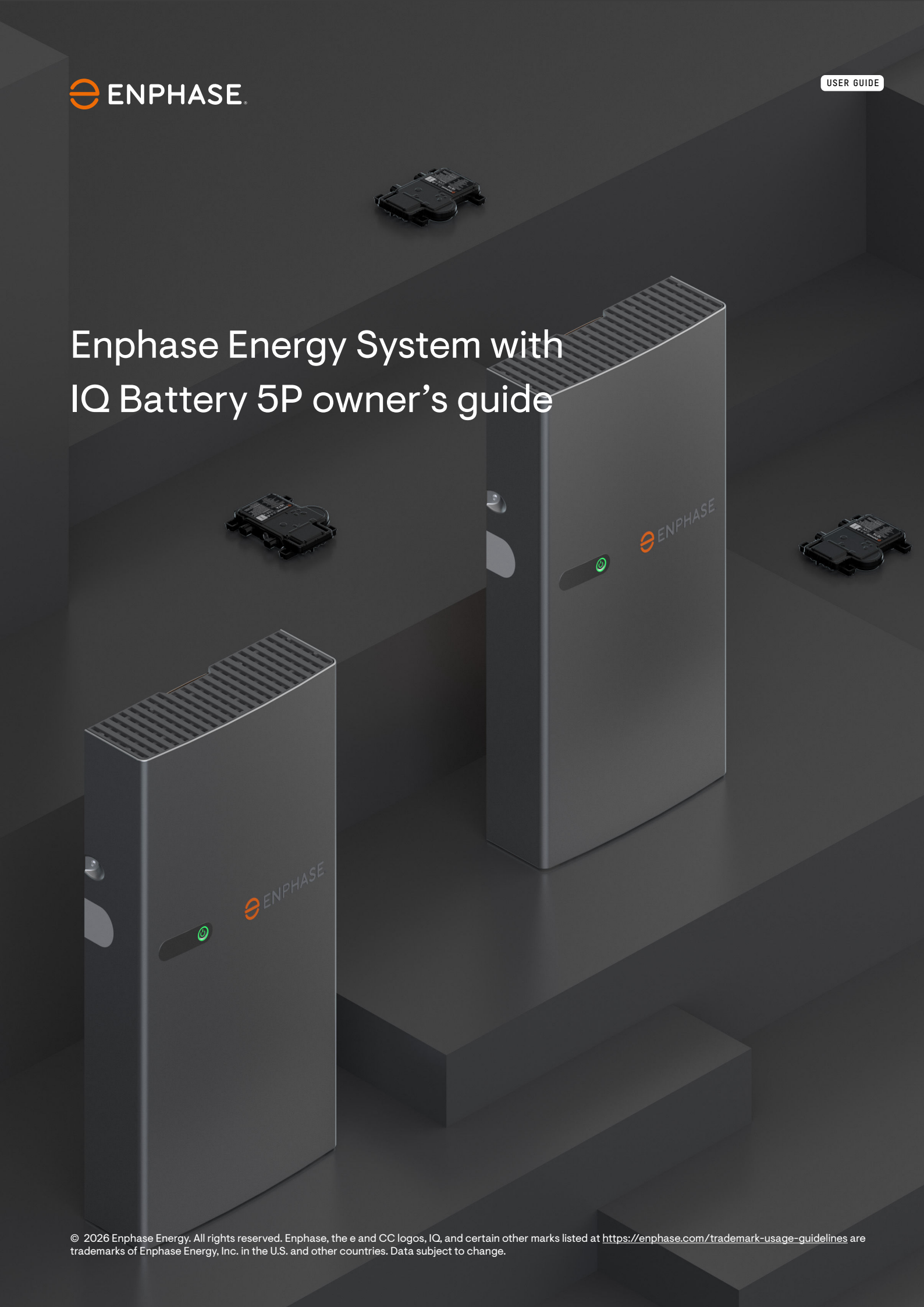
ENPHASE

USER GUIDE

Enphase Energy System with IQ Battery 5P owner's guide



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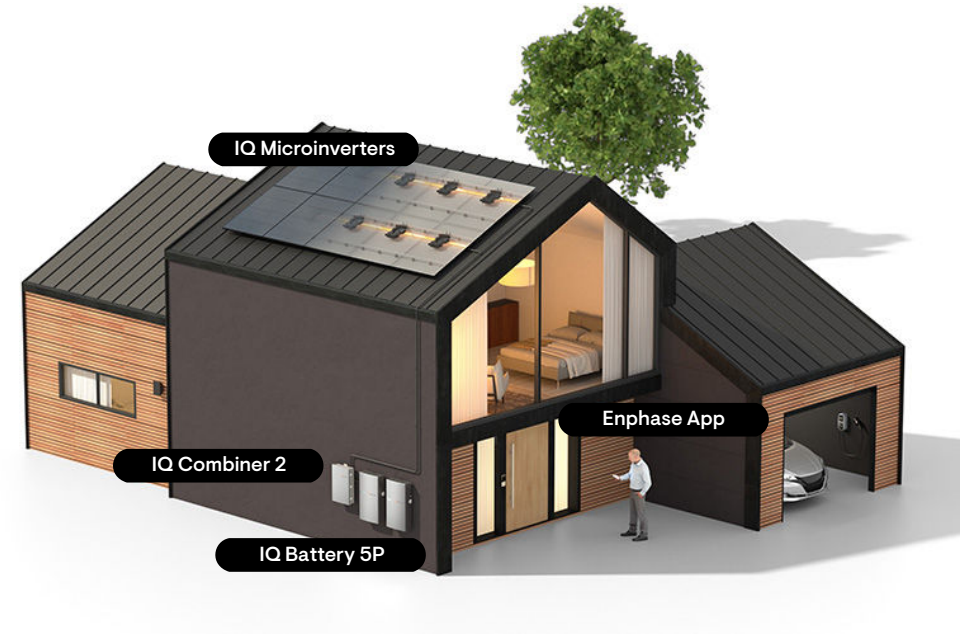
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1. Enphase Energy System

1.1 Backup system



1.2 Grid-tied system



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2. System information

2.1 System components



IQ Battery 5P or IQ Battery 5P with FlexPhase

IQ Batteries store energy and dispatch it when you need it. They are built on a distributed architecture platform. This modular design means you can quickly and easily expand your system as your needs grow.



IQ Series Microinverters

Under each solar panel lies an Enphase microinverter that converts DC power generated by the panel into AC energy your home can use.



Enphase App

The Enphase App is a mobile app where you can monitor and control your system status from wherever you are and know exactly how much energy your solar system is producing. You can generate reports on energy production by day, week, month, or year.

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2.2 Grid-tied components



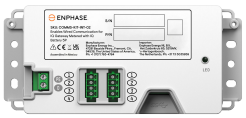
IQ Gateway

The brain of the Enphase Energy System is the Enphase IQ Gateway. The IQ Gateway collects production and performance data from IQ Series Microinverters and IQ Battery 5P, manages your system, and communicates with the Enphase Cloud.



IQ Relay

The IQ Relay is a grid monitoring device that protects microinverters and batteries from grid excursion events. It senses the voltage and frequency abnormalities in the system to physically disconnect/ reconnect the Enphase system to the grid.



Communications Kit 2

An accessory used to enable communication between IQ Battery 5P and IQ Battery 5P with FlexPhase and IQ Gateway. This device connects to IQ Gateway via a USB cable, and IQ Batteries are connected to this device via control cables.



Current transformers

Current transformers measure the current flowing through the system. The Enphase Energy System uses one CT to measure the solar power generated on your roof and one CT to measure the electricity consumption of your entire home. These currents measured are fed to the IQ Gateway.

2.3 Backup components



IQ System Controller 3 INT

The IQ System Controller 3 INT connects home to the utility grid, IQ Battery 5P, or the IQ Battery 5P with FlexPhase and rooftop solar. The IQ System Controller 3 INT seamlessly transitions the home energy system from grid power to backup power in the event of a utility grid failure.

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3. Component introduction

IQ Battery 5P/IQ Battery 5P with FlexPhase

The IQ Battery 5P and the IQ Battery 5P with FlexPhase are AC-coupled storage systems with an energy capacity of 5.0 kWh. They house two major components inside the cabinet, which make them powerful and reliable.

