



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



Corporate headquarters contact information

enphase.com/en-us/support/contact

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://support.enphase.com/s> for the latest information.

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

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Audience

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

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.

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Enphase Energy System with IQ Battery 5P



Enphase Energy System includes the following products



System information

Key components



IQ Battery 5P

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



IQ System Controller 3/3G

The IQ System Controller connects the home to the utility grid, IQ Batteries, and rooftop solar. IQ System Controller seamlessly transitions the home energy system from grid power to back up power in the event of a utility grid failure.



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.



IQ Microinverters

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



IQ Combiner 5/5C

The IQ Combiner provides all the necessary equipment to complete interconnection for a new solar installation. It also includes the Enphase IQ Gateway, a network communication device that collects production and performance data from IQ Series Microinverters, IQ Battery, and the IQ System Controller.

NOTE: If your Enphase Energy System has a legacy M Series Microinverters, an Envoy S Metered is used to collect production and performance data from the microinverters, IQ Batteries, and the IQ System Controller.

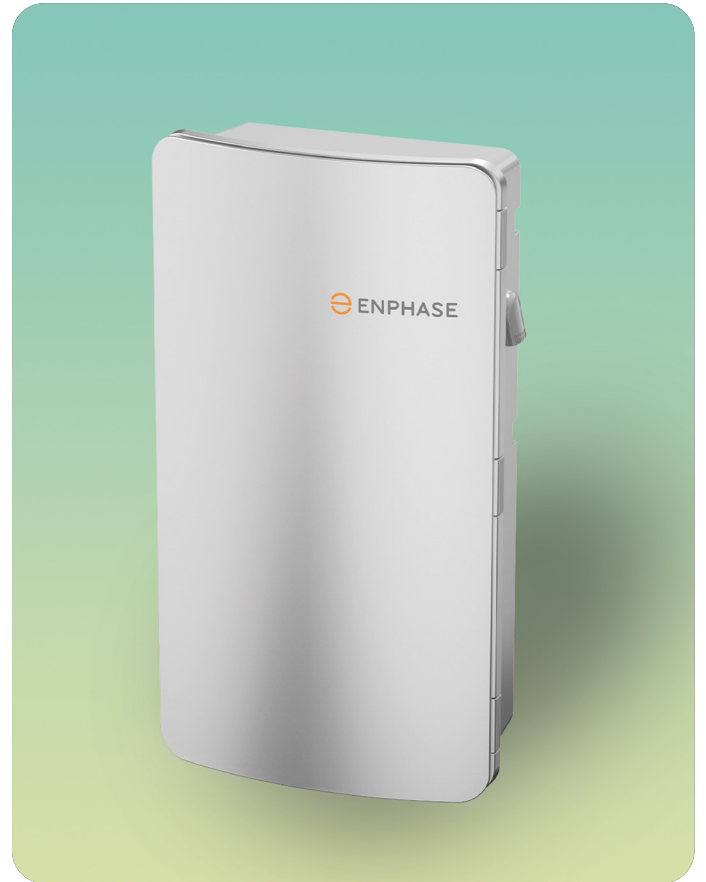
Component introduction

IQ System Controller 3/3G

The IQ System Controller 3/3G senses when the grid goes down and seamlessly transitions the home from grid power to backup power. IQ System Controller 3/3G disconnects the grid and powers the backup loads using the IQ Battery 5P storage system, PV system, and the electrical service panel that houses the circuits that are powered during a grid outage.

IQ System Controller 3/3G serves as the microgrid interconnect device (MID) as required by the National Electric Code (NEC) to operate without grid power. Its neutral-forming transformer (NFT) provides the neutral required for electrical operations in North America to support 120 V and 240 V appliances.

IQ System Controller 3/3G communicates with the IQ Gateway through wired signals.



IQ Battery 5P

The IQ Battery 5P performs two critical functions in your system.

- The battery packs, internal to IQ Battery 5P, store energy for later use, such as during a power outage.
- The IQ Microinverters in the IQ Battery 5P units provide the voltage and frequency necessary for the operation of your solar while running off the grid. Microinverters convert your harvested energy into usable AC electricity for your house. IQ Battery 5P communicates with the IQ Gateway through a wired communication signal.

