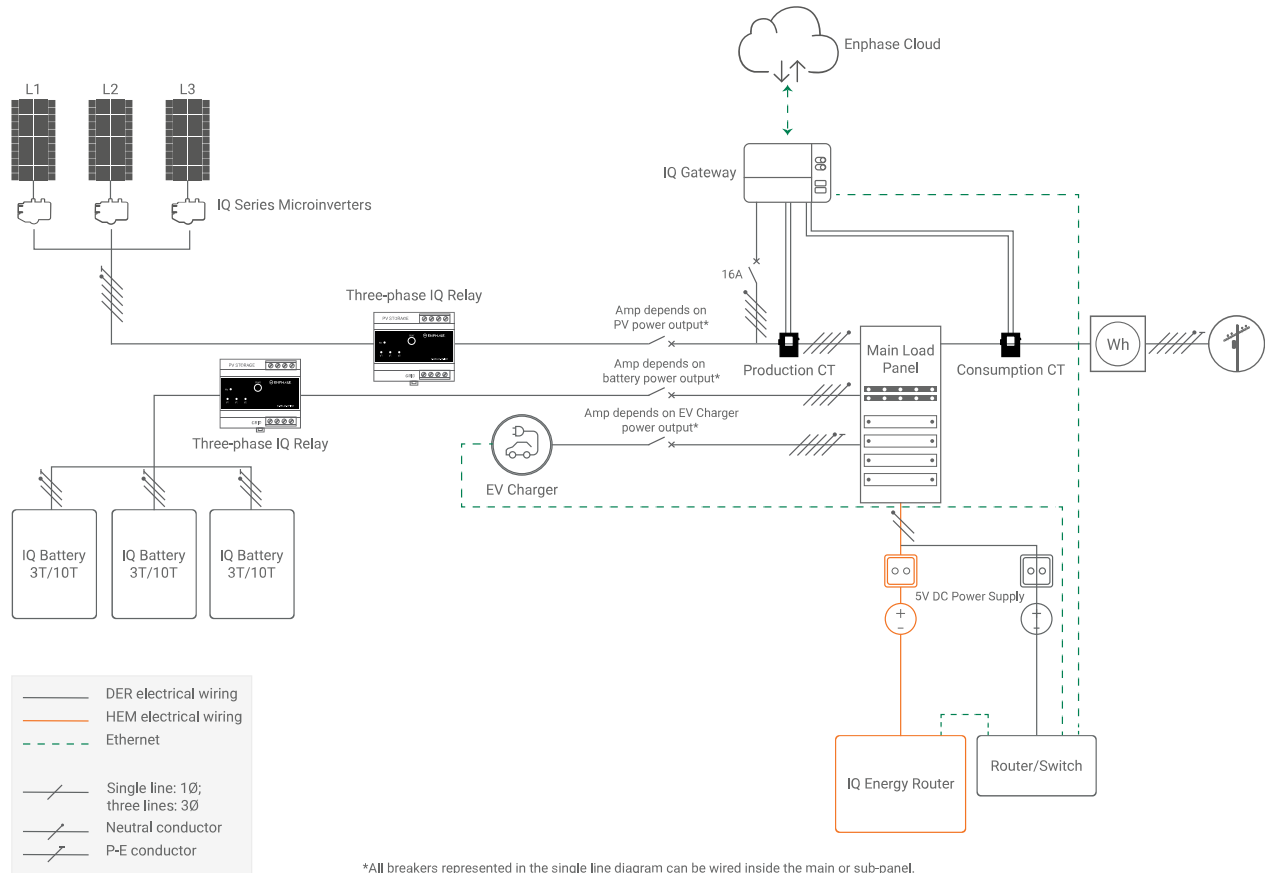


# Installing Enphase IQ Energy Router

The IQ Energy Router is an integral component of the Enphase Home Energy Management solution. The IQ Energy Router integrates Enphase solar and battery storage systems with EV chargers and other devices to maximize self-consumption for the overall site and minimize costs. Installers should use the Enphase Installer App and the Enphase Installer Portal to install and maintain the system. System owners can use the Enphase App to monitor energy and control the system.

To install the IQ Energy Router, read and follow all warnings and instructions in this guide. Safety warnings are listed at the end of this guide. If you do not fully understand any of the concepts, terminology, or hazards outlined in these instructions, refer installation to a qualified electrician or installer. All installations must comply with national and local electrical codes. Professional installation is recommended.



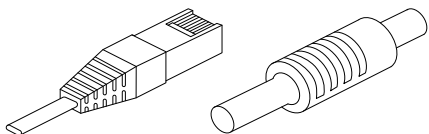
## SINGLE LINE DIAGRAM

### What's in the box

The box contains the IQ Energy Router, CAT 6 Ethernet cable with RJ45 jack at either end, and DC power supply cable.



IQ Energy Router

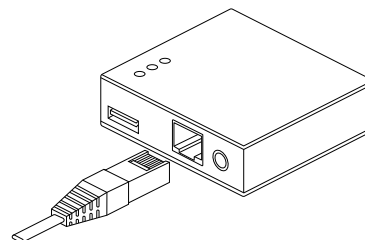


CAT 6 Ethernet cable

DC power supply cable

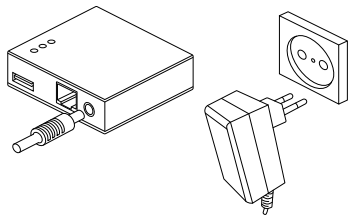
### 1 Setting up the IQ Energy Router

- Location:** Set up the IQ Energy Router close to the internet router or an Ethernet switch connected to the internet router.
- Network connectivity:** Plug one end of the RJ45 Ethernet cable to the IQ Energy Router and the other end into the Ethernet port of your internet router or Ethernet switch.