- The battery packs, internal to the battery, store energy for later use, such as night-time or lower solar production circumstances.
- The IQ Microinverters inside the battery convert AC power to DC to store in the battery, and then convert the DC power back to AC to supply power to home loads.



The IQ Battery 5P is a single-phase battery and can supply up to 3.84 kVA of power.

The IQ Battery 5P with FlexPhase is designed to deliver unmatched flexibility to meet your specific home needs and local grid requirements. It can be configured as a single-phase or three-phase battery and offers a range of output modes.

The IQ Battery 5P and the IQ Battery 5P with FlexPhase communicate through wired communication to the IQ System Controller.



IQ Gateway and Communications Kit

IQ Gateway collects production and performance data from your Enphase Energy System. It then transmits the data to the Enphase Cloud through Ethernet or Wi-Fi to make it visible in the Enphase App. The IQ Gateway also houses advanced algorithms that control and optimise your Enphase Energy System for the best performance. The IQ Gateway uses a Communications Kit as an accessory to enable communication with IQ Battery 5P.

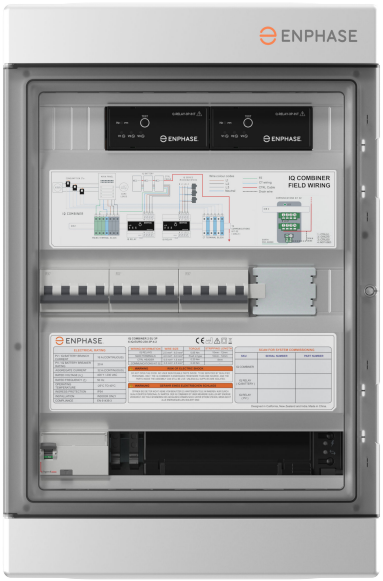
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IQ System Controller 3 (for backup systems)

The IQ System Controller 3 consolidates the interconnection equipment for your backup system. It also senses when the grid goes down and seamlessly transitions the home from grid power to backup power. During a grid outage, it safely disconnects the home from the utility grid and powers the backup loads using the IQ Battery 5P storage system and the PV system.

It includes the Enphase Communications Kit and IQ Gateway, a network communication device that collects production and performance data from IQ Series Microinverters and the IQ Battery 5P.



IQ Combiner 2 (for grid-tied systems)

The IQ Combiner 2 consolidates the interconnection equipment for your grid-tied system. It integrates essential protection, monitoring, and communication components into a single enclosure, simplifying installation and commissioning.

It includes the Enphase Communications Kit and the IQ Gateway, a network communication device that collects production and performance data from IQ Series Microinverters and the IQ Battery 5P.

4. System configurations

Your home power supply can be either single-phase or three-phase.

- A single-phase power supply is a two-wire alternating current (AC) circuit with Line 1 and Neutral.
- A three-phase power supply is a four-wire AC circuit with Line 1, Line 2, Line 3, and Neutral. Each AC signal is 120° apart.

A typical home power supply has a voltage of 220–240 V (L–N) and a frequency of 50 Hz.

Enphase Energy Systems with IQ Battery 5P support the following backup configurations:

- Whole home backup

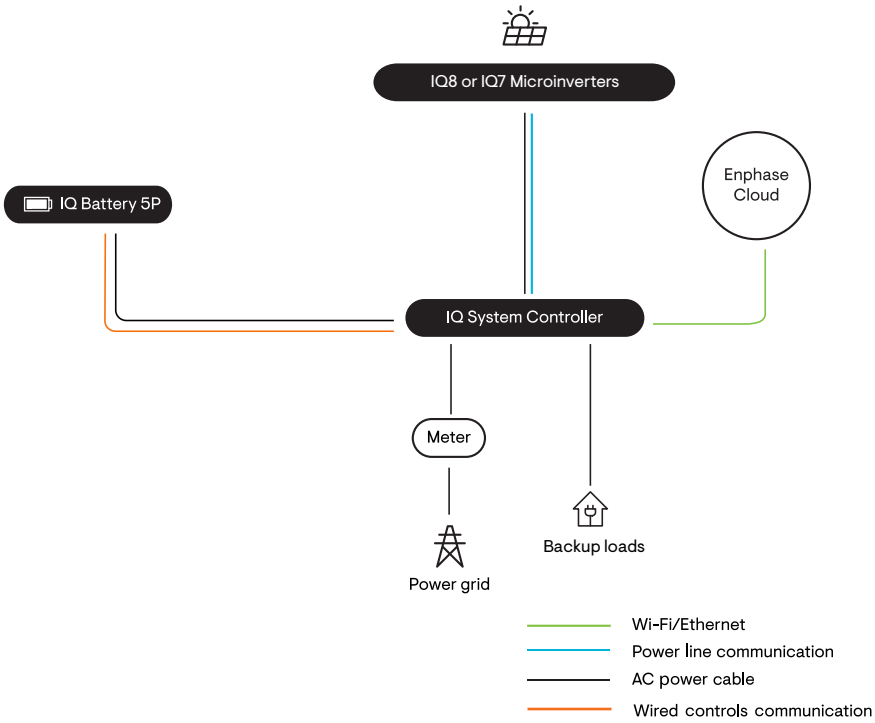
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- Partial home backup

4.1 Whole home backup

Whole home backup is ideal for homeowners who want all-day whole-home backup power for running appliances during a grid outage. The Enphase Energy System must be carefully sized to meet your home's specific energy needs.

Depending on your IQ Battery sizing, your Enphase Energy System may be able to sustain off-grid operation for extended periods.



Want to upgrade your system?

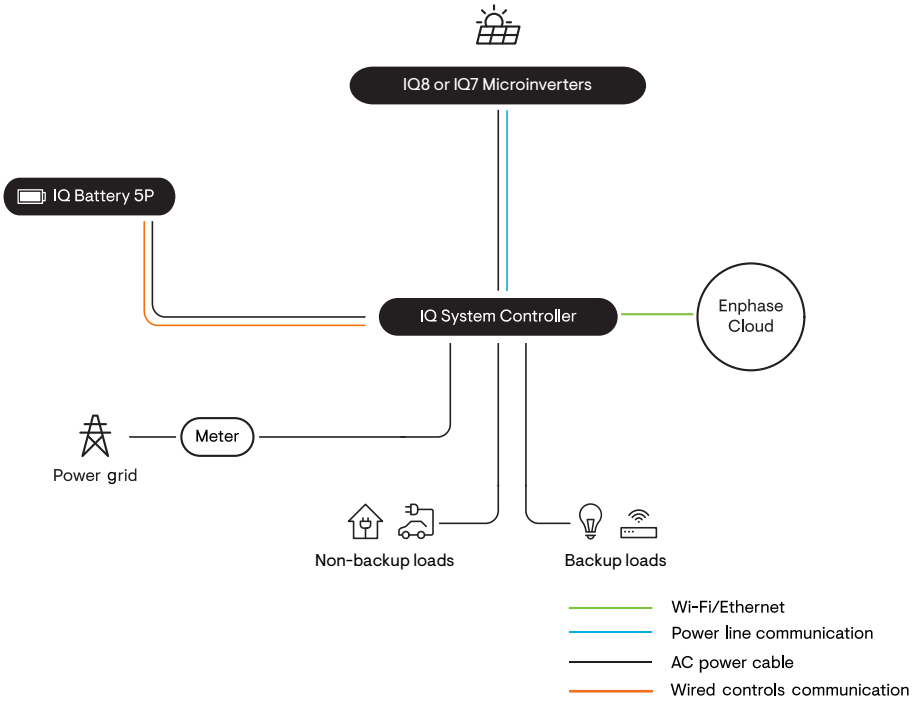
Thanks to the modular design of the Enphase Energy System, it is easy to add additional battery capacity as your needs grow over time.

Contact your Enphase installer to learn more about how you can expand your system.

