ENPHASE

Enphase Energy System with IQ Battery 10C Owner's guide

Corporate headquarters contact information

https://enphase.com/support

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 quick install guide.

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 monitoring, energy and power monitoring, Storm Guard, and in-app control of appliances that have load control only work when the system has an active internet connection.

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

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 https://enphase.com/support for the latest information.

Visit https://enphase.com/patents for Enphase patent information.

Audience

This manual is intended for use by owners of Enphase Energy Systems with IQ Battery 10C.

Environmental protection

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

ELECTRONIC DEVICES: DO NOT THROW AWAY.
Do not install or use the Enphase Energy System equipment if it has been damaged in any way.

Contents

Enphase Energy System with IQ Battery 10C

4th-generation Enphase Energy System

System information

Key components

IQ Battery 10C

The IQ Battery 10C is an all-in-one, AC-coupled energy storage system. It is built with safe lithium iron phosphate chemistry and has a compact, modular design. You can add more batteries to your system to scale it up to meet your growing energy needs.

IQ8 Series Microinverters

Under each solar panel lies an Enphase microinverter that converts DC power generated by the panel into AC power that your home can use. It has superfast response times to changing loads and grid events.

IQ Meter Collar

The Enphase IQ Meter Collar is designed to make whole-home backup accessible for every homeowner. By eliminating the need for a backup subpanel and the associated labor costs of load rewiring, the IQ Meter Collar streamlines installation and ensures seamless integration with Enphase Energy Systems.

IQ Combiner 6C

The IQ Combiner 6C provides the equipment required for the interconnection of a new solar and storage installation. It connects IQ Microinverters, IQ Batteries, and EV chargers, and also comes with in-built load control. With integrated CTs and PLC communication improvements, it reduces installation complexity and saves wiring time.

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.

Component introduction

IQ Battery 10C

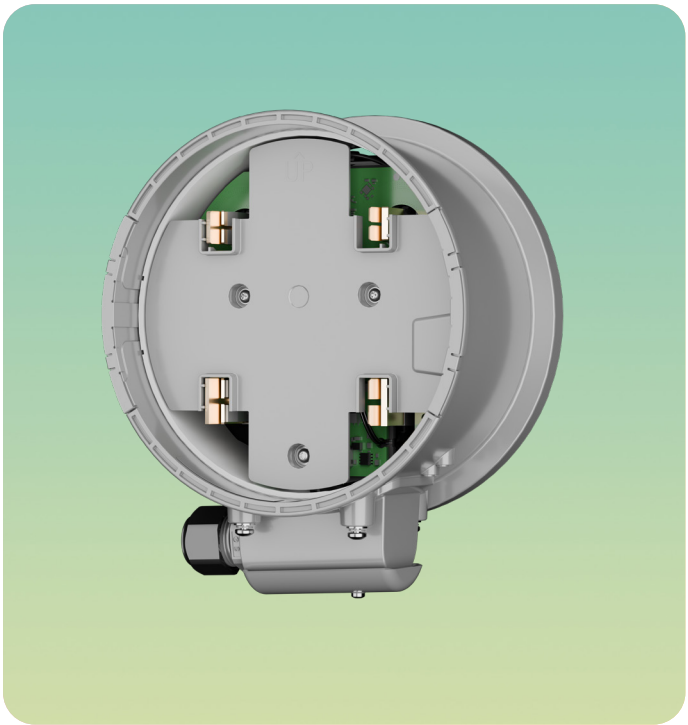
The IQ Battery 10C integrates 240 V and 120 V microinverters, providing backup functionality and removing the need for additional neutral-forming hardware. It provides a total usable energy capacity of 10 kWh and delivers 7.08 kW of continuous power, easily supporting heavy loads such as HVAC units and pool pumps. A modular architecture allows for easy expansion as energy needs evolve.
Its compact design requires less wall space while offering double the capacity of previous models. The system uses safe lithium iron phosphate (LFP) chemistry, which is cobalt-free. The battery is UL 9540A certified for safety and reliability and supports flexible installation with wall bracket and floor pedestal options.

IQ Combiner 6C

- The IQ Combiner 6C consolidates interconnection equipment into a single enclosure, simplifying the installation of IQ Series Microinverters and IQ Batteries by offering a consistent, pre-wired solution for residential applications. The IQ Combiner 6C is compatible with the IQ Battery 10C and IQ Meter Collar, serving as an all-in-one solution that includes breaker spaces for PV, battery, and an EV charger. It integrates a load controller with breaker spaces for loads and includes pre-installed and pre-wired current transformers (CTs) for PV and battery metering.
- The IQ Combiner 6C, together with IQ Series Microinverters, IQ Meter Collar, and IQ Battery 10C provides a complete, backup-enabled Enphase Energy System.

IQ Meter Collar

The Enphase IQ Meter Collar is designed to make whole-home backup accessible for every homeowner. By eliminating the need for a backup subpanel and the associated labor costs of load rewiring, the IQ Meter Collar which comes with built-in consumption monitoring, streamlines installation and ensures seamless integration with Enphase Energy Systems.



System configurations

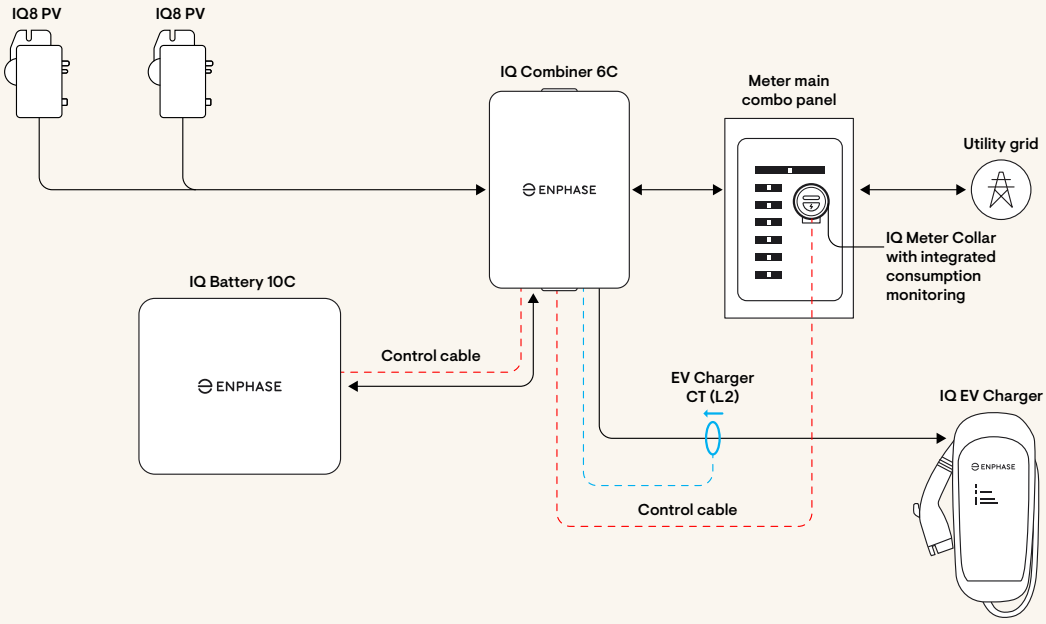
Enphase Energy Systems with IQ Battery 10C are typically designed for one of the following configurations:

- **Partial home backup** with three smart profiles: AI Optimization, Self-Consumption profile, and Full Backup profile.
- **Whole home backup** with three smart profiles: AI Optimization, Self-Consumption profile, and Full Backup profile.
- **Solar + Battery (no backup)** with one smart profile: Self-Consumption profile.

