

# IQ EV Charger 2 commissioning guide for electricians and homeowners

Applicable regions: EU

© 2024 Enphase Energy. All rights reserved. Enphase, the e and CC logos, IQ, and certain other marks listed at <u>https://enphase.com/trademark-usage-guidelines</u> are trademarks of Enphase Energy, Inc. in the U.S. and other countries. Data subject to change.

## Contents

1	Introduction	4
2	Connecting IQ EV Charger 2	4
3	LED lights	10
4	Standalone vs. integrated system setup	11
5	Revision history	11

## Corporate headquarters contact information

#### Enphase Energy, Inc.

47281 Bayside Pkwy, Fremont, CA 94538, United States of America, PH: +1 (707) 763-4784 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 <a href="https://enphase.com/installers/resources/warranty">https://enphase.com/installers/resources/warranty</a>.

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:

Enphase Energy Inc., 47281 Bayside Pkwy., Fremont, CA, 94538 United States of America, PH: +1 (707) 763-4784

#### Importer:

Enphase Energy NL B.V., Het Zuiderkruis 65, 5215MV, 's-Hertogenbosch, The Netherlands, PH: +3173 3035859

#### 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.

	•		
⊖ enph	ASE		
🗹 Err	ail Address		
Pa Pa	ssword		$\otimes$
Rem	ember me		
	Sigi	n-in	
F	orgot password	New account	]
85 *	dd devices		
	_		

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



	?	< IQ EV Charge	er 2
Meet the all-in-one solar and st	torage system erience App	Add Enphase IQ EV C features like green ch scheduled charging.	harger 2 to your app and unloc arging, live status monitoring a
Cet your Enphase System Status - System sizing done Learn More			
P [Q EV Charger	>		
			Learn more
	-	Ac	id IO FV Charger 2

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

9:41		9:41	•	al 🗢 🖿	9:41 at 🗢 🗕
Hello, Jason	S 🔅	< Add Dev			< IQ EV Charger 2
Dave, Jason 👻		IQ EV	Charger ® your EVSE	>	Add Enphase IQ EV Charger 2 to your app and unlock smart features like green charging, live status monitoring and scheduled charging.
System	(2) Account				
िं) Settings	? Support				
Add devices	Refer Friends				
Ø Explore	Community				
(i) App Information	>				
( <sup>1</sup> ) Logout					Learn more
STATUS ENERGY	ARRAY MENU	STATUS	ENERGY ARRAY	MENU	Add IQ EV Charger 2
<b>L</b> —					

- 4. Set up the location:
  - New users: Enter the site details and tap **Continue**.



Name		
reet Address		
eet Address 2		
ty		
ate/ Province		~
o/ Postal Code		
puntry		~

• 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:

 $\bigcirc$ 

**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.

9:41	.0		al 🗢 🗖
< Add an I	Q EV charger		
() () () () () () () () () () () () () (			
		7	
	Select electri	ical grid type	
Electrica Three Ph	l grid ase (TN/TT)		~
	Cont	inue	

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**.





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.

		-*	-(	<b>@</b> —	-@	)(	<b>a</b>
		Ð					
		Ę					
	_						
Set th	Set n	nax. al imum all	l <b>lowe</b> d	d char	ging c	<b>urren</b> (per pha	i <b>t</b> ase) fo
Set th	Set n ne max e charç	nax. al imum all ger base	owed cl d on the consi	<b>d char</b> harging e contra umption	ging c current cted poi	per pha	i <b>t</b> ase) fo site
Set th th Allov	Set n ne max e charç ved ch	nax. al imum all ger base arging lii	owed cl d on the consi mit:	d char harging e contra umption	ging c current i cted por	per pha	nt ase) fo site 32A
Set th th Allow 6A	Set n ne max e charg wed ch	nax. al imum all ger base arging lin 12A	llowed cl d on the consi mit: 16A	d char harging e contra umption	ging c current t cted poor	(per pha wer and 28A	nt ase) fo site 32A 
Set th th Allow 6A	Set n ne max e charç ved ch	nax. al imum all ger base arging lii 12A	owed cl d on the consi mit: 16A	d char harging e contra umption 20A	ging c current cted por 24A	(per pha wer and 28A	t ase) fo site 32A - 32A
Set th th Allow 6A	Set n ne max e charç ved ch 8A	nax. al imum all ger base arging li 12A	llowed cl d on the const mit: 16A	d char harging e contra umption 204	ging c current cted por 24A	(per pha wer and 28A	t ase) fo site 324 - 324

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 <a href="https://enphase.com/installers/resources/documentation/ev-chargers">https://enphase.com/installers/resources/documentation/ev-chargers</a>).
- Standalone charger: Maximise savings on electricity bills (*Enphase App setup guide for IQ EV Charger 2 standalone system* at <a href="https://enphase.com/installers/resources/documentation/ev-chargers">https://enphase.com/installers/resources/documentation/ev-chargers</a>).

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