4.2 Partial home backup

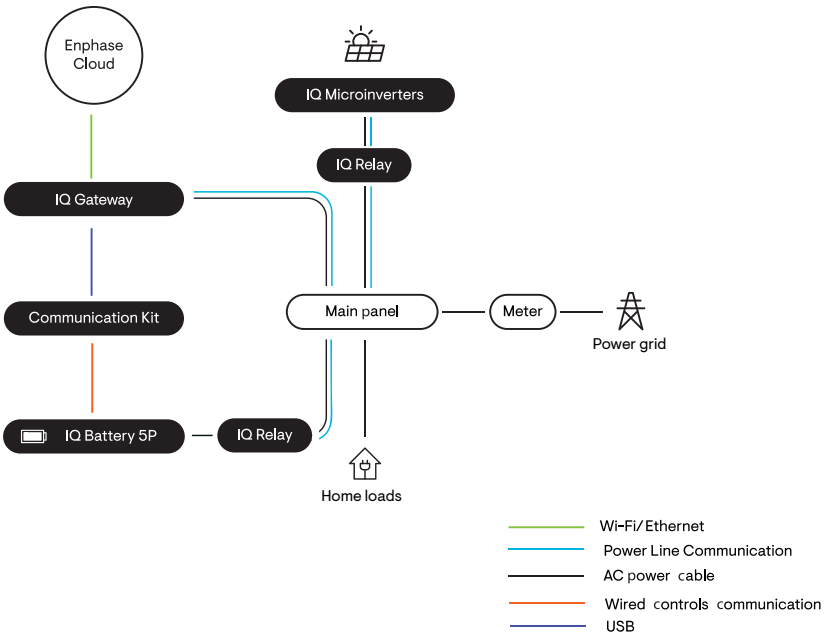
Partial home backup is ideal for homeowners who want to power essential appliances in their home, day or night, during a grid outage. If you have a partial home backup configuration, your Enphase Energy System has been sized to provide power for the appliances that you identified as "essential" in discussions with your installer.

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4.3 Grid-tied configuration

The grid-tied solution is perfect for homeowners who have access to a reliable grid. They can harness solar energy to reduce their reliance on the grid and lower electricity bills while always staying connected to the grid. The power supply to your home can either be single-phase or three-phase. Below you can find a simplified representation of your Enphase Energy System.



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5. System monitoring and management

Make, use, save, and export power right from the palm of your hand with the Enphase App. You can quickly and easily monitor and control your Enphase Energy System and modify system settings directly from the Enphase App.

NOTE: Internet connectivity for your Enphase Energy System is essential to keep your system updated and provide accurate information on the Enphase App.

5.1 Getting started

Instructions to activate your Enphase App account are sent to you at the email address you provided to your installer. Look for an email with the subject line “Activate Your Online Solar Monitoring Account.” from donotreply@enphaseenergy.com. You will also receive monthly emails from this address. Be sure to unblock this address from your spam or junk mail filters. Read the Enphase App terms of service at Country-specific references on page 30.



5.2 Enphase App

The mobile application is available for both iOS and Android devices. You can install the latest version of the Enphase App from the App Store or Play Store.

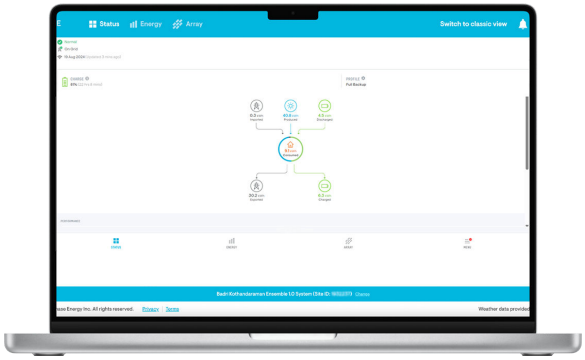
Download on the App Store

GET IT ON Google Play

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5.3 Enphase web application

You can access the Enphase App using your internet browser on your desktop or mobile device. Log in to the Enphase App at https://enlighten.enphaseenergy.com.

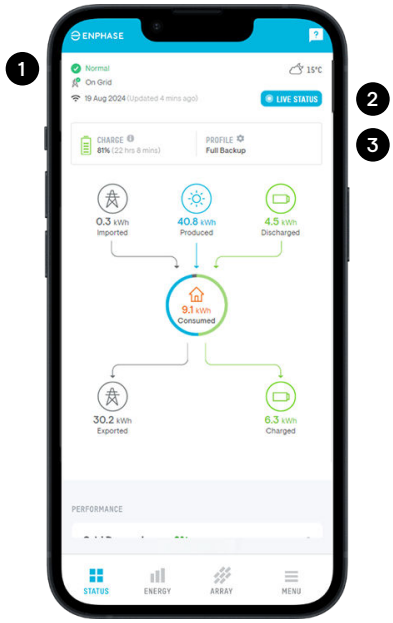


5.4 Setting your smart profile

Your Enphase Energy System features three preconfigured smart profiles that allow you to choose the operation that matches your energy management objectives. You can easily change your profile as your objectives change over time.

Depending on the system configuration, you can set your Enphase Energy System units to one of the following smart profiles:

- AI Optimization profile (available only in some regions)
- Self-Consumption profile
- Full Backup profile (available only in backup systems)



1. In the upper left corner of the Status section, you can see the operating status of your system and whether your system is On Grid or Off Grid (in backup systems).

2. Tap LIVE STATUS on the status page to see real-time energy flows for your system.

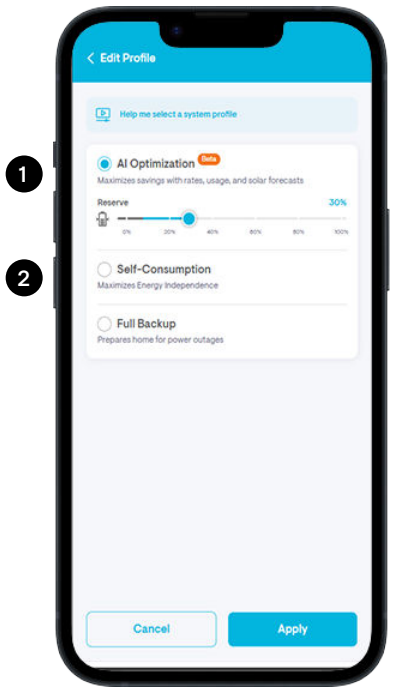
3. Your system's behaviour is determined by the smart profile you enable.

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5.5 AI Optimization mode

Under a time-of-use (TOU) rate schedule, your utility charges you more for electricity during the hours when electricity demand is the highest (peak hours) and less during periods of low electricity demand (off-peak hours). When you discharge your batteries during peak billing hours, you avoid importing expensive electricity from the utility by consuming the energy discharged by your batteries. In addition, while batteries supply your home's electricity demand, the solar energy produced is exported to the grid to maximise your savings.

To complete the AI Optimization profile configuration, you will need access to the details of the electric rate schedule for your utility account. You must also decide how much of your IQ Battery capacity will be held in reserve for backup power in case of a grid outage (for backup-enabled systems). This is referred to as your reserve capacity.



1. Select the AI Optimization profile if you wish to use your stored energy when electricity rates are highest.

2. In a backup-enabled system, you can edit the reserve capacity of your IQ Batteries in the AI Optimization profile. The reserve capacity refers to the percentage of your battery's capacity that you want to reserve for outages. For example, if the reserve capacity is set to 30%, your IQ Batteries will not discharge below 30% unless there is an outage.

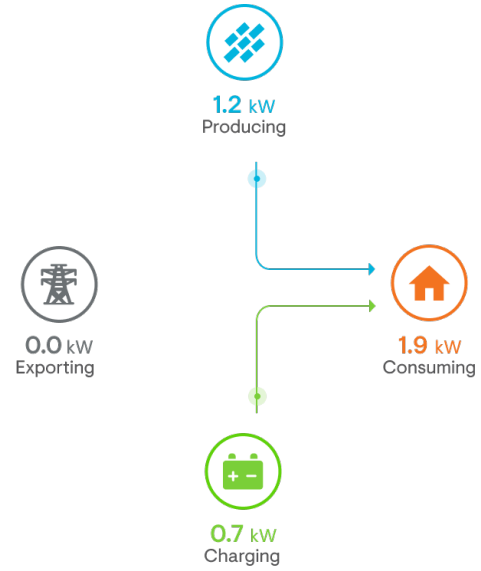
You can change your battery reserve capacity setting from the battery storage page on the Enphase App for any of the smart profile settings.

NOTE: AI Optimization profile is available to homeowners in Germany, France, The Netherlands, and Belgium. This profile is scheduled to roll out to other regions in the future.