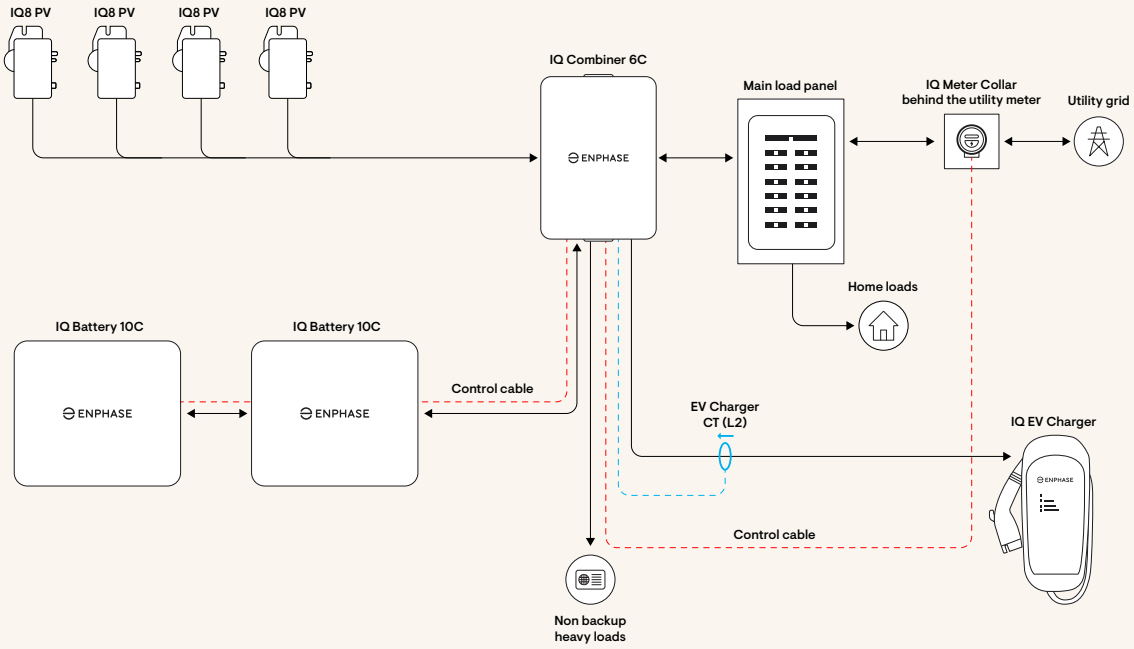
Whole home backup

Whole home backup can offer homeowners our most robust set of solar benefits—utility bill savings, more energy independence, and extended resilience during longer-term grid outages.

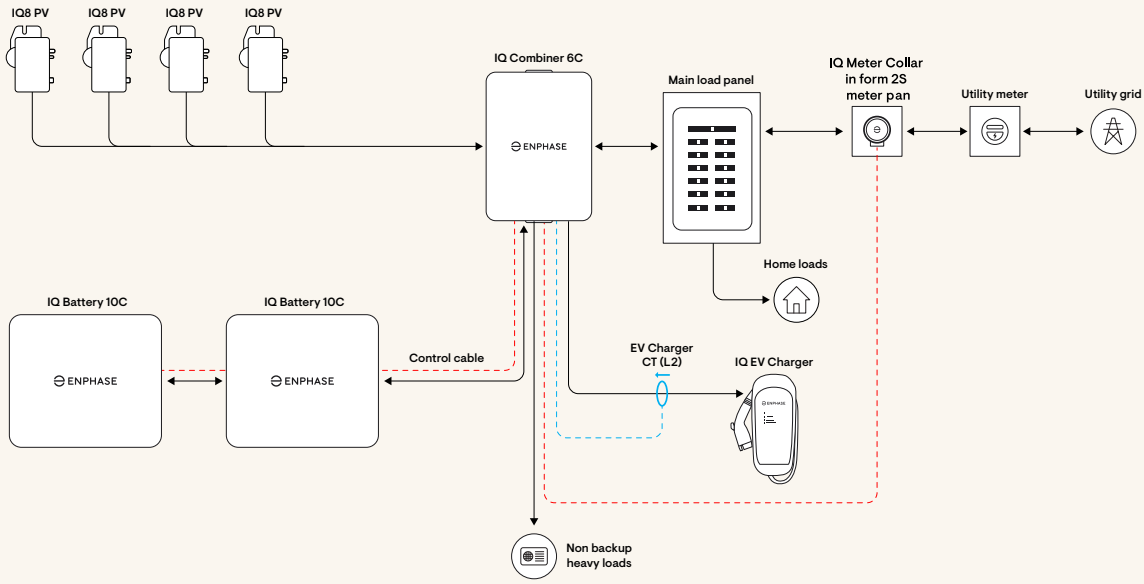
In a whole home backup system, all the home loads are backed up or controlled via load control. The IQ Microinverters power the home with solar energy generated by the panels whenever possible. Excess energy is either exported back to the grid in exchange for utility bill credits or used to charge the batteries. The solar energy stored in the batteries can then be used when the sun is not shining or when the prices of grid power are highest. The system can also export energy to the grid at peak times to maximize utility bill savings. The system's IQ Batteries also provide reliable backup to keep electricity flowing when the grid goes down, helping homeowners stay prepared for storms, grid maintenance issues, or other unforeseen events. Depending on the homeowner's power needs and the amount of battery capacity they choose, the system can help sustain off-grid operation for extended periods.



In states with all-in-one panels or meter main combos with utility approval the IQ Meter Collar can be installed underneath the utility meter significantly reducing installation cost and complexity.