IQ Combiner 5/5C

If you have an Enphase solar system with IQ Series Microinverters, your system has an IQ Combiner with an IQ Gateway or a standalone IQ Gateway. An IQ Combiner 5/5C consolidates interconnection equipment for your system and houses the following:

- Multiple PV branch circuit breakers to ensure a streamlined installation and interconnection.
- **IQ Gateway:** This collects production and performance data from your Enphase Energy System and IQ Series Microinverters. It then transmits the data to the Enphase Cloud through Ethernet, Wi-Fi, or a cellular network to make it visible in the Enphase App.
- **Wired communication kit:** This creates a wired communication signal between the IQ Gateway, IQ System Controller 3/3G, and IQ Battery 5P.
- **Mobile Connect:** This device reports the performance data from your microinverters, IQ System Controller 3/3G, and IQ Battery 5P units to the cloud through a cellular network in the absence of an Ethernet or Wi-Fi connection.



Envoy S Metered

For Enphase Energy Systems with legacy M Series (M215 or M250) Microinverters, your system has Envoy S Metered. This collects production and performance data from your Enphase Energy System and your M Series Microinverters. It then transmits the data to the Enphase App through Ethernet, Wi-Fi, or a cellular network to make it visible in the Enphase App.

Performance data from your solar array is reported to the Envoy S Metered or IQ Gateway over the AC powerlines in your home. The wireless communication kit and Enphase Mobile Connect cellular modem are vital for keeping your Enphase Energy System online.

Solar + Battery Backup options

Enphase Energy Systems with IQ Battery 5P are typically sized to meet one of the following configurations:

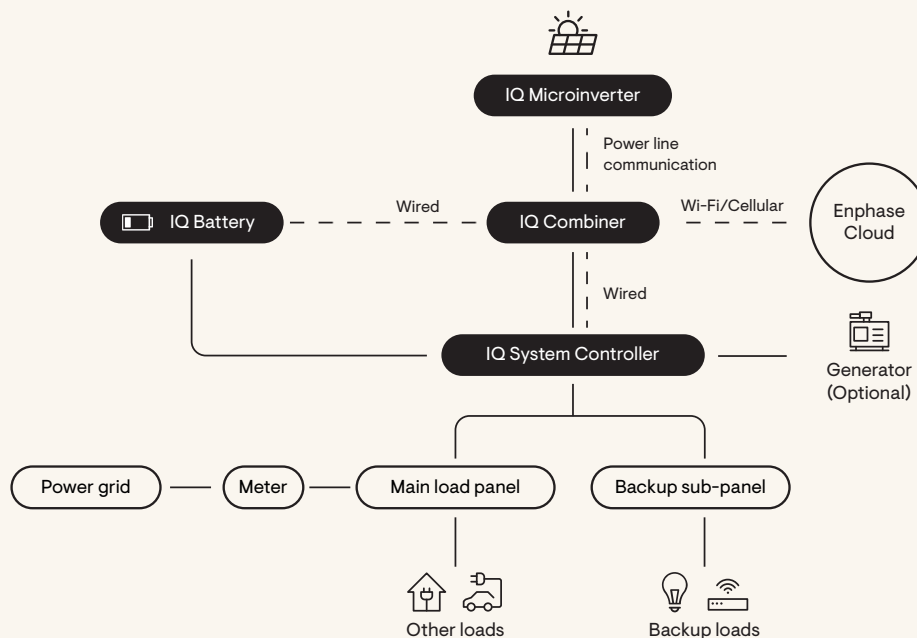
- **Partial home backup** with three smart profiles: Savings profile, Self-Consumption profile, and Full Backup profile.
- **Whole home backup** with three smart profiles: Savings profile, Self-Consumption profile, and Full Backup profile.
- **Solar + Battery (no backup)** with one smart profile: Self-Consumption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

NOTE: The scenarios depicted below show an IQ Combiner 5/5C (with IQ Gateway) and IQ Series Microinverters. If you have legacy M Series (M215 or M250) Microinverters, your system will have a Envoy S Metered. Envoy S Metered may be inside a combiner box.

