

IQ EV Charger 2 commissioning guide for electricians and homeowners

Applicable regions: Europe

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Contents

1	Introduction.....	5
2	Connecting IQ EV Charger 2.....	5
3	LED lights.....	13
4	Standalone vs. integrated system setup.....	13
5	Revision history.....	14

Corporate headquarters contact information

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<https://enphase.com/contact/support>.



Other information

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

User documentation is updated frequently; check the Enphase website for the latest information

<https://enphase.com/en-gb/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/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.

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Compliance with EU Directives

This product complies with the following EU Directives and can be used in the European Union without any restrictions.

- Electromagnetic Compatibility (EMC) directive 2014/30/EU
- Low Voltage Directive (LVD) 2014/35/EU
- Restriction of Hazardous Substances (RoHS) 2011/65/EU

The full text of the EU Declaration of Conformity (DoC) is available at the following internet address:
<https://enphase.com/installers/resources/documentation>.

Audience

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

1. Introduction

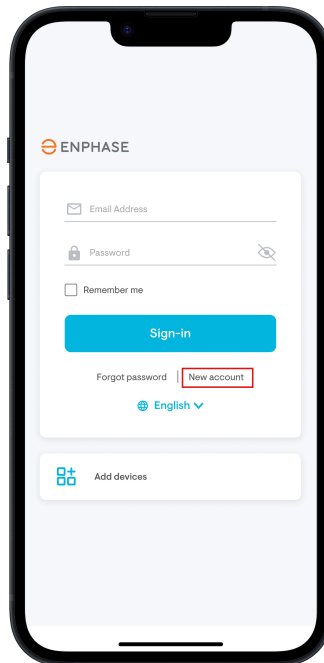
Welcome to the future of smart EV charging. This guide provides step-by-step instructions to set up and connect an IQ EV Charger 2.

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/en-gb/installers/resources/documentation/ev-chargers> <https://enphase.com/en-au/installers/resources/documentation/ev-chargers>.

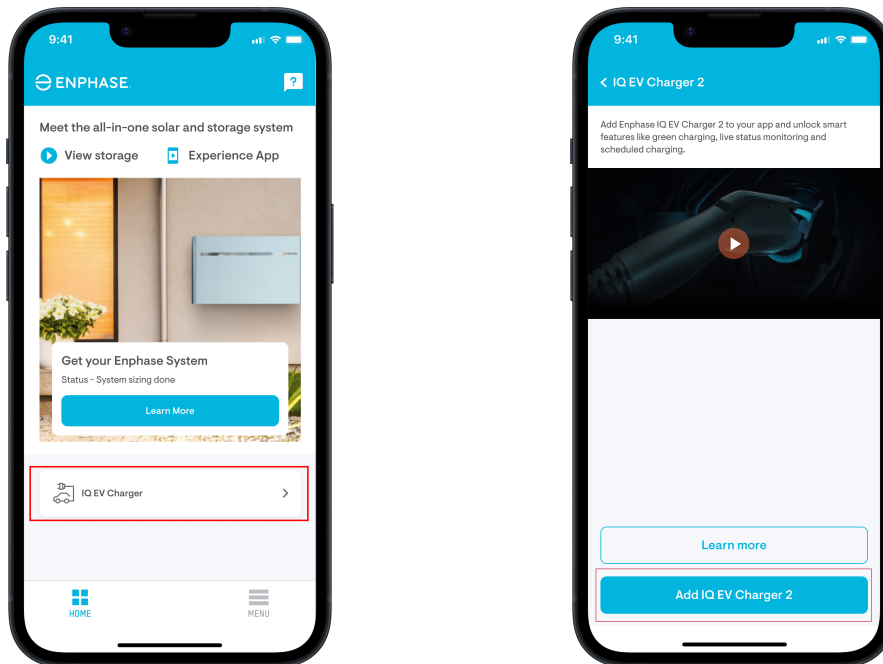
Enphase installers can also connect the IQ EV Charger 2 using the Enphase Installer App. Electricians and homeowners must follow the steps in this document to connect the IQ EV Charger 2 to the Enphase App.