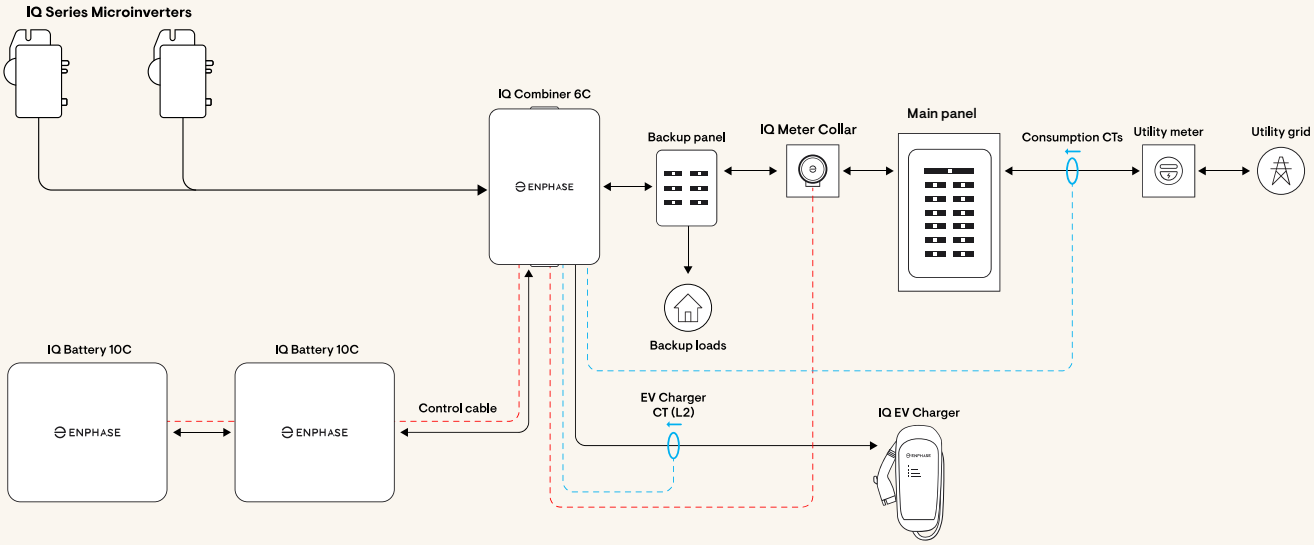
In states with utility approval and standalone meter pans the IQ Meter Collar can be installed underneath the meter reducing installation cost and complexity.



In states without utility approval, the IQ Meter Collar can be installed on standalone meter pan downstream of the utility meter.

Partial home backup

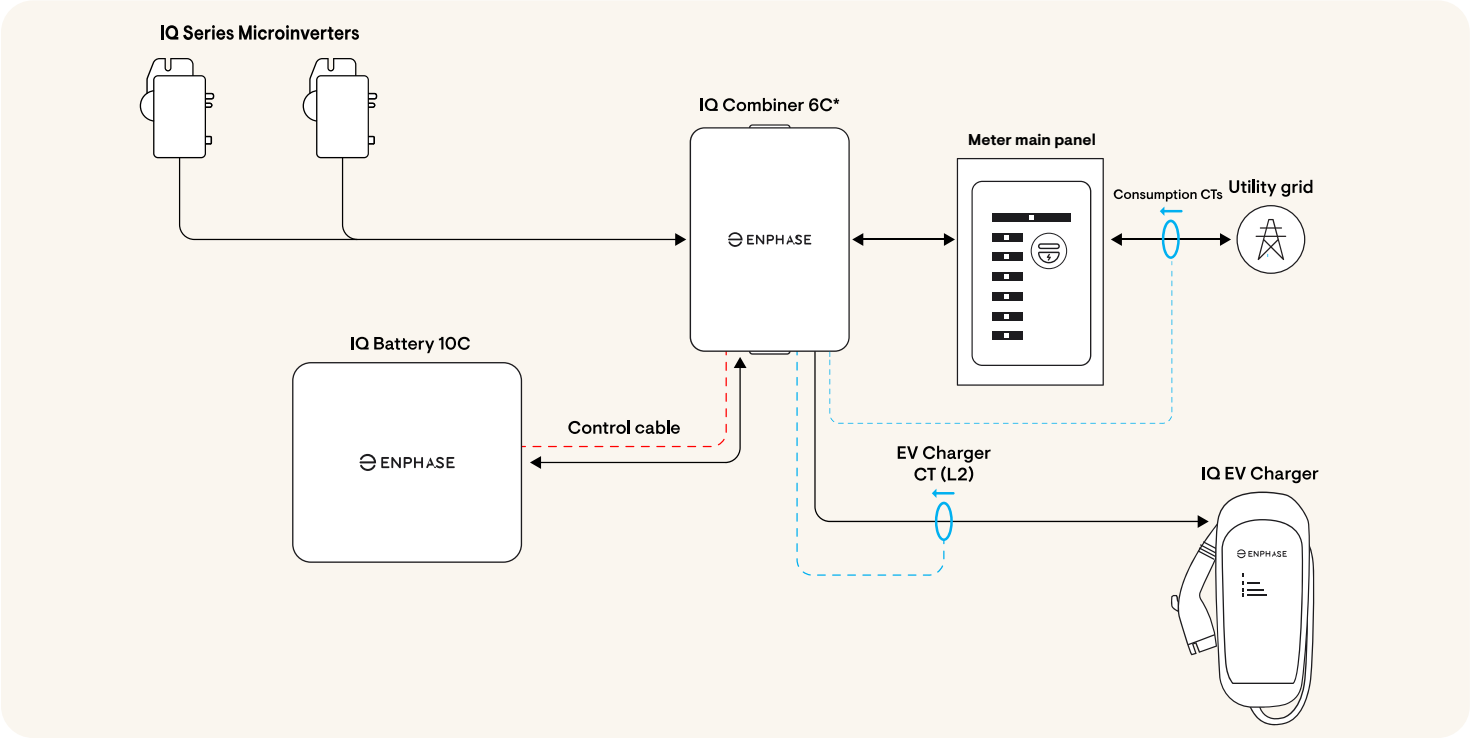
Partial home backup is ideal for homeowners who want to power essential appliances, day or night, during a grid outage. If you have a partial home backup configuration, your Enphase Energy System has been sized to provide power for the appliances that you identified as “essential” in discussions with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



Solar + Battery without backup

Pairing IQ Series Microinverters with IQ Batteries, this grid-tied configuration combines solar and storage to help maximize financial benefits with a lower upfront investment. Though this configuration does not offer backup capability, it makes a home more energy-independent and can offer significant long-term savings by minimizing a homeowner's utility bills.

In a Solar Plus Battery system without backup, the microinverters power the home with solar energy generated by the panels whenever possible. Excess solar energy is either exported back to the grid in exchange for utility bill credits or used to charge the batteries. The solar energy stored in the batteries can then be used when the prices of grid power are highest or exported to the grid at peak times for maximum financial benefit.



System monitoring and management

Make, use, save, and sell your 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 ensure that status updates are available and accurate in the Enphase App.