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.

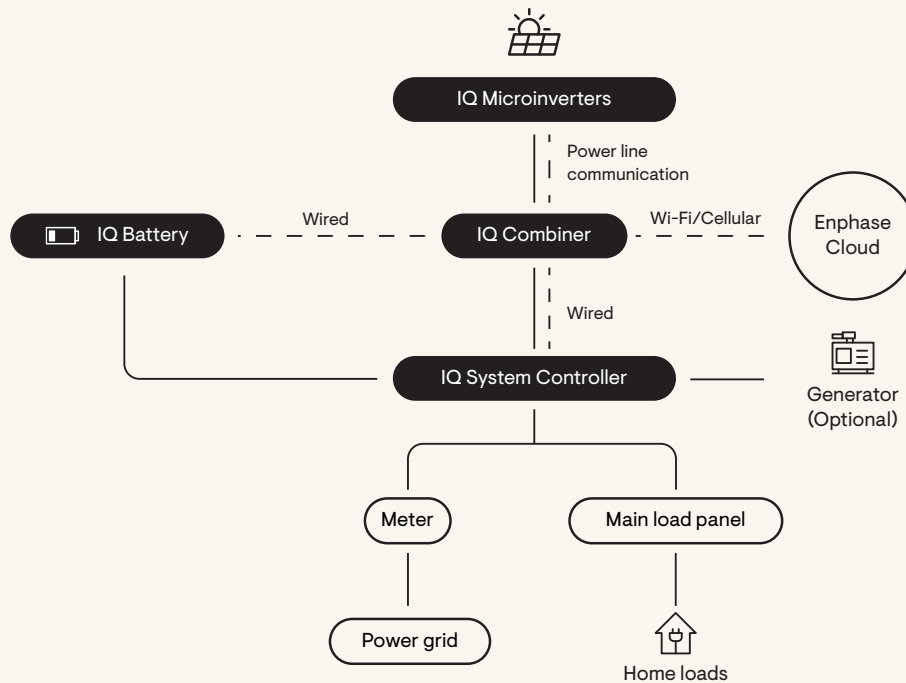


Whole home backup

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, 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.