2. Connecting IQ EV Charger 2

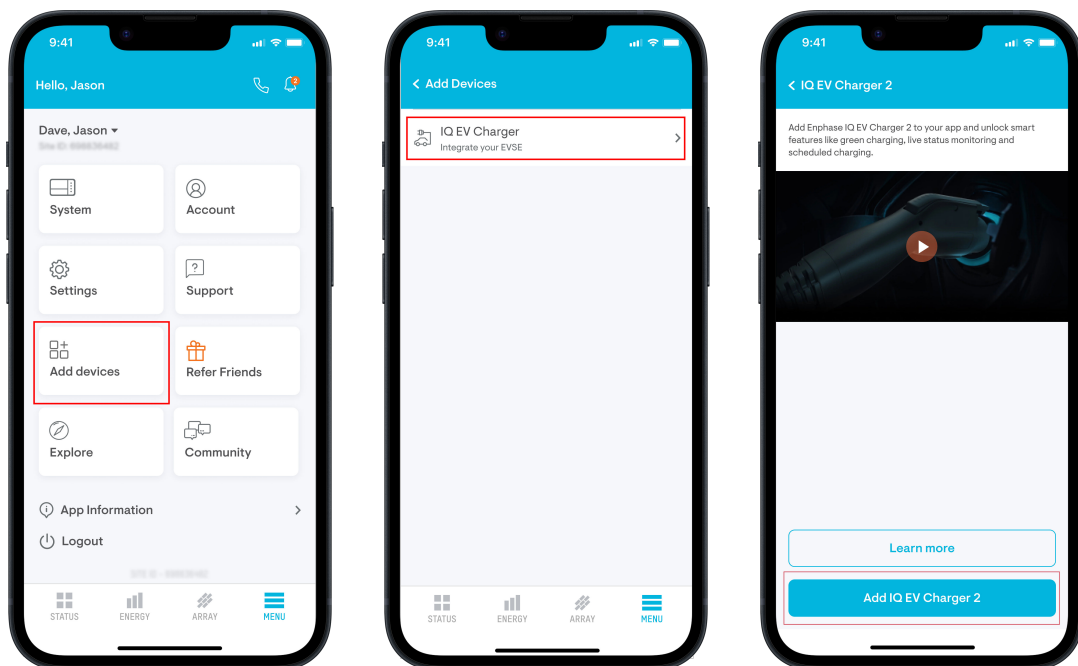
1. Open the Enphase App: Download it for free from the App Store or Google Play.
2. Sign in or create an account:
 - New users: Tap **New account** to create an Enphase Account. Follow the verification steps sent via email.
 - Existing users: Log in to access the **STATUS** screen.



3. Add the IQ EV Charger 2:
 - New users: Go to **IQ EV Charger > Add IQ EV Charger 2**.



- Existing users: Go to **Menu** > **Add devices** > **IQ EV Charger 2** > **Add IQ EV Charger**.



4. Set up the location:

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

9:41

< Add an IQ EV charger

ENTER SITE DETAILS

Site Name

*Street Address

Street Address 2

*City

*State/ Province

*Zip/ Postal Code

*Country

Continue

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

9:41

< Add an IQ EV charger

CONFIRM SITE ADDRESS

Your IQ EV charger will be added to this site.