Getting started

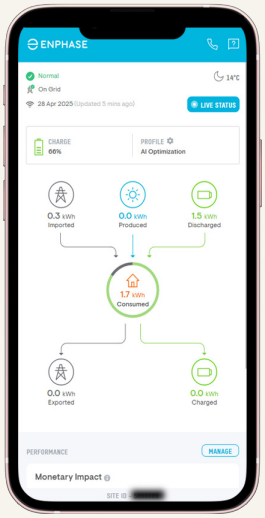
Instructions to activate your Enphase App account are sent to you at the email address you provided to your installer. Look for an email with the subject line “Activate Your Online Solar Monitoring Account.” from donotreply@enphaseenergy.com. You will also receive monthly emails from this address. Be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

Enphase App

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

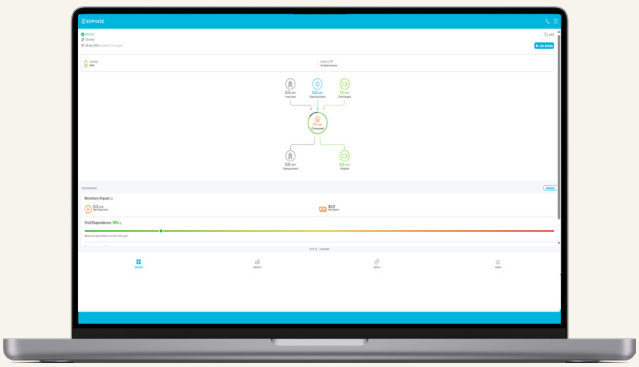
GET IT ON Google Play

Download on the App Store



Enphase Web Application

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



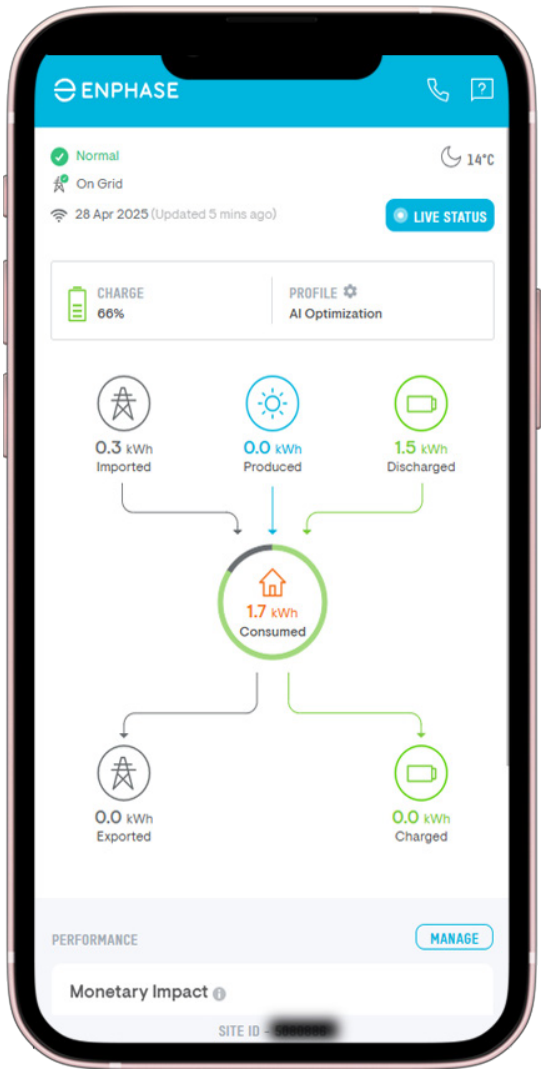
System operation

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.

You can set your Enphase IQ Battery 10C to one of three different smart profiles:

- AI Optimization profile
- Self-Consumption profile
- Full Backup profile



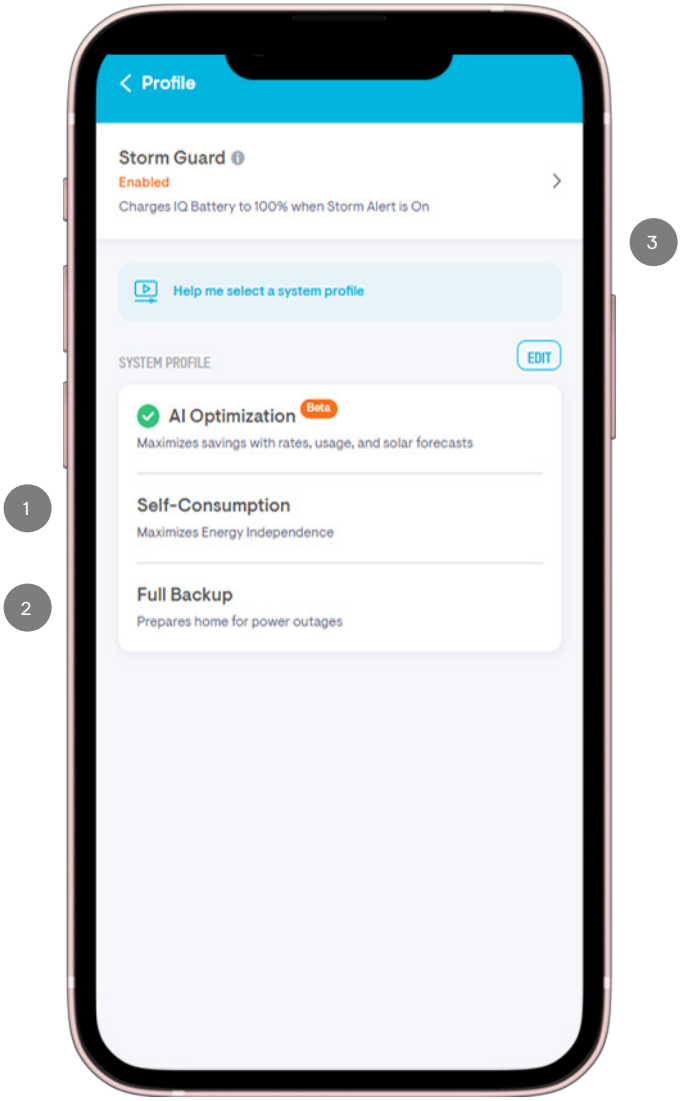
1. In the upper left corner of the Status section, you can see the **operating status** of your system and whether your system is **On Grid** or **Off Grid**.

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

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

AI Optimization*

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 electricity demand, the solar energy produced is exported to the grid to maximize 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 10C capacity will be held in reserve for backup power in case of a grid outage. This is referred to as your reserve capacity.

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

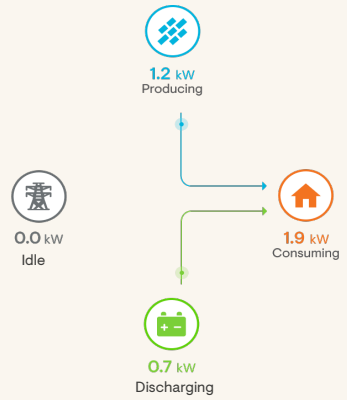
2. You can edit the **reserve capacity** of your IQ Batteries in AI Optimization profile. The reserve capacity refers to the percentage of your battery's capacity that you want to reserve for outages. For example, if the reserve capacity is set to 30%, your IQ Batteries will not discharge below 30% unless 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.