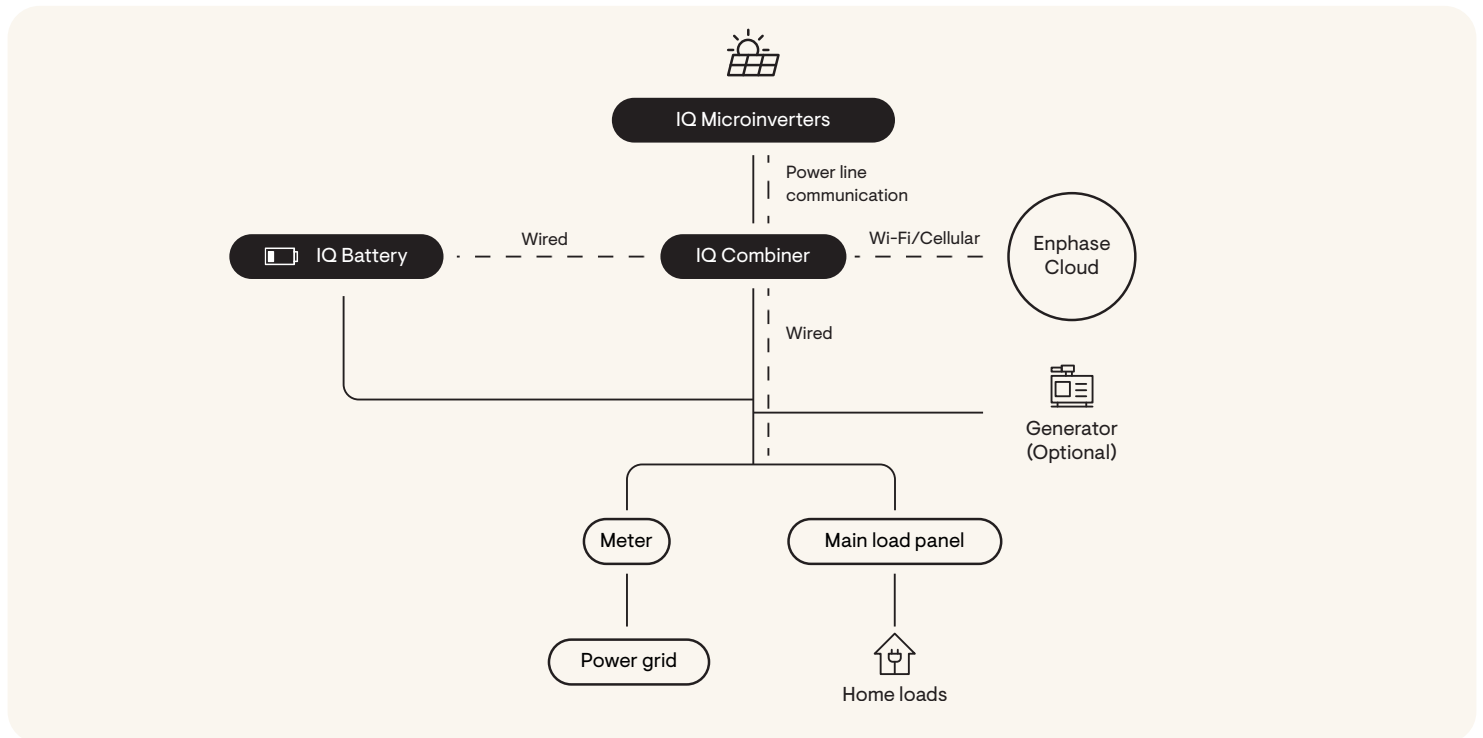


Solar + Battery without backup

Pairing IQ8 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 own 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.

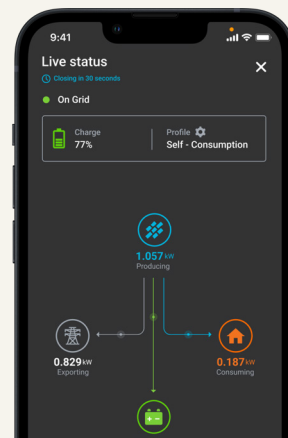
NOTE: Internet connectivity for your Enphase Energy System is essential to ensure that status updates are available and accurate in the Enphase App.

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-of-service>.

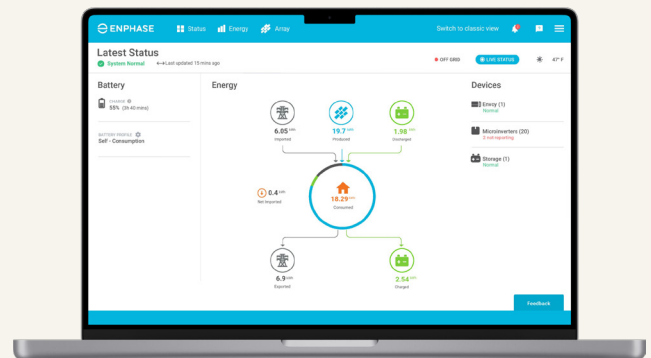
Enphase App

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.