Jason's Home

Site ID: 000036482

20767 Plymouth Drive, Dr. Aaron Laker

Channahon - 61023

Add charger to another site: ⓘ

+ Create new site

Continue

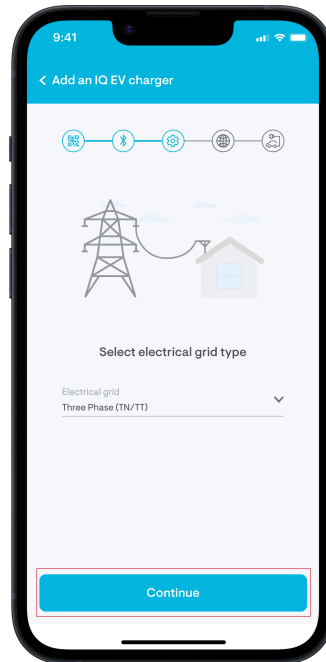
- The screenshot shows the 'Add IQ EV Charger 2' screen in a mobile app. At the top, the status bar shows the time 9:41, signal strength, and battery level. The title bar is blue with the text 'Add IQ EV Charger 2'. Below the title bar is a horizontal sequence of five circular icons: a QR code, a Bluetooth symbol, a gear (settings), a globe (Wi-Fi), and a car with a plug. The main content area features a light blue background with a white house icon on the left and a white car icon on the right. A grey charging station is mounted on the house, and a black cable connects it to the car. Below the illustration, the text 'Jason's_Charger1' is displayed. Underneath, a paragraph reads: 'Let's setup Enphase IQ EV Charger 2 in five easy steps.' This is followed by a list of five steps, each preceded by a blue circular bullet point: 1. Scan QR code and verify your charger, 2. Connect to charger via bluetooth, 3. Wiring configuration and breaker current rating, 4. Connect charger to internet, and 5. Finish setting up your charger. At the bottom, there is a large blue button with the text 'Let's get started' in white, which is highlighted by a red rectangular border.

-
- The back of the solar panel is shown, featuring a black mounting bracket with multiple screws. A central label contains the following information:
- Model: SPS-100W-12V
 - Power: 100W
 - Voltage: 12V
 - Current: 8.33A
 - Dimensions: 180mm x 180mm x 20mm
 - Weight: 0.5kg
 - Manufacturer: [Redacted]
 - Serial Number: [Redacted]
 - QR Code: [Redacted]

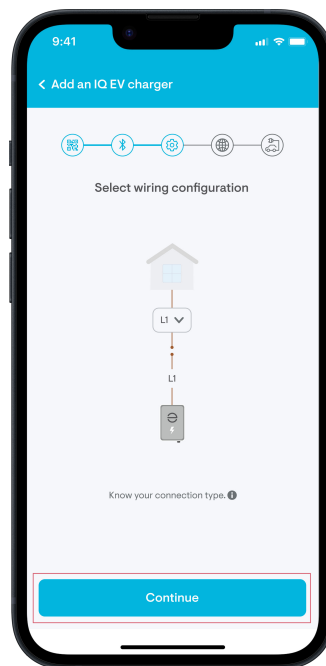
- February 2026
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 **NOTE:** This section must be completed by a competent electrician. Follow local regulations for all wiring and safety requirements.

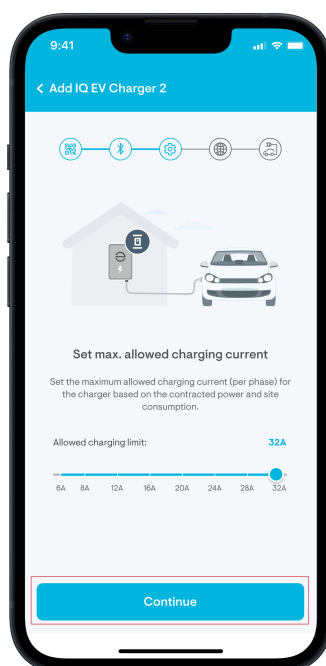
- a. Select the type of electrical grid from the drop-down and tap **Continue**.



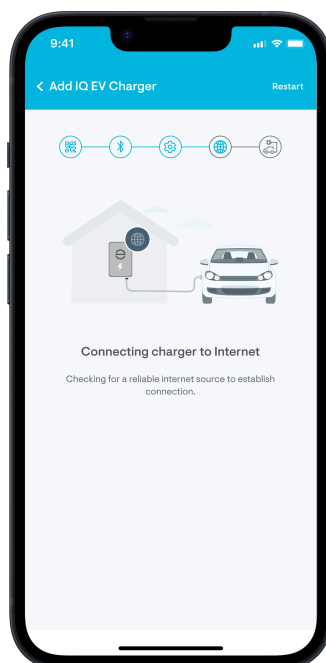
- b. Map the IQ EV Charger 2 to the site's corresponding phase to enable correct monitoring. Tap **Continue**.