3. The Enphase App comes with the Storm Guard feature that monitors weather conditions in your area. You can toggle on Storm Guard to automatically switch your smart profile to Full Backup profile when severe weather conditions are detected. Storm Guard automatically reverts to Self-Consumption profile when the storm threat passes.

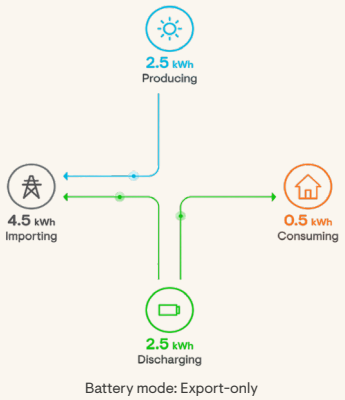
What happens when an outage occurs?

When an outage occurs, your batteries will discharge to power your home.

* The AI Optimization profile is available only to homeowners in California. This profile is planned to roll out to other regions using a time-of-use rate schedule in the future.



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



Battery mode: Export-only

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

Operation in AI Optimization

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 prioritized 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 applies here.

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

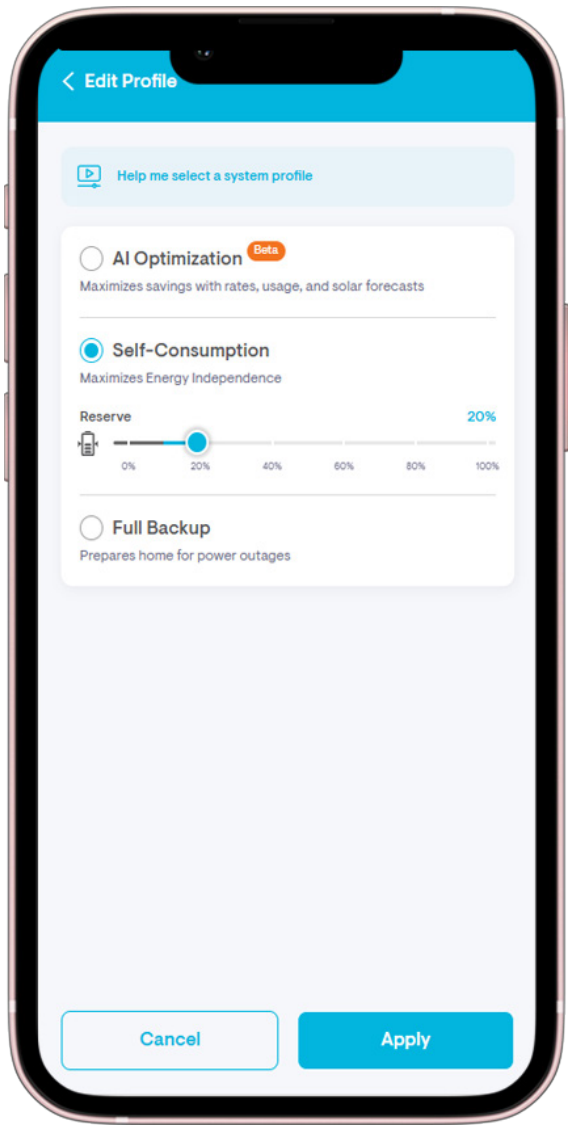
1. **Battery discharge**
2. **Solar (if available and needed to meet the home energy demand)**
3. **Grid import**

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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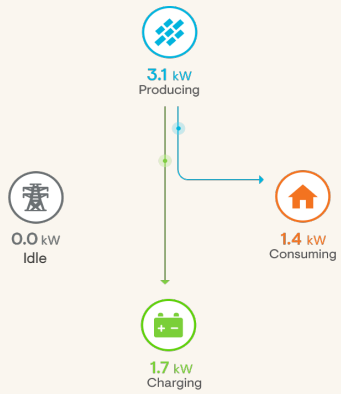
Self-Consumption profile

Self-Consumption profile always prioritizes your consumption or storage of your produced solar energy over exporting it to the grid. To complete the Self-Consumption profile configuration, you must decide how much of your IQ Battery 10C capacity will be held in reserve for backup power in case of a grid outage. This is referred to as reserve capacity.

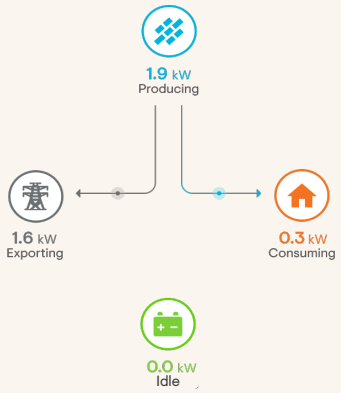
In jurisdictions where solar export is not allowed, the produced solar energy is never exported to the grid. Instead, during daylight hours, your solar energy is used to power your home or charge your batteries, regardless of peak or off-peak hours.

1 Select **Self-Consumption** profile if you wish to use as much as possible of your generated energy at home.

Self-Consumption profile is only available for Enphase Energy Systems paired with Enphase microinverters.



Solar production is powering the home and charging the batteries

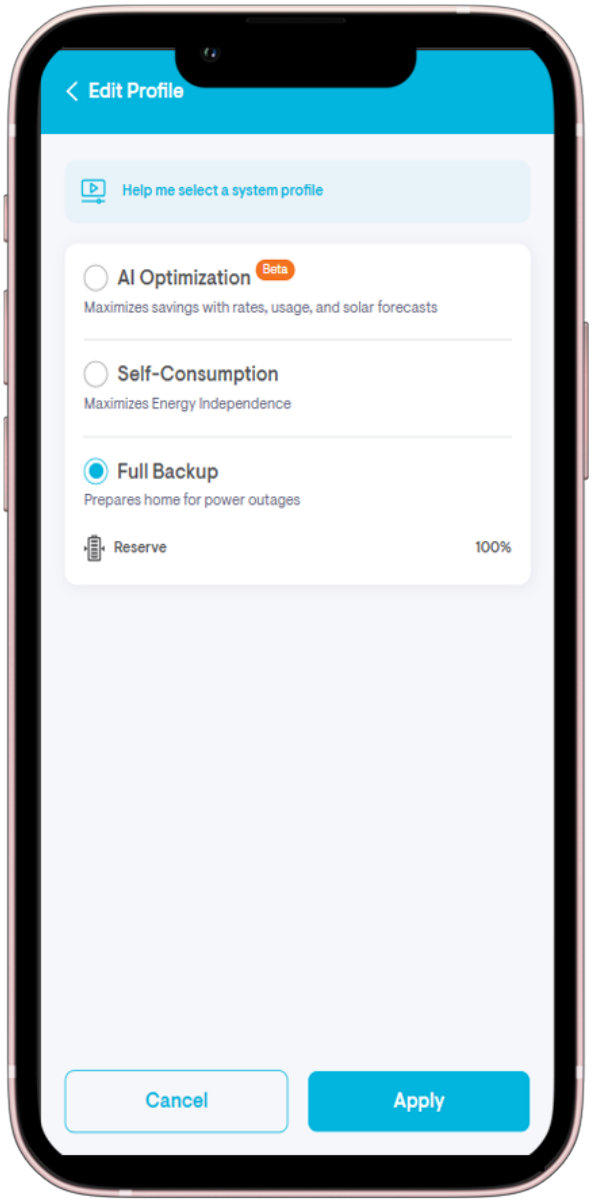


Solar production is powering the home, and because the batteries are fully charged, excess generation is exported to the grid.