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>



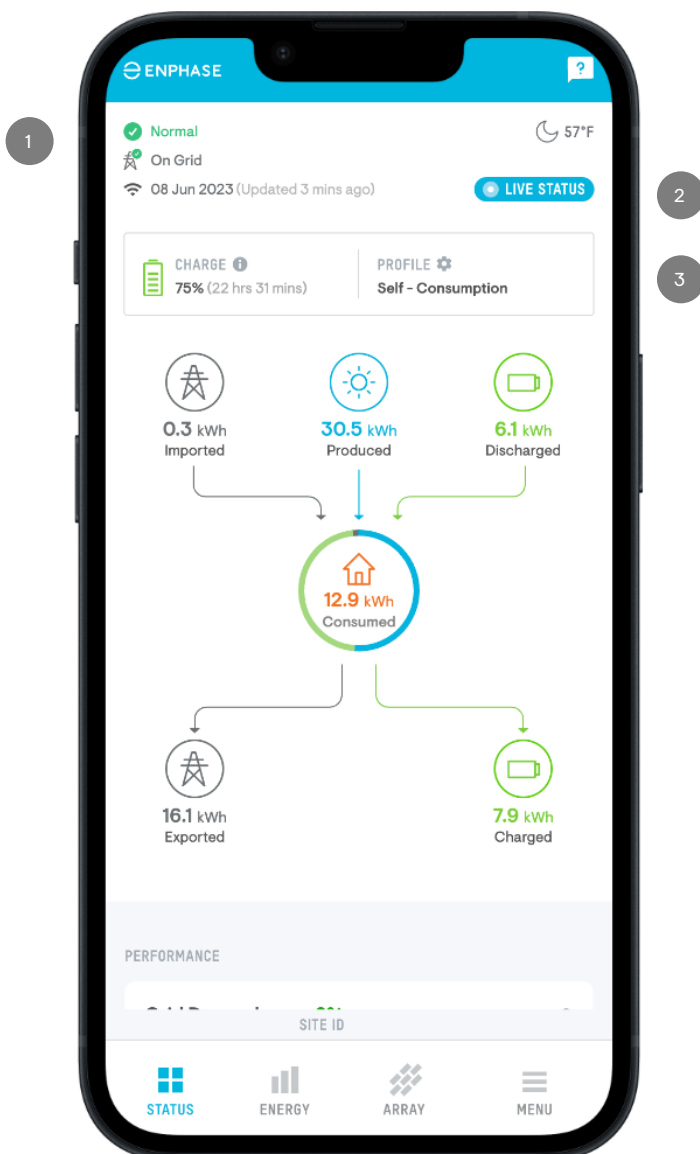
System operation

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 5P to one of three different smart profiles:

- Savings profile
- Self-Consumption profile
- Full Backup profile



1

2

3

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

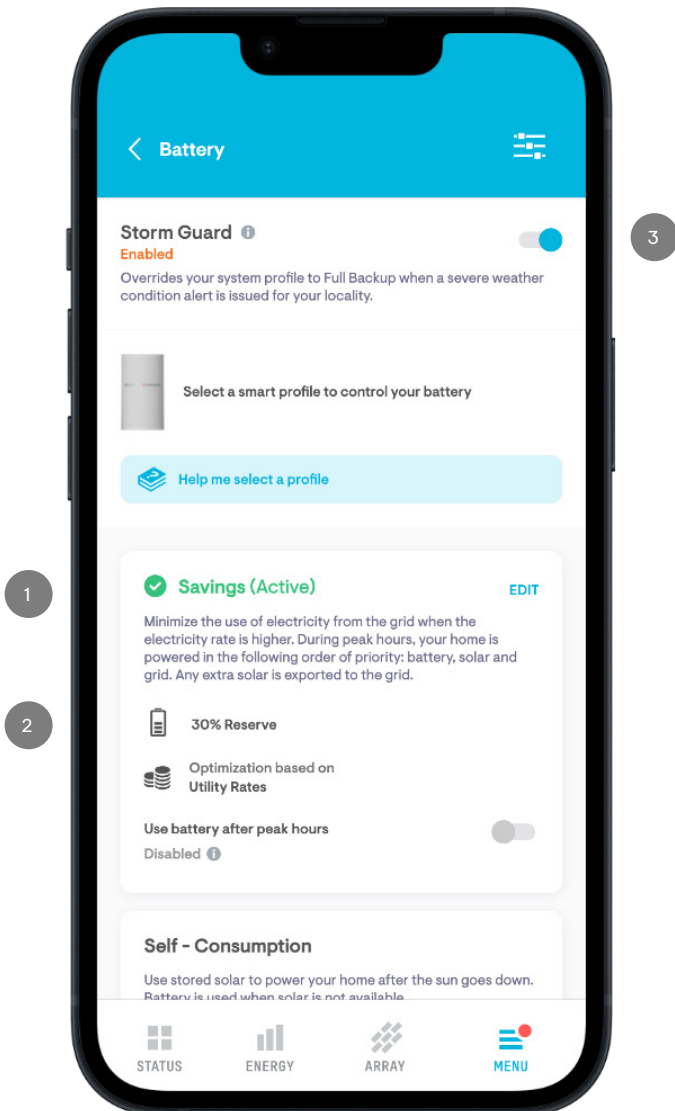
Tap **LIVE STATUS** on the status page to see real-time energy flows for your system.