5.5.1 Operation in AI Optimization

The AI Optimization profile leverages predictive modelling to analyse solar production, home energy consumption, system configuration, electricity rates, and other parameters. This enables the system to maximise financial savings and deliver optimal value to system owners.

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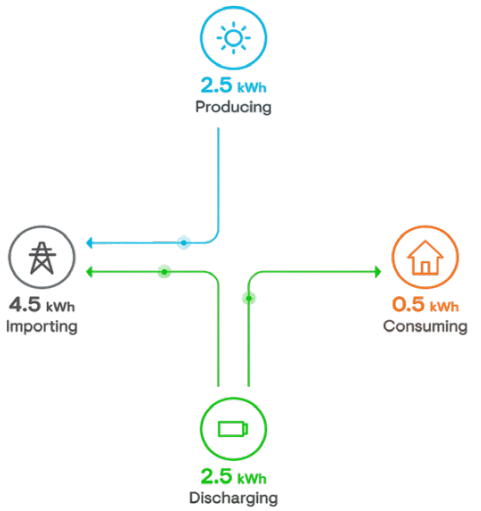
System behaviour during off-peak hours: Grid power is used to charge the batteries and support home loads.

The AI Optimization profile leverages predictive modelling to analyze solar production, home energy consumption, system configuration, electricity rates, and other parameters. This enables the system to maximize financial savings and deliver optimal value to system owners.

During daylight and off-peak hours, your solar production is prioritised to:

1. Charge your battery.
2. Power your home.
3. Export to the grid.

Solar production is used to charge the batteries. If batteries are fully charged, solar production powers the home, and excess generation is exported to the grid. The Live Status snapshots in the Self-Consumption profile section also apply here.



System behaviour during the peak period when the export rates are high: Import from the grid is minimised, and all the energy is supplied by battery and PV as far as possible.

During peak hours (often after sunset), if the export rates are higher than the import rates, your energy consumption sources are prioritized as follows:

1. Battery discharge.
2. Solar (if available and needed to meet the home energy demand).
3. Grid import.

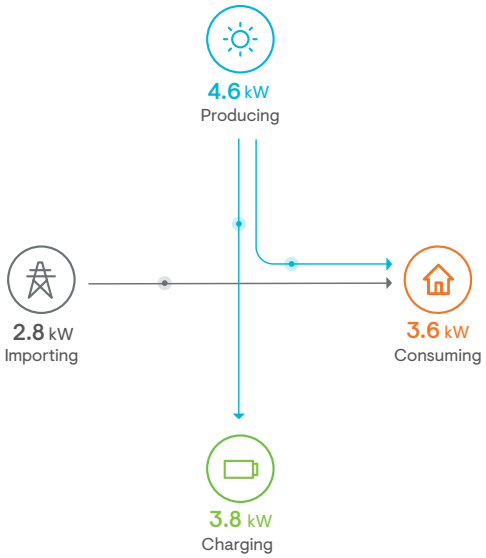
Excess solar power is exported to the grid to maximize feed-in credits. In addition, if your battery is in Export Only mode, then excess battery power is exported to the grid.

During peak hours, if export rates are lower than the import rates, your energy consumption sources are prioritized as follows:

1. Solar (if available)
2. Battery discharge
3. Grid import

Click here for more information about the operation of the AI Optimization profile.

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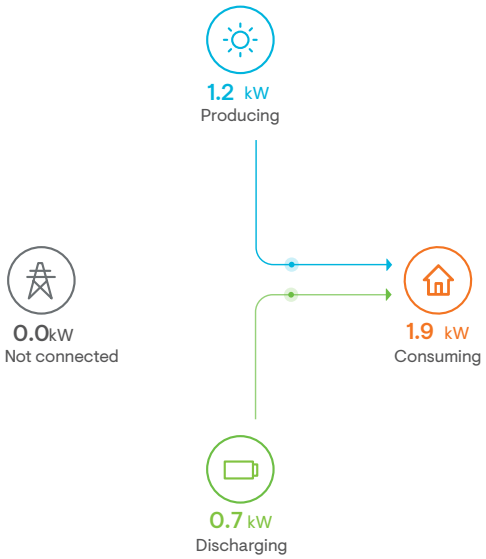


During off-peak hours, the solar panels charge the battery before powering the home. Any excess power is exported to the grid. If your home needs more power than the solar panels can provide, power is used from the grid.

During daylight, off-peak hours, the solar production is prioritised to:

1. Charge your battery.
2. Power your home.
3. Export to the grid.

Solar production is used to charge the batteries. If batteries are fully charged, solar production powers the home, and excess generation is exported to the grid.



When the grid is down, solar and battery power the home.

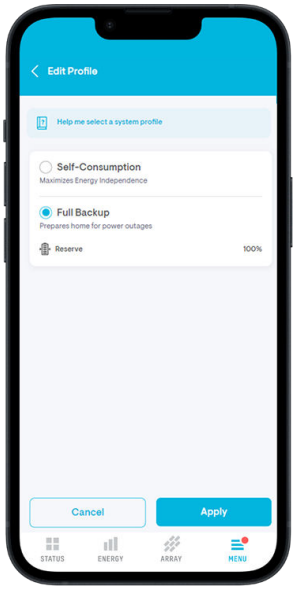
What happens when an outage occurs?

In a backup-enabled system, when a grid outage occurs, your batteries discharge to power your home.

5.6 Full Backup profile (applicable only to backup systems)

When you enable the Full Backup profile, all your Enphase Energy System capacity is held in reserve in the event of a power outage. When this profile is set, the batteries do not charge and discharge when the grid is available.

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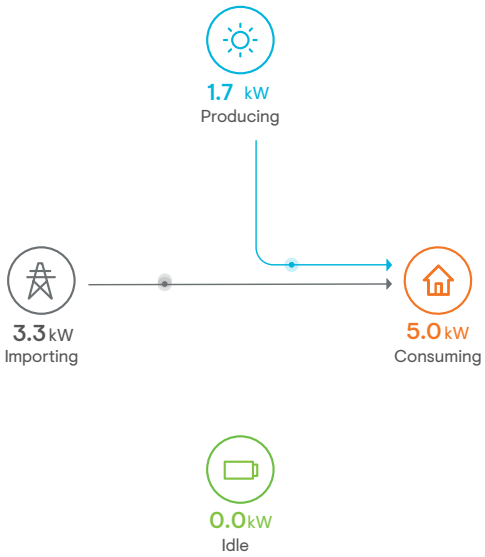


When you enable the Full Backup profile, all your Enphase Energy System capacity is held in reserve in the event of a power outage. When this profile is set, the batteries do not charge and discharge when the grid is available.

NOTE: Reserve capacity is not adjustable in the Full Backup profile. This profile is often used in areas that experience frequent grid outages without a related storm event.

Select Full Backup profile to store 100% of your battery energy for use during a grid outage at home.

5.6.1 Operation in Full Backup profile



When the battery is fully charged, solar production and grid power the home.

This profile prepares your system for power outages by maintaining a full charge in the battery.

During daylight or off-peak hours, the solar production is prioritised to:

1. Charge your battery.
2. Power your home.
3. Export to the grid.

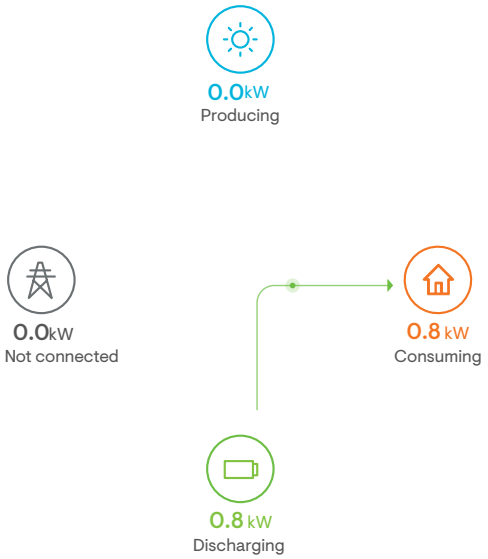
After the battery is fully charged, electricity is imported from the grid when your home needs more power than the solar panels can provide.

When there is no sunlight, your home uses electricity from the grid.