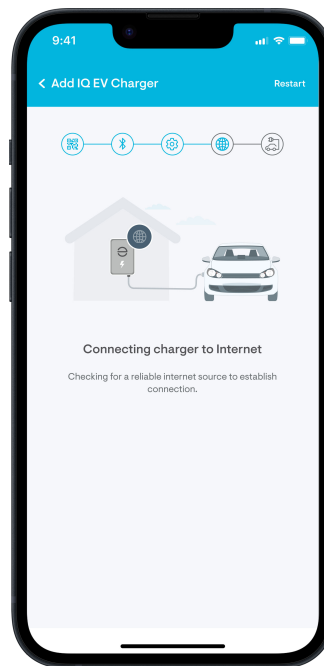
- c. Set the maximum allowed current (6 A to 32 A per phase) and tap **Continue**. Select a maximum current such that the combination of EV charging and other on-site loads will not exceed the available supply (or the maximum contracted power, if applicable). The EV charger circuit breaker must also be selected according to this maximum current rating.



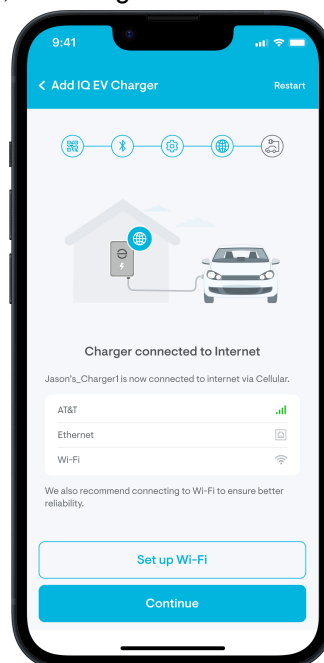
- d. Confirm installation of Type A RCD to ensure protection against any leakage currents and tap **Continue**.



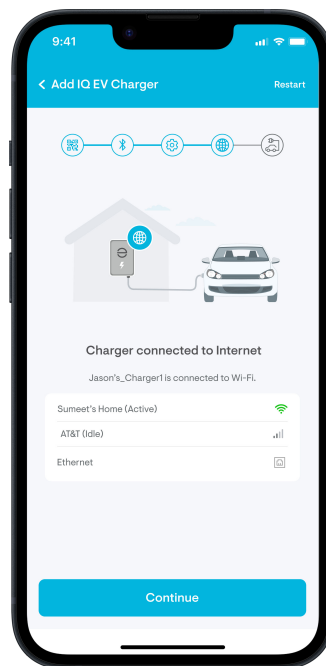
8. Internet connectivity: Follow the on-screen instructions to connect the IQ EV Charger 2 via Wi-Fi or Ethernet or cellular/LTE and finish pairing.



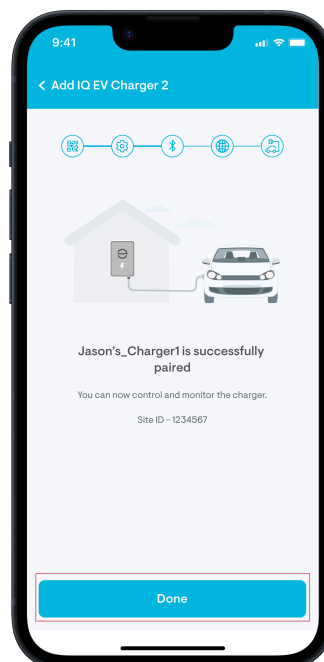
- If a SIM card is present and active, the charger will first attempt to connect using cellular/LTE.



- If those options are unavailable or fail, the charger will automatically try connecting via Wi-Fi or Ethernet.



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
Red	Indefinite blinking, alternating between odd and even	PEN fault detected (UK only)
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/en-gb/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/en-gb/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-00070-3.0	February 2026	Editorial updates.
USG-00070-2.0	November 2025	- Updated the internet connectivity options. - Step 3 in the “Connecting IQ EV Charger 2” is corrected.
USG-00070-1.0	November 2024	Initial release.