3

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

Savings profile

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 Savings 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 5P capacity will be held in reserve for backup power in case of a grid outage. This is referred to as your reserve capacity.

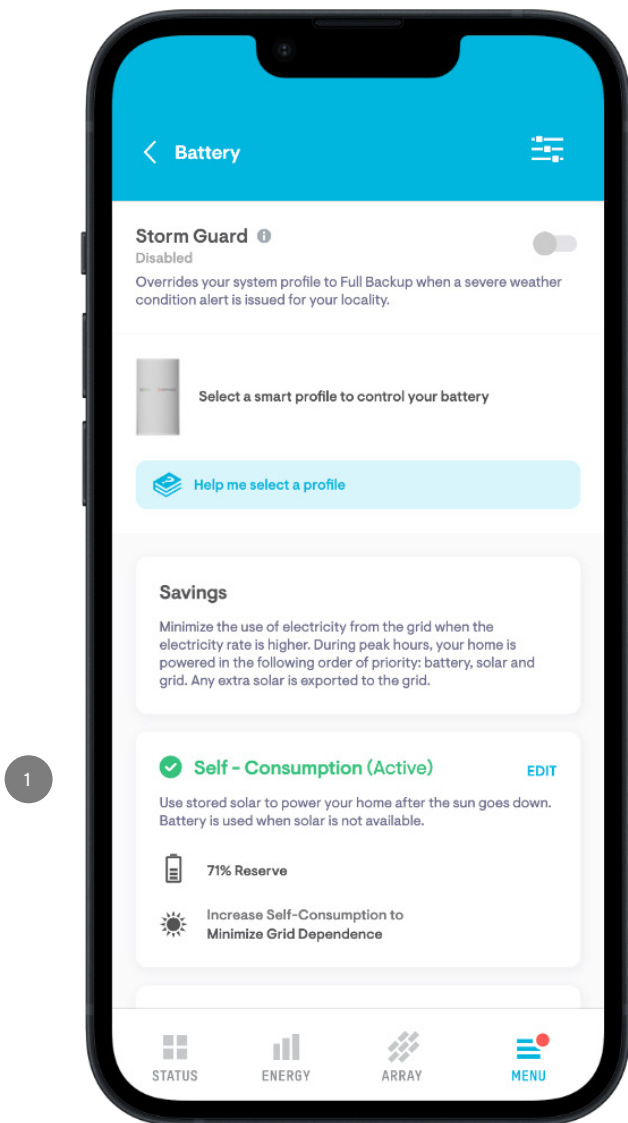
1 Select **Savings** profile if you wish to use your stored energy when electricity rates are highest.

2 You can edit the **reserve capacity** of your IQ Batteries in Savings 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.