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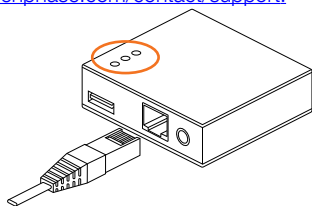
- C) **Powering the IQ Energy Router:** Connect the IQ Energy Router to an electrical outlet using the provided power cable.



- D) **Monitoring IQ Energy Router:** Wait for the IQ Energy Router to boot up. This can take a few minutes. A solid green light indicates that the IQ Energy Router is ready.

Monitor the LED pattern of the IQ Energy Router:

- Flashing green: The IQ Energy Router is booting up
- Solid green: Normal operation
- Rapid flashing red: The IQ Energy Router is experiencing issues and is attempting to re-establish connectivity with both internet and LAN. If the issue persists, contact customer support at <https://enphase.com/contact/support>.



## 2 Configure EV charger for use with IQ Energy Router

Now that the IQ Energy Router is set up, scan the following QR code or click [documentation](#) for instructions to configure the supported EV chargers for establishing connectivity.



## IQ Energy Router Specifications

Enviromental specification, standards, and certification	
Temperature range	10°C to 40°C
Directive	RoHS, WEEE, REACH
Flammability	UL94
EMC	EN 55032: 2015
Electrical safety	EN IEC 62368-1:2020+A11: 2020
Compliance	CE
Max. radiated power	<10 dBm
Frequency	2405 – 2480 MHz
Electrical specification	
Input voltage	5 VDC
Input current	1 A
Consumption	5 W
Mechanical specification	
Weight	114 g
Height	27.3 mm
Width	96.1 mm
Length	96.6 mm
DC power cable	USB A to 5 V DC jack cable (2.5 mm x 5.5 mm barrel connector)
EU power supply - voltage	100 V– 200 V@ 50 Hz – 60 Hz
EU power supply - current	0.2 A
Ethernet port	RJ-45
Colour	White
Packaging specification	
Weight	270 g
Height	72 mm
Width	115 mm
Length	117 mm
Included in box	EU power supply, USB A to jack cable (2.5 mm x 5.5 mm DC plug), CAT 6 Ethernet cable with RJ45 jack at either end

## SAFETY

### Safety and Advisory Symbols

	DANGER: This indicates a hazardous situation, which if not avoided, will result in death or serious injury.
	WARNING: This indicates a situation where failure to follow instructions may be a safety hazard or cause equipment malfunction. Use extreme caution and follow instructions carefully.
	NOTE: This indicates information particularly important for optimal system operation. Follow instructions carefully.

### Safety Instructions

	DANGER: Risk of electric shock. Risk of fire. Do not attempt to repair the IQ Energy Router. It contains no user-serviceable parts. Tampering with or dismantling the IQ Energy Router will void the warranty. If the equipment fails, contact Enphase Customer Support ( <a href="https://enphase.com/contact/support">https://enphase.com/contact/support</a> ) for assistance or replacement equipment.
	DANGER: Risk of electric shock. Do not use IQ Energy Router in a manner not specified by the manufacturer. Doing so may cause death or injury to persons, or damage to equipment.
	DANGER: Risk of electric shock. Risk of fire. Only qualified personnel should troubleshoot, install, or add parts to the IQ Energy Router.
	DANGER: Risk of electric shock. All sources to equipment being serviced must be disconnected external to the device. In particular, the storage system may energize conductors, so storage circuits must ALWAYS be isolated via circuit breaker or disconnected before working on any portion of the system.
	DANGER: Risk of electric shock. Be aware that installation of this equipment includes risk of electric shock.
	DANGER: Risk of electric shock. Risk of fire. Only use electrical system components approved for wet locations.
	DANGER: Risk of electric shock. Risk of fire. Ensure that all wiring is correct and that none of the wires are pinched or damaged.
	DANGER: Risk of electric shock. Risk of fire. Do not work alone. Someone should be in the range of your voice or close enough to come to your aid when you work with or near electrical equipment. Remove rings, bracelets, necklaces, watches etc. when working with batteries, photovoltaic modules or other electrical equipment.
	WARNING: Before installing or using the IQ Energy Router, read all instructions and cautionary markings in the technical description and on the components.
	NOTE: Using unapproved attachments or accessories could result in damage or injury.
	NOTE: Perform all electrical installations in accordance with all national and local electrical codes.

### Environmental Protection

ELECTRONIC DEVICE: DO NOT THROW AWAY. Waste electrical products should not be disposed of with household waste. Proper disposal is required. Refer to your local codes for disposal requirements.



Compliance with EU Directives

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

- Radio Equipment Directive (RED): 2014/53/EU
- Restriction of Hazardous Substances (RoHS): 2011/65/EU

The full text of the EU declaration of conformity is available at the following internet address:

<https://link.enphase.com/en-us/hem-documentation>



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Revision history

REVISION	DATE	DESCRIPTION
140-00285-02	May 2023	Initial release
Previous releases		

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