Operation in Self-Consumption profile

Normal operation in the Self-Consumption profile always prioritizes the consumption or storage of solar production 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, regardless of peak or off-peak hours.



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Full Backup profile

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 discharge when the grid is available.

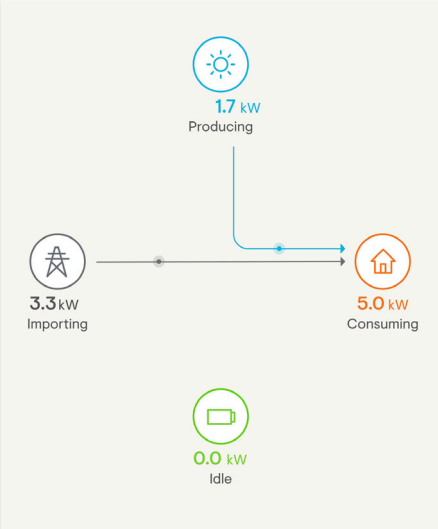
Reserve capacity

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.

What happens when an outage occurs?

When an outage occurs, your batteries discharge to power your home.

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



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

Operation in Full Backup profile

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:

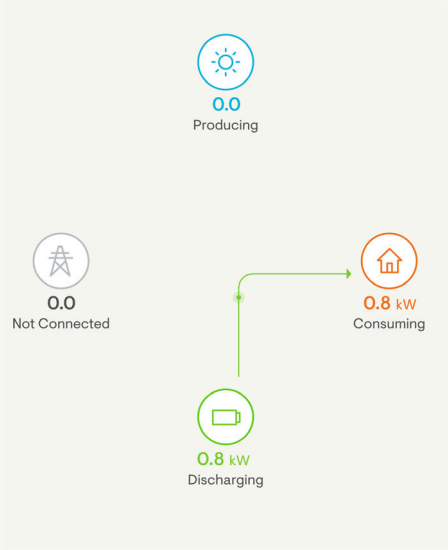
1. Charge your battery
2. Power your home
3. Export to the grid

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

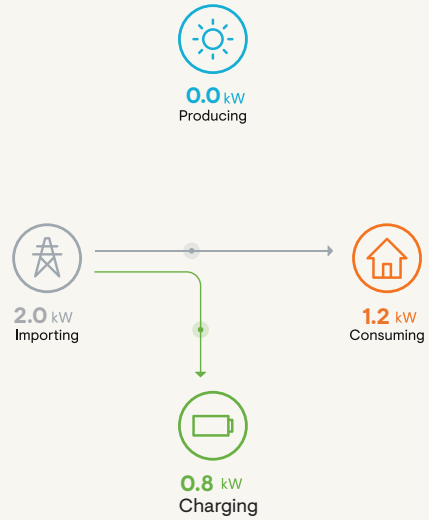
When there is no sunlight, your home uses electricity from the grid.

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**.



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 until it runs out of charge. Once the grid is back online, the battery will start charging from the grid if the "charge from grid" setting is enabled to restore it to 100% SOC.

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.

Troubleshooting

Automatic battery charge recovery

Your system includes an automatic state-of-charge recovery feature. When running off-grid if the battery energy or state-of-charge is low, the system automatically shuts down the microgrid, waits for sunlight, recovers energy from PV, and then restores the microgrid without needing installers or electricians to visit.

When the battery is at approximately 10% charge (5% if using IQ8 PV only), the backup relay in the IQ Combiner 6C opens and the battery conserves its remaining energy until there is sunlight available.

In the morning or during daylight hours, the battery attempts to restart by forming a microgrid at increasingly long intervals - 10, 20, 40, and then 120 minutes. On each restart the battery waits up to 6 minutes or until it loses 0.5% of SoC and then shuts down until the next restart. The battery charges with the available sunlight while the backup relay stays open to ensure the home loads are disconnected. This is done to ensure that even when there is very low PV power, the battery still charges since the PV does not need to power the home. This ensures every Watt of PV power is utilized. Once the battery reaches 30% state-of-charge the backup relay closes restoring the microgrid and powering the backed-up home loads.

Note that while recovering charge your home appliances will be turned off. This is intentional to utilize all PV and recover charge as fast as possible. The Enphase App may display "Charge Recovery" while the routine is active use backed-up circuits throughout circuits will power up automatically and resume normal operations once enough charge is reached, and no manual intervention is required.

In extended grid outages or sunlight unavailability, the battery will stop attempting restarts. At 2% or lower SoC, the battery shuts down completely to prevent damage and waits for grid power or daylight before attempting another restart. In such a situation, if the battery remainsat 0% SoC after a full day of good sunlight or once the grid service has returned, you should contact your installer for assistance.

NOTE: Automatic charge recovery works with any PV. With IQ8 PV, the PV starts on its own (Sunlight Jump Start) in the morning and the battery can recover charge even when its SoC is at 2% or lower.

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 the batteries becoming fully discharged during a power outage, by a large electrical load overloading the batteries, by a failure of the communication systems, or another equipment failure. Recovery steps following system shutdown vary depending on the cause of the shutdown.

Shutdown due to battery depletion

If the Enphase App indicates that your battery is at 10% or a lower state of charge, your battery has shut down and will restart automatically during the day to recharge from solar power. The system automatically recharges your batteries during the outage when solar production is greater than what your home is consuming.

If solar production is available and the batteries do not recover, follow the instructions on page 28 to restart the batteries by cycling the DC switches on IQ Battery 10C.

Shutdown due to a large electrical load

If the Enphase App shows that your IQ Battery 10C storage system is greater than 10% state of charge, a large electrical load (or multiple simultaneous loads) may have caused your microgrid to collapse.

If the shutdown occurred quickly after a large appliance or motor started up, this is the most probable scenario. Air conditioners and electric dryers are two examples of appliances that require a great deal of power to start.

If you suspect that a specific load or a combination of loads is overloading the batteries, you should immediately shut OFF the load(s) and allow the batteries to restart automatically.
Watch the video talking about best practice https://youtu.be/4WMhtPMSaZc.

Managing loads to prevent system shutdowns

Well pumps, sump pumps, pressure pumps, and AC electric motors can be some of the most challenging loads to run. This is due to the large start-up power surge requirements.

One challenge with pumps is that they often turn ON when other large loads are also running. For example, during cooking, it is common to run large electric loads like ovens while also using a lot of water in the kitchen.
Your Enphase Energy System may be sized to run the oven on its own, and it may be able to start the pump, but it may not be sized to run both loads at the same time. One option would be to shut OFF the oven long enough to allow the pump to start up. After the pump is started, it may be possible to turn the oven back ON.