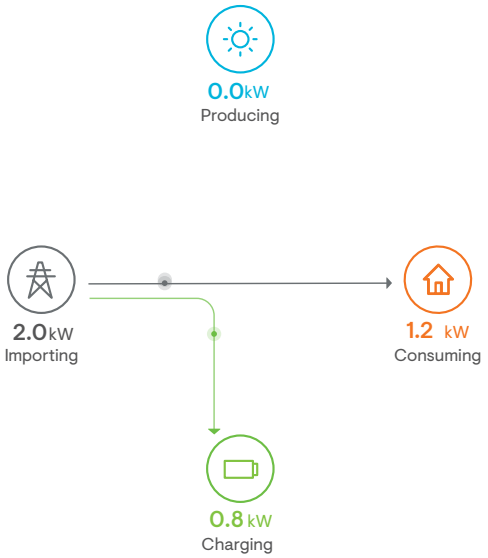
What happens when an outage occurs?

When an outage occurs, your batteries discharge to power your home. You can check the backup history of your device through the Enphase App. Go to **Menu** > **System** > **Backup History**.

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When the grid is down and sunlight is not available, the battery powers the home.



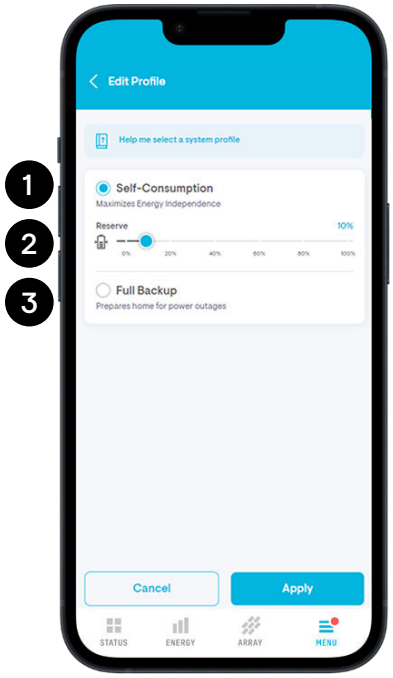
If there is a grid outage at night, the battery will power the backed-up loads. If the "charge from grid" feature is enabled, the battery will start charging from the grid once it is back online to restore it to 100% SOC.

5.7 Self-Consumption profile

Self-Consumption profile always prioritises your consumption or storage of your produced solar energy over exporting it to the grid. For backup-enabled systems, you must decide how much of your Enphase IQ Battery capacity will be held in reserve for backup power in case of a grid outage. This is referred to as your reserve capacity.

In jurisdictions where solar export is not allowed, the solar energy is never exported to the grid.

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1. Select the Self-Consumption profile to maximise the use of your generated energy at home.

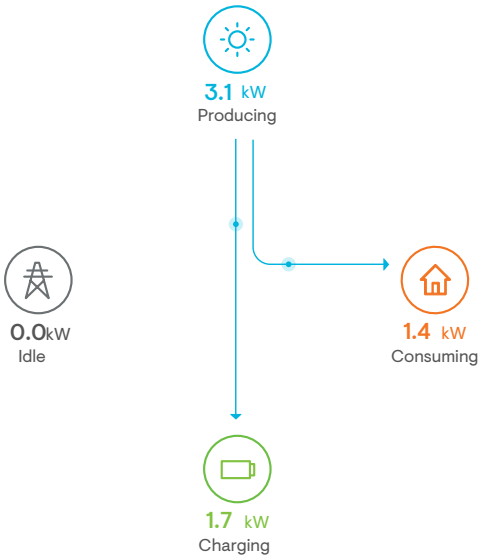
2. In backup-enabled systems, you can edit the reserve capacity of your IQ Batteries in the Self-Consumption profile. The reserve capacity refers to the percentage of your battery's capacity that is reserved for outages. For example, if the reserve capacity is set to 30%, your IQ Batteries will not discharge below 30% unless there is a grid outage.

You can change your battery reserve capacity setting from the battery storage page on the Enphase App for any of the smart profile settings.

3. The Full Backup option will only be visible if it is a backup system.

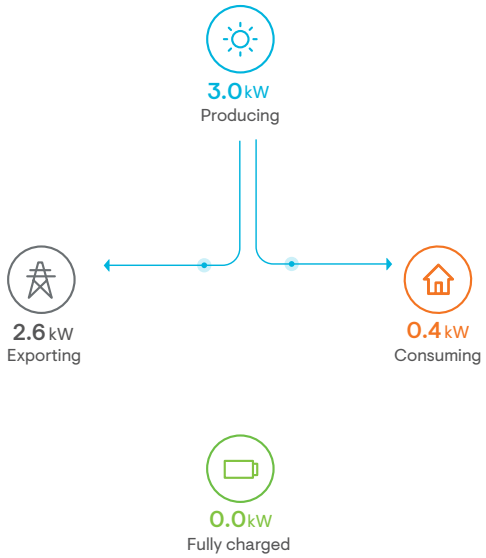
Operation in Self-Consumption profile

Normal operation in the Self-Consumption profile always prioritises the consumption of solar production or storage over export to the grid. In jurisdictions where export is not allowed (zero export regulations), energy is never exported to the grid. During daylight hours, energy is used to power the home or charge the batteries.

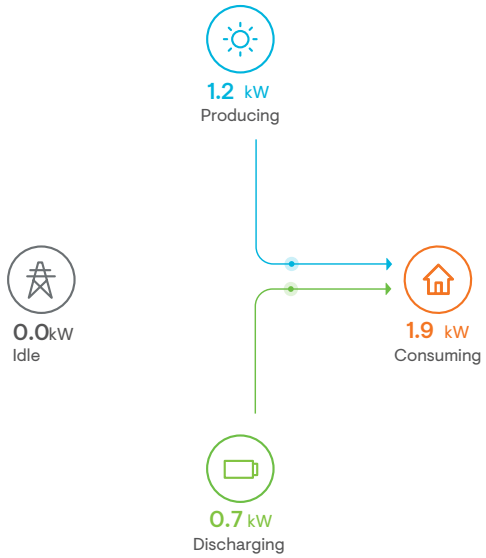


During regular operation, solar production powers the home and charges the battery.

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After the battery is fully charged, solar production powers the home, and the excess solar power generated is exported to the grid.



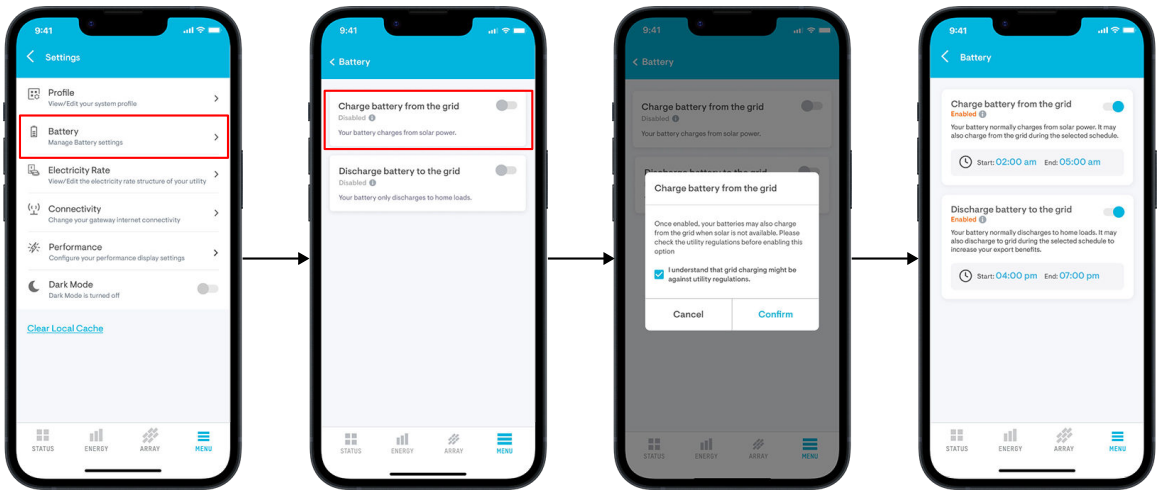
When the home is consuming more power than solar production can provide, the battery starts discharging to meet the power requirement.

5.8 Charge battery from the grid mode

Charge battery from the grid is an additional feature that you can enable to charge your battery from the grid when the energy prices are low.

