bluetooth. Ensure camera, Bluetooth, and location permissions are enabled for the Enphase App to pair the charger.
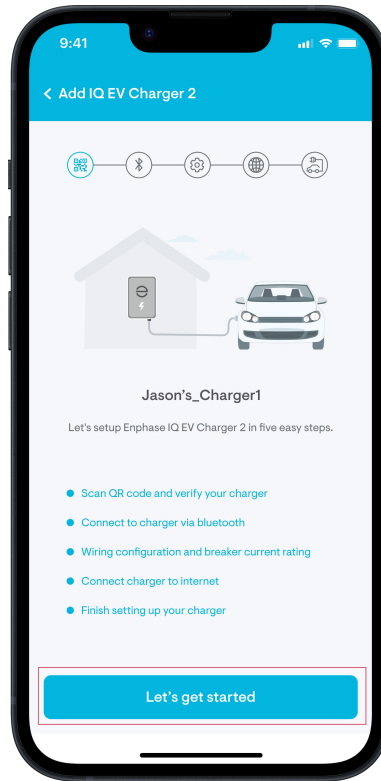

6. Scan the QR code: The QR code is located inside or on the bottom of the IQ EV Charger 2. Scan it or manually enter the serial number, and follow the on-screen instructions to complete the pairing process via Bluetooth. Once the charger is verified, close the face plate and finish mounting.

7. Electrical setup:

   ✓ **NOTE:** This section must be completed by a competent electrician. Follow local regulations for all wiring and safety requirements.

   a. Select the type of electrical grid from the drop-down and tap **Continue.**
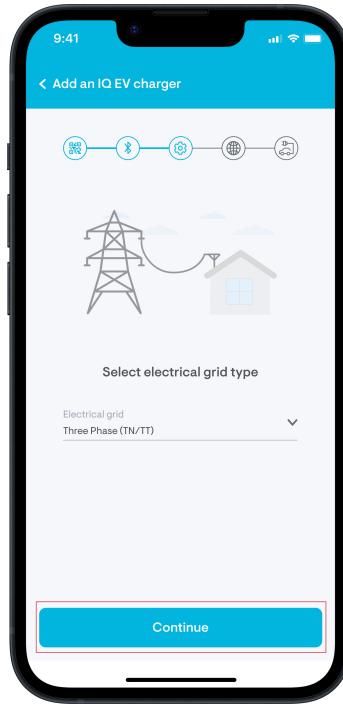
   b. Select the wiring configuration (single-phase or three-phase) of the site and map the phase configuration accurately to enable correct monitoring of IQ EV Charger 2. Tap **Continue.**