As your needs and energy consumption change over time with, for example, the introduction of new appliances or the addition of new members of your household, you may wish to verify that your system is sized to handle your new energy demands.

You can better understand what is required for large loads by accessing LIVE STATUS in the Enphase App to see how much power your home consumes during outages.

Shutdown due to communications system failure

This is a very unusual failure scenario because the Enphase Energy System does not shut down on communication loss between components.

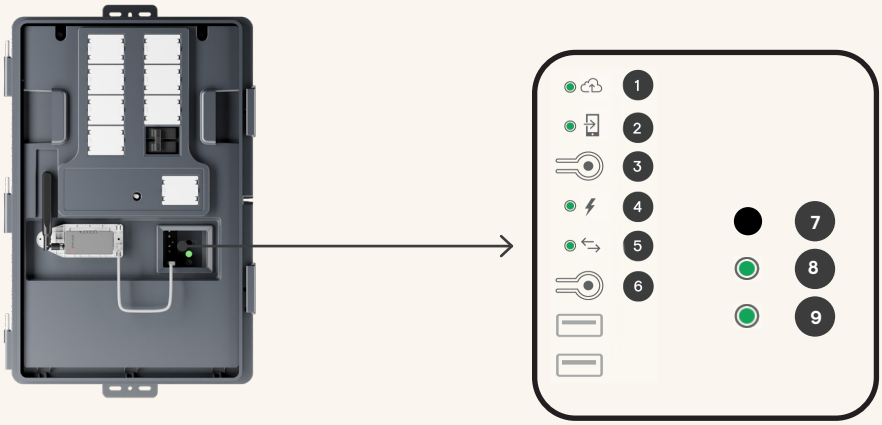
If your Enphase App shows communications failure between system components such as IQ Batteries and the IQ Gateway, give the system up to 15 to 20 minutes to recover on its own. The Enphase Energy System reconnects automatically and recovers from communications failures.
If more than 20 minutes have elapsed and you do not see communication established, contact Enphase Support. In the event of a power outage, you can also follow the instructions on Access the IQ Battery 10C DC switch to toggle the DC switch on an IQ Battery 10C to force a restart.

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, reconnect the IQ Gateway to the internet using Wi-Fi, hard-wired Ethernet, or a cellular network.

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

For more information on IQ Gateway LEDs and buttons, see Gateway LEDs and buttons inside the IQ Combiner 6C.

Gateway LEDs, buttons, and breakers inside the IQ Combiner 6C



1 ENPHASE INSTALLER PLATFORM (EIP) COMMUNICATION LED

LED COLOUR	LED STATUS	EVENT
	Green	IQ Gateway is connected to Enphase Installer Platform (EIP)
	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

LED COLOUR	LED STATUS	EVENT
	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

EVENT
To be used only by the installer to configure the system
Starts IQ Gateway's wireless Access Point (AP) to connect a mobile phone directly

4 POWER PRODUCTION LED

LED COLOUR	LED STATUS	EVENT
	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 IQ Gateway restarts		

5 DEVICE COMMUNICATION LED

LED COLOUR	LED STATUS	EVENT
	Flashing green	IQ Gateway is scanning for microinverters
	Green	All microinverters are communicating with IQ Gateway
	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

EVENT
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 RESET BUTTON

EVENT	DESCRIPTION
Short press	Resets the IQ Gateway
Long press	Resets the Combiner Controller Board (CCB)

8 COMBINER STATUS (CS) LED

LED COLOUR	LED STATUS	EVENT
	Green	No signaling error between components
	Off	Grid and DER power not available
	Flashing Red	Control signaling error between components
	Flashing blue	Internal signaling error between components

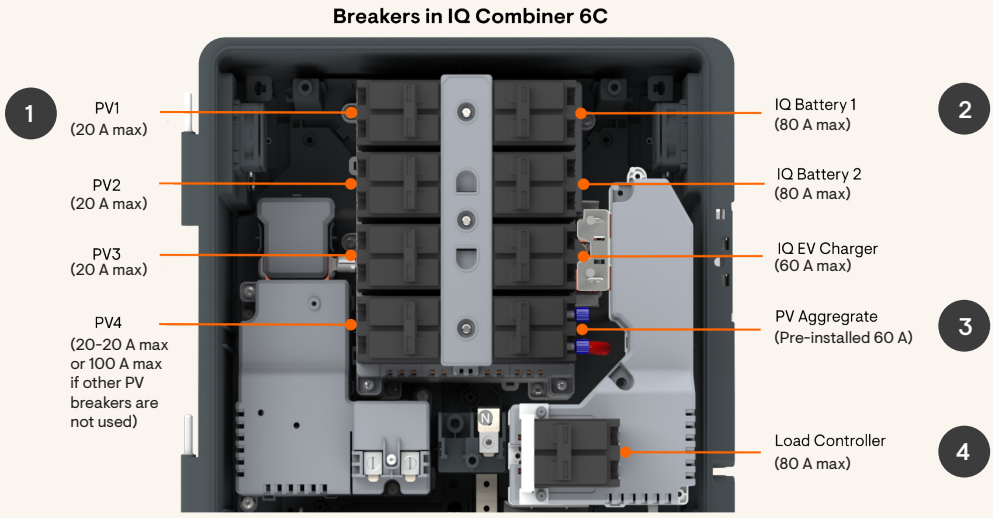
9 SHUTDOWN STATUS (SS) LED

LED COLOUR	LED STATUS	EVENT
	Flashing green	System Shutdown not initiated, DER relay opened
	Green	System Shutdown not initiated, DER relay closed
	Off	System Shutdown initiated, DER and load relays opened
	Red	System Shutdown self-test fails
	Flashing red	System Shutdown mechanism error
	Rapid flashing red	System Shutdown not initiated, DER or load relay is stuck open/closed
The Shutdown Status (SS) LED may act as the rapid shutdown and emergency shutdown indicator, depending on the system configurations installed.		

(!) **NOTE:** On power-up, LEDs an take up to 30 seconds to glow.

(!) **NOTE:** After powering off the gateway, wait for 2 minutes before powering it back on.

Breakers in IQ Combiner 6C



1

The PV breakers support up to 5 branch circuits, allowing for the safe and controlled distribution of solar-generated power

2

The battery breakers ensure proper energy flow between storage and household loads

3

The aggregate PV breaker, which comes pre-installed in the enclosure, can act as a rapid shutdown device

4

The load controller is integrated into the IQ Combiner 6C, which helps you manage power distribution efficiently

IQ Gateway communications troubleshooting

If the IQ Gateway has stopped reporting to the Enphase App, see Reconnecting your Envoy S or IQ Gateway.

If the IQ Gateway is not powered or has failed, the IQ Batteries do not discharge while the system is on the grid and may shut down after a prolonged loss of communication with the IQ Gateway if the system is off-grid. If IQ Gateway fails, contact your installer to submit a warranty claim for replacement (where applicable).