To enable **Charge battery from the grid** through the Enphase App, go to **Menu** > **Settings** > **Battery**. As shown below, you can schedule a time window during which your batteries can be charged from the grid. The usual practice is to enable/schedule **Charge battery from the grid** when the utility rates are low.

NOTE: In the event that the option is not visible in the Enphase App, contact your installer.

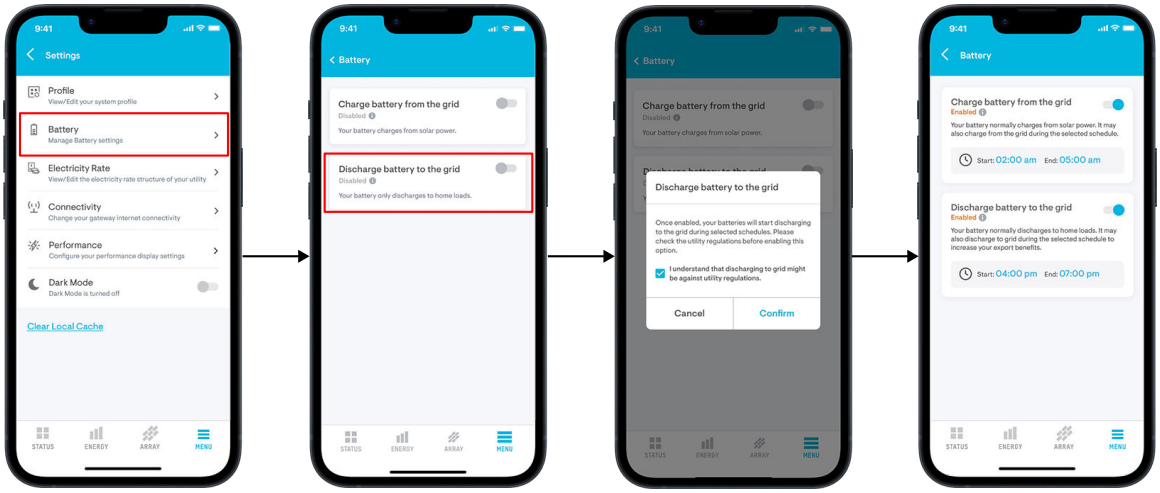


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5.9 Discharge to the grid mode

Discharge battery to the grid (DTG) is a feature that you can enable to discharge your battery and increase your monetary benefit by exporting energy to the grid during high export rates. To enable the DTG option through the Enphase App, go to **Menu** > **Settings** > **Battery**.

As shown in the following figure, you can schedule a time window for discharging batteries to the grid. The usual practice is to enable/schedule a DTG when the utility rates are high. If you are a part of any smart tariffs that give your provider control of the battery, they might override your charge and/or discharge settings on the Enphase App for your battery.



6. System care

The Enphase Energy System equipment is outdoor-rated. However, it should not be immersed in water.

Do not block vents or store flammable, sparking, or explosive objects near the equipment.

Store all objects that could fall onto or collide with the unit away from the equipment.

Never rest anything on top of the equipment.

For a system installed indoors, a nearby smoke detector is recommended. For an outdoor installation, a smoke detector is not necessary.

Use a slightly damp (water only) or dry cloth to clean or dust the equipment as needed. Do not use cleaning solvents or harsh chemicals on the equipment.

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7. Troubleshooting

7.1 System recovery after shutdown

Your system has experienced a shutdown if it is no longer providing power to your home. System shutdowns may be caused by a failure of any external wiring or accessories of the system, by a failure of the wired communication systems, or any other equipment failure related to the Enphase Energy System. Check the MCBs inside the IQ System Controller and reset them if they have tripped. Recovery steps following system shutdown vary depending on the cause of the shutdown. If solar production and the grid are available and the batteries still do not recover, restart the batteries by cycling the DC switches on the IQ Battery 5P unit; see Reset the IQ Battery 5P using DC switch.

7.2 Shutdown due to communications system failure

If your Enphase App shows "Microinverters not reporting" or "Batteries not reporting", give the system up to 15 to 20 minutes to recover on its own. The Enphase Energy System reconnects automatically and recovers from wired communication failures. If more than 20 minutes have elapsed and you do not see communication established, contact Enphase Support.

7.3 Shutdown due to System Shutdown Switch activation (in backup systems)

The System Shutdown (SSD) Switch is used together with PV and battery breakers to disconnect all PV panels and IQ Battery 5P units from the home to ensure the safety of maintenance technicians. If the SSD Switch is activated, you must follow these steps to resume operation:

- Turn the SSD Switch to the ON position.
- Turn the PV breakers in the IQ System Controller 3 INT to the ON position.
- Turn the IQ Battery 5P breakers in IQ System Controller 3 INT to the ON position.
- Press the DC switch on all IQ Battery 5P units to turn them ON.

7.4 System shutdown using manual override switch (in backup systems)

In the event of an emergency, follow the instructions on the manual override switch cover in the IQ System Controller to enable or disable manual override mode. When you enable manual override mode, your system bypasses the IQ Batteries and PV. The system operates with power only from the utility grid in this mode. You should perform these steps only in the event of an emergency or if you have been instructed to do so by Enphase Support.

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7.5 IQ Gateway communications troubleshooting

In grid-tied systems, the IQ Gateway is a standalone component. In backup systems, the IQ Gateway is present inside the IQ System Controller 3 INT. If the IQ Gateway has stopped reporting to the Enphase App, see this webpage for more information https://support.enphase.com/s/article/Reconnecting-your-Envoy-S-or-IQ-Envoy.

If the IQ Gateway is not powered on or has failed, the IQ Battery 5P units will not discharge. If the IQ Gateway fails; contact your installer to submit a warranty claim for replacement (where applicable).

The Network communications LED (LED 1) in the IQ Gateway is lit solid green when connected to the internet. If the Enphase App shows that the IQ Gateway is not reporting, and the Network communications LED on the IQ Gateway is lit red, then you may need to reconnect the IQ Gateway to the internet using Wi-Fi, hard-wired Ethernet, or a cellular network.

Check that the IQ Gateway is ON. If not, switch it ON.

For more information on how to access monitoring when there is no connectivity, visit https://support.enphase.com/s/article/Connecting-to-your-system-without-cell-connectivity.

7.6 IQ System Controller 3 INT LEDs

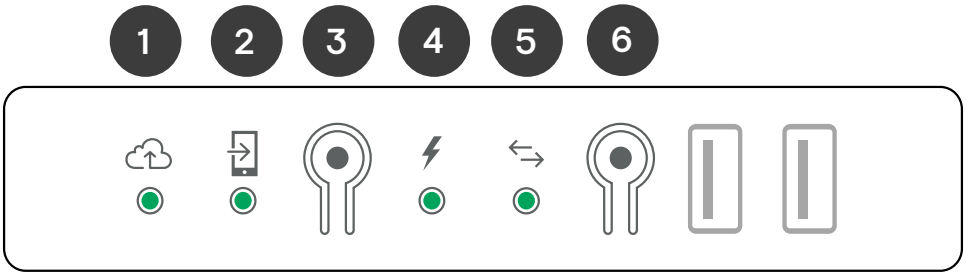


LED 1	State	Description
	Off	Not operating
	Flashing green	Switched on; booting
	Solid green	Operational
	Flashing red	Firmware upgrade
	Solid red	Error
	Flashing blue	Operational; cannot detect any IQ Battery
	Solid blue	Operational; cannot detect at least one IQ Battery
	Flashing yellow	Performing state of charge recovery
	Solid yellow	Off-grid

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LED 2	State	Description
	Off	Not operating
	Flashing green	Switched on; booting
	Solid green	Operational; on-grid
	Flashing blue	Synchronising to the grid
	Solid blue	Off-grid
	Solid red	In system shutdown or manual override mode

7.7 IQ Gateway LEDs and buttons



1: Network communication LED	Status	Description
	Green	IQ Gateway is connected to Enphase Installer Platform.
	Flashing green	Connecting to EIP or the Wi-Fi router.
	Red	Connected to the local network only, i.e., without internet.
	Off	No network is available.

2: AP mode LED	Status	Description
	Green	AP mode is enabled, and the IQ Gateway Wi-Fi network is available.
	Off	AP mode is disabled. Default state unless the installer uses AP mode.