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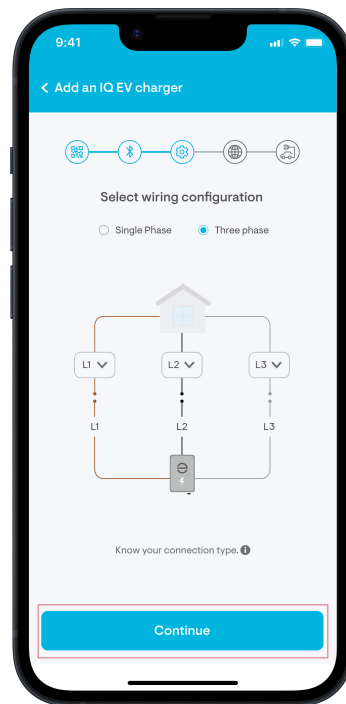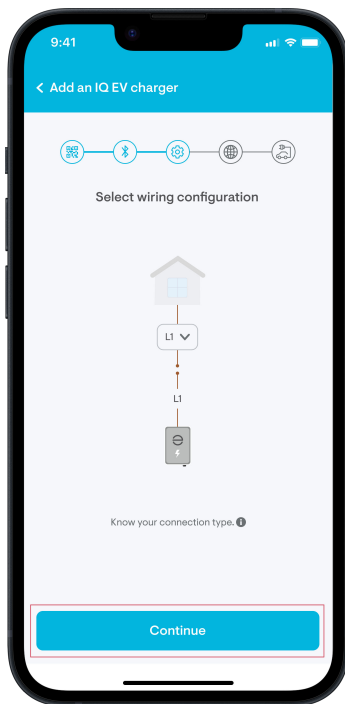
c. Set the maximum allowed current (6 A to 32 A per phase) and tap **Continue.** Select a maximum current such that the combination of EV charging and other on-site loads will not exceed the available supply (or the maximum contracted power, if applicable). The EV charger circuit breaker must also be selected according to this maximum current rating.
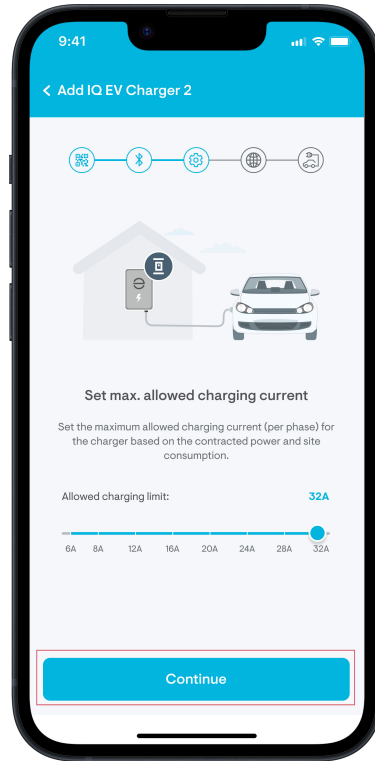
d. Confirm installation of Type A RCD to ensure protection against any leakage currents and tap **Continue.**
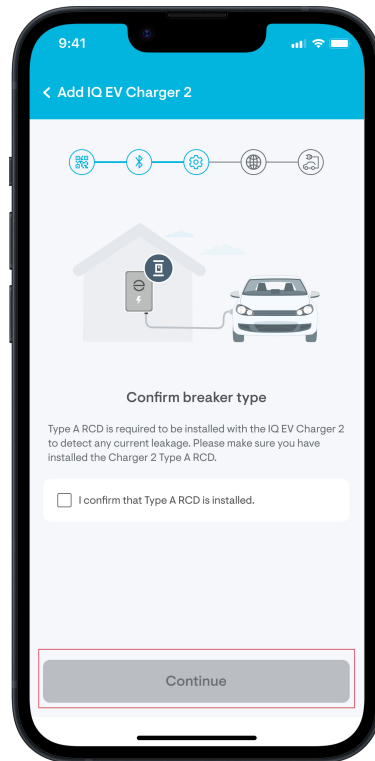
8. Internet connectivity: Follow the on-screen instructions to connect the IQ EV Charger 2 via Wi-Fi or Ethernet and finish pairing.
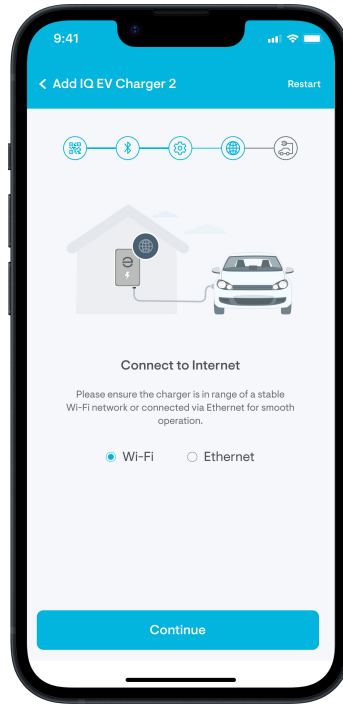
9. Confirm setup: Once the setup is complete and the confirmation message appears, tap **Done**. Your IQ EV Charger 2 is now ready for use.
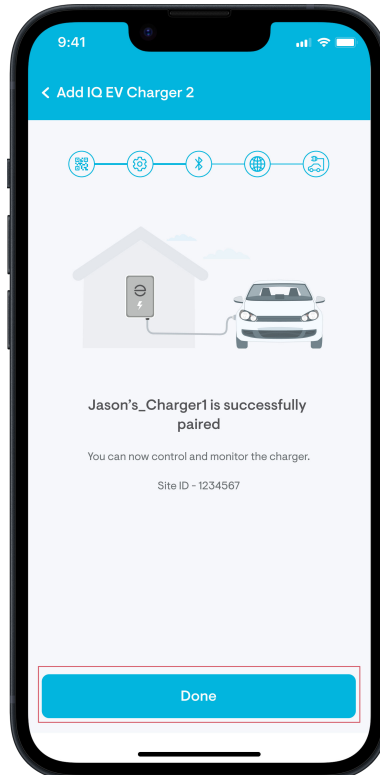
10. Add vehicle details (optional): Enter the electric vehicle's details for accurate charging summaries or skip and do this later at **Settings** > **EV Charger** > **EV Details**.

3. LED lights

The IQ EV Charger 2 has LED lights on the front face which can be used to understand the device status. The following table lists the legends.

LED colour	LED sequence	Device status
Green	Boomerang or pulsing pattern	Waiting for authorisation
Green	Shifting from the middle outwards	Charging authorised but not ready to charge
Green	Solid for 5 seconds	Activation or update is successful
Yellow	Boomerang or pulsing	Activation is in process
Red	Blinking for 5 seconds	Activation or update has failed
Red	Indefinite blinking	Fault or error
White	Solid	EV not connected
Yellow	Boomerang or pulsing	Activation in process
Magenta	Left to right laser	OTA update in progress
Blue	Solid	Ready to charge
Blue	Fading in and out	Charging is in progress

4. Standalone vs. integrated system setup

- Integrated with an Enphase system: Configure for maximum savings and grid independence (*Enphase App setup guide for IQ EV Charger 2 integrated system* at https://enphase.com/installers/resources/documentation/ev-chargers).
- Standalone charger: Maximise savings on electricity bills (*Enphase App setup guide for IQ EV Charger 2 standalone system* at https://enphase.com/installers/resources/documentation/ev-chargers).

For more details, visit https://enphase.com for a quick reminder of the charger's capabilities or visit the support page at https://enphase.com/contact/support for FAQs or troubleshooting assistance.

5. Revision history

Revision	Date	Description
USG-00070-2.0	December 2024	Step 3 in the "Connecting IQ EV Charger 2" is corrected.
USG-00070-1.0	November 2024	Initial release.