Does the Enphase App show that the IQ Gateway is not reporting, and is the top-most LED (Network communications LED) on the IQ Gateway lit red?

The Network communications LED (top-most LED) in the IQ Gateway in the IQ Combiner 6C is lit solid green when connected to the Enphase App.

If the Network communications LED is not solid green, then you may need to reconnect the IQ Gateway to the Enphase App using Wi-Fi, hard-wired Ethernet, or a cellular network.

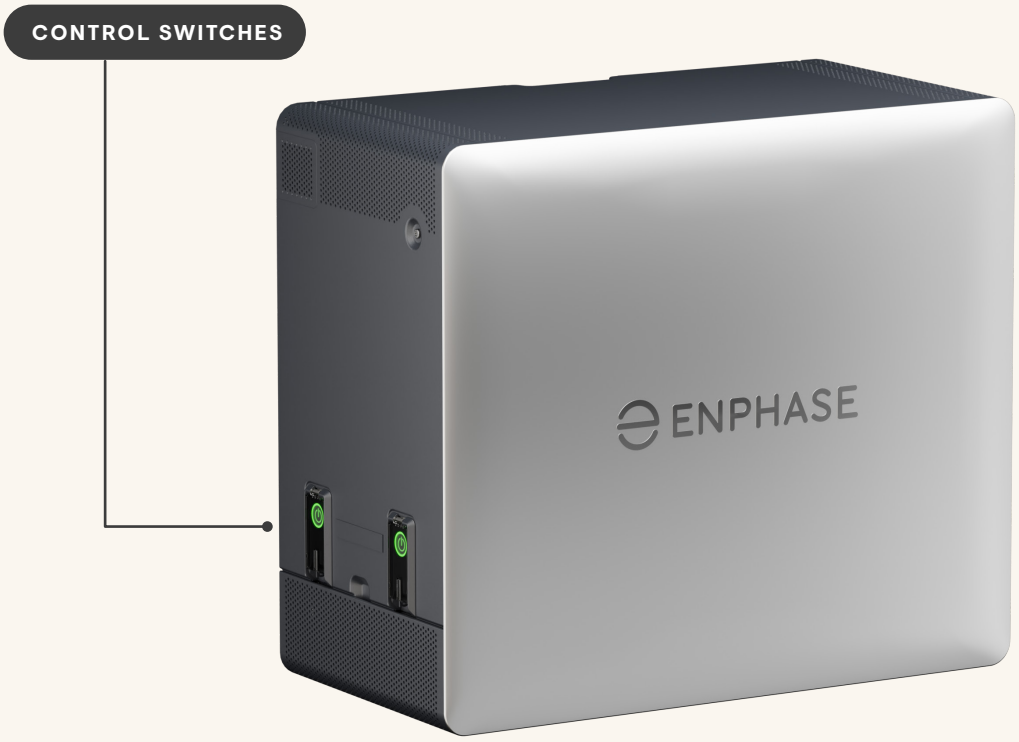
For more information on IQ Gateway LEDs and buttons, see Gateway LEDs and buttons inside the IQ Combiner 6C.

For more information on how to access monitoring when there is no connectivity, see Monitoring your Enphase system without connectivity.

Access the IQ Battery 10C DC switch

In the unlikely event that a battery does not automatically recover from an overload or failure scenario, you must access the battery's DC switch to manually reset it.

Each IQ Battery 10C consists of two control switches. Press and hold down each control switch for 5 seconds. Wait for up to 30 seconds while the LED is blinking red. Once the LEDs of all batteries have turned OFF, turn off the IQ Battery breaker(s) in the IQ Combiner 6C.



When to contact Enphase Support

If your system is not operating properly or has shut down unexpectedly, contact Enphase Support for guidance at https://support.enphase.com.

Your support agent will ask for details on the status of LEDs in your system. Be prepared to provide information about the IQ Battery 10C storage system LED indicators and the IQ Combiner 6C (IQ Gateway) LED indicators.

You can check and record the color of all the LEDs on the front of the IQ Battery 10C units using the following table. If the IQ Battery 10C lights are solid or pulsing green or blue, the batteries are operating.

IQ Battery 10C LED state

RAPIDLY FLASHING YELLOW

Starting up/Establishing communications

SOFT PULSE BLUE

Discharging

SOFT PULSE GREEN

Charging

SOLID YELLOW

Not operating due to high temperature. See “Troubleshooting”.

RED TRIPLE FLASHES

DC switch OFF

RED DOUBLE FLASHES

Error. See “Troubleshooting”

RED ONE-SECOND FLASH

ESS Emergency Shutdown mode

SOFT PULSE YELLOW

Sleep mode

SOLID BLUE OR GREEN

Idle. Color transitions from blue to green as the state of charge increases. Check Enphase Installer Platform for charge status.

OFF

Not operating

Safety information

Read this first

This manual describes the safe use of the Enphase Energy System with IQ Batteries for a system owner. Do not remove the dead fronts (plastic guards inside the enclosure) from the IQ Combiner 6C. Do not open the IQ Battery 10C unit.

Safety and advisory symbols

To reduce the risk of electric shock and ensure the safe installation and operation of the Enphase Energy System, the following safety symbols appear throughout this document to 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.

Safety instructions

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.

If the Enphase Storage equipment generates smoke, remove AC power from the Enphase Energy System, and turn the switch on IQ Battery 10C to the OFF position, following the instructions in the manual.

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

Do not dispose of IQ Battery 10C in a fire or by burning.

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

During use, when stored, or during transport, keep the IQ Battery 10C in an area that is well ventilated, where the ambient temperature is between –20°C to 55°C (–4°F to 131°F).

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

Do not attempt to repair the Enphase Energy System equipment; contains no user-serviceable parts. Do not open the IQ Battery 10C 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 https://enphase.com/support.

The IQ Battery 10C 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.

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

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

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.

Protection against lightning and resulting voltage surges must be in accordance with local standards.

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

IQ Battery 10C and IQ Combiner 6C are intended to operate with an internet connection. A Wi-Fi or Ethernet primary internet connection is required in addition to the cellular modem connectivity to ensure consistent connectivity.

During use, storage, and transport, keep the Enphase Storage equipment:

- Properly ventilated
- Away from the heat, sparks, and direct sunlight
- Away from excessive dust, corrosive and explosive gases, oil, and smoke
- Away from direct exposure to gas exhaust, such as from motor vehicles
- Free of vibrations
- Away from falling or moving objects, including motor vehicles
- At an elevation of fewer than 3,000 m (9,842 ft) above sea level
- In a location compliant with fire safety regulations (has a smoke detector)
- In a location compliant with local building codes and standards

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.

Read this entire document before using Enphase Energy Systems.

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

Revision history

REVISION	DATE	DESCRIPTION
USG-00129-1.0	June 2025	Initial release.

USG-00129-1.0

ENPHASE.