3: AP mode button

To be used only by the installer to configure the system.

Press to activate AP mode.

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4: Power production LED	Status	Description
	Flashing green	An upgrade of microinverters is in progress.
	Green	All microinverters are producing power.
	Red	One or more microinverters have stopped producing power.
	Flashing red	Microinverters are not yet detected.
	Off	All microinverters have stopped producing power.

Usually red at dawn/dusk, off at night, and flashing red after the IQ Gateway restarts.

5: Device communication LED	Status	Description
	Flashing green	IQ Gateway is scanning for microinverters.
	Green	All microinverters are communicating.
	Red	One or more microinverters have stopped communicating.
	Off	All microinverters have stopped communicating.

Usually red at dawn and dusk, off at night.

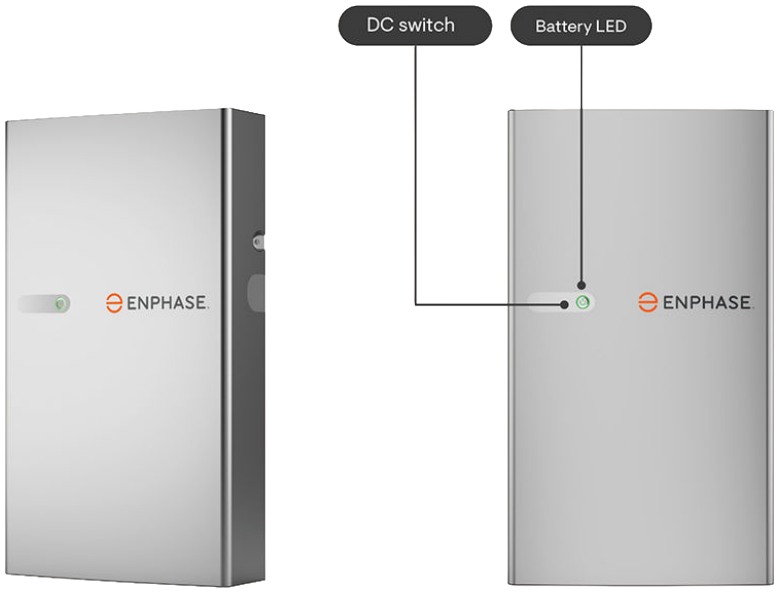
6: Device scan button
To be used only by the installer to configure the system. Press to start/stop a 15-minute scan for devices over the power line.

7.7.1 Reset the IQ Battery 5P using the DC switch

In the unlikely event that a battery does not automatically recover from a failure scenario, you can manually reset the battery to resume normal functioning.

To reset the battery, lightly press the DC switch button on the front of the battery. The battery LED state will change to a red triple-flash pattern. Then, switch off the AC circuit breaker for the battery in the electrical panel and wait 30 seconds after the LED on the battery has gone off. After 30 seconds, turn on the AC circuit breaker again and wait for the battery to show a red triple flash pattern. Then, press the DC switch once again to turn on the battery. The LED state should change to green/blue.

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IQ Battery 5P LED status

You can check and record the colour of all the LEDs on the front of the IQ Battery 5P using the following table. If the IQ Battery 5P lights are solid or pulsing green or blue, the batteries are operating normally.

LED	State	Description
	Solid yellow	Not operating due to high temperature. See Troubleshooting on page 21.
	Yellow single flash	No communication with IQ Gateway.
	Yellow double flash	Battery controller update in progress.
	Yellow triple flash	BMS update in progress.
	Yellow one-second flash	PCU update in progress.
	Soft pulse yellow	Sleep mode.
	Soft pulse blue	Discharging.
	Solid blue or green	Idle. The colour transitions from blue to green as the state of charge increases. Check the Enphase App/ Enphase Installer Platform for charge status.

LED	State	Description
	Soft pulse green	Charging.
	Red single flash	Upgrade fail.
	Red double flash	IQ Battery 5P is in an error state. Contact Enphase Support to troubleshoot the issue.

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LED	State	Description
	Red triple flashes	DC control switch is OFF, and AC from an external source is present.
	Soft pulse red	DC control switch is ON, and AC from an external source is NOT present.
	Off	DC control switch is OFF, and AC from an external source is not present.

7.7.2 When to contact Enphase Support

If your system is not operating properly, has shut down unexpectedly, or the system is locked out due to G100-related violations, contact Enphase Support for guidance at Country-specific references on page 30.

Your support agent will ask for details on the status LEDs in your system. Be prepared to provide information about the IQ Battery 5P storage system LED.

8. Safety information

Safety and advisory symbols

To reduce the risk of electric shock and to ensure the safe installation and operation of the Enphase Energy System, the following safety symbols indicate dangerous conditions and important safety instructions.

DANGER: This indicates a hazardous situation, which, if not avoided, will result in death or serious injury. Use extreme caution and follow instructions carefully.

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 important for optimal system operation. Follow instructions carefully.

IQ Battery 5P

This section describes the safe use of the Enphase Energy System with the IQ Battery 5P units for a homeowner.

Safety instructions

DANGER: A battery can present a risk of electrical shock, fire, or explosion from vented gases. Only qualified electricians should install, troubleshoot, or replace the Enphase Energy System equipment or wiring.

DANGER: If the Enphase storage equipment generates smoke, remove AC power from the Enphase Energy System and turn the DC switch on the IQ Battery 5P units to the OFF position, following the instructions in the manual.

DANGER: In case of fire, use a standard or carbon dioxide fire extinguisher or another appropriate extinguisher to put out the fire.

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DANGER: Do not dispose of the IQ Battery 5P units in a fire or by burning.



DANGER: Do not allow or place flammable, sparking, or explosive items near the Enphase storage system equipment.



WARNING: Do not attempt to repair the Enphase Energy System equipment; it contains no user-serviceable parts. Do not open the IQ Battery 5P unit under the cover. Doing so will void the warranty. If the Enphase Energy System equipment fails, contact your solar installation professional or Enphase at Country-specific references on page 30.



WARNING: The IQ Battery 5P unit is designed for stationary installation only. It is not designed for mobile applications, such as installation on vehicles and trailers, and should not be used in such applications.



DANGER: During use, when stored, or during transport, keep the IQ Battery 5P unit in an area that is well-ventilated, where the ambient temperature is between –20°C and 50°C (–4°F and 122°F).



DANGER: Risk of electric shock. In areas where flooding is possible, install the Enphase Energy System equipment at a height that prevents water ingress.



WARNING: Risk of equipment damage. During use, storage, transport, or installation, always keep the Enphase Energy System equipment in an upright (top side up) position.



WARNING: Do not install or use the Enphase Energy System equipment if it has been damaged in any way.



WARNING: Do not place beverages or liquid containers on top of the Enphase Energy System equipment. Do not immerse Enphase Energy System equipment in liquids or flooding.

- In a location compliant with fire safety regulations (has a smoke detector)
- In a location compliant with local building codes and standards



WARNING: Do not sit on, place objects on, or insert objects into the Enphase Energy System equipment.



WARNING: Read this entire document before using Enphase Energy Systems.



WARNING: Protection from lightning and resulting voltage surge must be in accordance with local standards.



WARNING: Using unapproved attachments or accessories could result in damage or injury.



WARNING: To ensure optimal reliability and to meet warranty requirements, Enphase Energy System equipment must be installed and stored according to the instructions in Enphase Energy System equipment guides.



WARNING: During use, storage, and transport, keep Enphase storage products:

IQ System Controller 3 INT

This section contains important instructions that you must follow during the installation and maintenance of the IQ System Controller 3 INT. Failing to follow any of these instructions may void the warranty (https://enphase.com/installers/resources/warranty).

In case of fire or other emergency

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In all cases:

- If safe to do so, turn off all DC switches on each IQ Battery.
- Turn off the PV breaker and battery breakers inside the IQ System Controller 3 INT.
- Turn off the AC breaker for the IQ System Controller 3 INT circuit.
- If an isolator switch is present, switch off the AC isolator for the IQ System Controller 3 INT circuit.
- Contact the fire department or other required emergency response team.
- Evacuate the area.

In case of fire:

- When safe, use a fire extinguisher. Suitable types are A, B, and C dry chemical fire extinguishers. Additional extinguishing media include carbon dioxide or alcohol-resistant foams.

In case of flooding:

- Stay out of water if any part of the IQ System Controller 3 INT or wiring is submerged.
- If possible, protect the system by finding and stopping the source of the water and pumping it away.
- If water has contacted the unit, call your installer to arrange an inspection. If you are sure that water has never contacted the battery, let the area dry completely before use.

In case of unusual noise, smell, or smoke:

- Ensure nothing is in contact with the IQ System Controller 3 INT.
- Ventilate the room.
- Contact Enphase Support at Country-specific references on page 30.

Safety instructions



DANGER: Risk of electric shock. Risk of fire. Only qualified electricians should install, troubleshoot, or replace the IQ System Controller 3 INT.



DANGER: Risk of electric shock. Risk of fire. Do not attempt to repair the IQ System Controller 3 INT. Tampering with or opening the IQ System Controller 3 INT will void the warranty. If the IQ System Controller 3 INT fails, contact your installer/Enphase Support for assistance at Country-specific references on page 30.



DANGER: Risk of electric shock. Do not use Enphase equipment 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. 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.



DANGER: Risk of fire. Do not allow or place flammable, sparking, or explosive items near the IQ System Controller 3 INT.



DANGER: Risk of fire. Risk of electric shock. In areas where flooding is possible, install the IQ System Controller 3 INT at a height that prevents water ingress.



DANGER: Do not sit on, step on, place objects on, or insert objects into the IQ System Controller 3 INT.



WARNING: Do not place beverages or liquid containers on top of the IQ System Controller 3 INT. Do not expose the IQ System Controller 3 INT to flooding.

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NOTE: Using unapproved attachments or accessories could result in damage or injury.

NOTE: The IQ System Controller 3 INT is intended to operate with an internet connection through the built-in IQ Gateway. Failure to maintain an internet connection may have an impact on the warranty. See limited warranty for full terms and services (https://enphase.com/warranty).

NOTE: When replacing an IQ System Controller 3 INT, you must replace it with an IQ System Controller 3 INT of the same type with the same AC current rating.

NOTE: During use, storage, and transport, keep the IQ System Controller 3 INT:

- Properly ventilated.
- Away from water, other liquids, heat, sparks, and direct sunlight.
- Away from excessive dust, corrosive and explosive gases, and oil smoke.
- Away from direct exposure to gas exhaust, such as from motor vehicles.
- Away from falling or moving objects, including motor vehicles. If mounted in the path of a motor vehicle, we recommend a 91 cm (36 in) minimum mounting height.
- In a location compliant with fire safety regulations.
- In a location compliant with local building codes and standards.

9. Warranty

To ensure optimal performance and reliability, and to meet warranty requirements, the Enphase Energy System must be installed according to the instructions in the respective product quick install guides.

The Enphase Energy System equipment is intended to operate with an internet connection. Maintaining an internet connection is important, not only for updating software and firmware but also for measuring the health of the system. Failure to maintain an internet connection may have an impact on the warranty.

In addition, features like live status and energy and power monitoring work when the system has an active internet connection.

You can check the status of your warranty on the Enphase App by navigating to **Menu** > **System** > **Devices** > **Battery** > **Limited Warranty information**.

Visit https://enphase.com/installers/resources/warranty for full terms and services.

Audience

This manual is intended for use by owners of Enphase Energy Systems with IQ Battery 5P.

9.1 Environmental protection

Waste electrical products (including batteries) should not be disposed of with household waste. Refer to your local codes for disposal requirements.

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ELECTRONIC DEVICES: DO NOT THROW AWAY.

Do not install or use the Enphase Energy System equipment if it has been damaged in any way.

9.2 Country-specific references

Country/ Region	References
Australia & New Zealand	Terms of service: https://enphase.com/en-au/legal/terms-service Enphase Support: https://enphase.com/en-au/contact
Austria	Terms of service: https://enphase.com/de-at/legal/terms-service Enphase Support: https://enphase.com/de-at/contact
Belgium	Terms of service: https://enphase.com/fr-be/legal/terms-service; https://enphase.com/nl-be/legal/terms-service Enphase Support: https://enphase.com/fr-be/contact; https://enphase.com/nl-be/contact
Bulgaria	Terms of service: https://enphase.com/bg-bg/legal/terms-service Enphase Support: https://enphase.com/bg-bg/contact
Croatia	Terms of service: https://enphase.com/hr-hr/legal/terms-service Enphase Support: https://enphase.com/hr-hr/contact
Denmark	Terms of service: https://enphase.com/da-dk/legal/terms-service Enphase Support: https://enphase.com/da-dk/contact
Estonia	Terms of service: https://enphase.com/et-ee/legal/terms-service Enphase Support: https://enphase.com/et-ee/contact
Finland	Terms of service: https://enphase.com/en-fi/legal/terms-service Enphase Support: https://enphase.com/en-fi/contact
France	Terms of service: https://enphase.com/fr-fr/legal/terms-service Enphase Support: https://enphase.com/fr-fr/contact
Germany	Terms of service: https://enphase.com/de-de/legal/terms-service Enphase Support: https://enphase.com/de-de/contact
Greece	Terms of service: https://enphase.com/el-gr/legal/terms-service

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Country/ Region	References
	Enphase Support: https://enphase.com/el-gr/contact
Hungary	Terms of service: https://enphase.com/hu-hu/legal/terms-service Enphase Support: https://enphase.com/hu-hu/contact
India	Terms of service: https://enphase.com/en-in/legal/terms-service Enphase Support: https://enphase.com/en-in/contact
Italy	Terms of service: https://enphase.com/it-it/legal/terms-service Enphase Support: https://enphase.com/it-it/contact
Latvia	Terms of service: https://enphase.com/lv-lv/legal/terms-service Enphase Support: https://enphase.com/lv-lv/contact
Lithuania	Terms of service: https://enphase.com/lt-lt/legal/terms-service Enphase Support: https://enphase.com/lt-lt/contact
Luxembourg	Terms of service: https://enphase.com/fr-lu/legal/terms-service Enphase Support: https://enphase.com/fr-lu/contact
Malta	Terms of service: https://enphase.com/en-mt/legal/terms-service Enphase Support: https://enphase.com/en-mt/contact
Mexico	Terms of service: https://enphase.com/es-mx/legal/terms-service Enphase Support: https://enphase.com/es-mx/contact
Netherlands	Terms of service: https://enphase.com/nl-nl/legal/terms-service Enphase Support: https://enphase.com/nl-nl/contact
Norway	Terms of service: https://enphase.com/nb-no/legal/terms-service Enphase Support: https://enphase.com/nb-no/contact
Poland	Terms of service: https://enphase.com/pl-pl/legal/terms-service Enphase Support: https://enphase.com/pl-pl/contact
Portugal	Terms of service: https://enphase.com/pt-pt/legal/terms-service Enphase Support: https://enphase.com/pt-pt/contact
Romania	Terms of service: https://enphase.com/ro-ro/legal/terms-service Enphase Support: https://enphase.com/ro-ro/contact

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Country/ Region	References
Slovakia	Terms of service: https://enphase.com/sk-sk/legal/terms-service Enphase Support: https://enphase.com/sk-sk/contact
Slovenia	Terms of service: https://enphase.com/sl-si/legal/terms-service Enphase Support: https://enphase.com/sl-si/contact
Spain	Terms of service: https://enphase.com/es-es/legal/terms-service Enphase Support: https://enphase.com/es-es/contact
Sweden	Terms of service: https://enphase.com/sv-se/legal/terms-service Enphase Support: https://enphase.com/sv-se/contact
Switzerland	Terms of service: https://enphase.com/de-ch/legal/terms-service; https://enphase.com/fr-ch/legal/terms-service; https://enphase.com/it-ch/legal/terms-service Enphase Support: https://enphase.com/de-ch/contact; https://enphase.com/fr-ch/contact; https://enphase.com/it-ch/contact
United Kingdom	Terms of service: https://enphase.com/en-gb/legal/terms-service Enphase Support: https://enphase.com/en-gb/contact

For safe handling instructions for the IQ Battery 5P, see the Safety data sheet.

10. Revision history

Revision	Date	Description
USG-00136-2.0	July 2026	Editorial updates.
USG-00136-1.0	June 2026	Initial release.

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Applicable regions: Europe

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