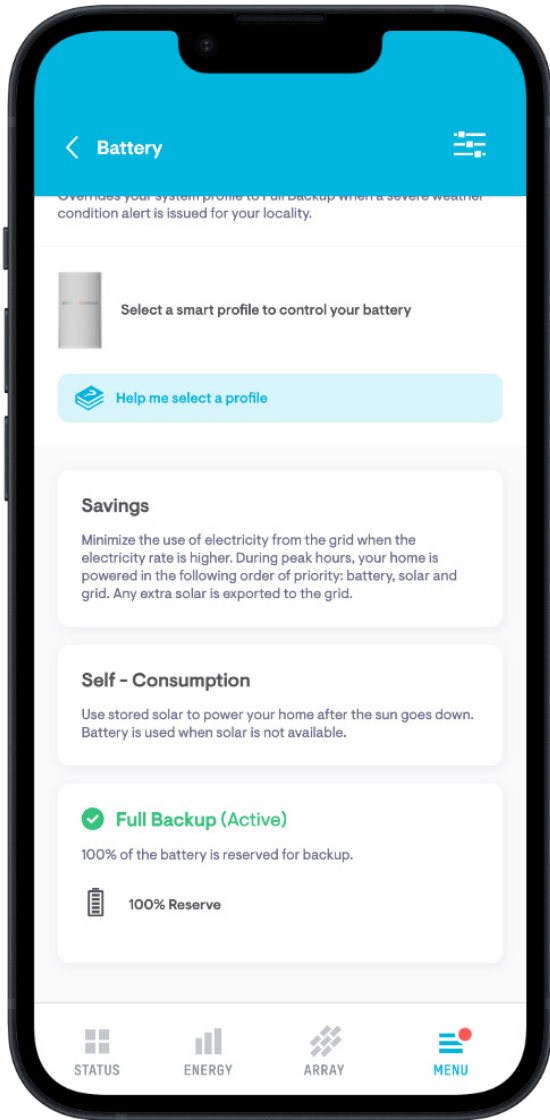
Self-Consumption profile

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 5P capacity will be held in reserve for back up 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.



Full Backup profile

When you enable 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.

Reserve capacity

NOTE: Reserve capacity is not adjustable in 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.

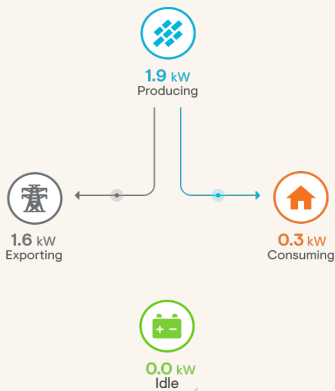


Solar production is powering the home and charging the batteries

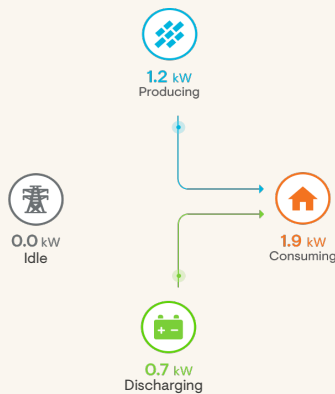
Operation in Self-Consumption profile

Normal operation in 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.



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



System behaviour during off-peak hours:
Solar production and battery discharge power the home.



System behavior during peak period when the export rates are high:
The battery has reached its minimum reserve capacity and can no longer be used to power the home, so energy is being imported from the grid.

Operation in Savings profile

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

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

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 wireless 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 2% or a lower state of charge, your battery has shut down and will restart automatically during the day to recharge from solar power. This works with IQ6, IQ7, IQ8, or M Series Microinverters. If you have IQ8 Series Microinverters, the system automatically replenishes your batteries during the outage when solar production is greater than what your home is consuming using Sunlight Jump Start.

To facilitate system restarts and recharge, turn OFF all appliances and circuits, and the system automatically recovers when solar production is available. If solar production is available and the batteries do not recover, follow the instructions on [page 26](#) to restart the batteries by cycling the DC switches on IQ Battery 5P.

Shutdown due to a large electrical load

If the Enphase App indicates that your IQ Battery 5P storage system is greater than 2% state of charge, a large electrical load (or more than one 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 practices.

<https://youtu.be/4WMhtPMSaZc>



Follow all the safety measures described throughout this manual. Use the following troubleshooting steps if the system does not operate correctly.

If the loads causing the overload condition are turned OFF immediately after the overload occurs, the system restarts within five minutes.

Check if the LED lights on the IQ Gateway (likely inside the IQ Combiner 5/5C) are flashing or lit solid. If they are flashing, the system is in the process of restarting.



WARNING: Risk of electric shock. Do not attempt to repair the Enphase IQ System Controller 3/3G, Enphase IQ Battery 5P, or any Enphase equipment. They contain no user-serviceable parts.

If you believe the equipment has failed, contact your installer to obtain an RMA (return merchandise authorization) number and start the replacement process.

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 wireless communications failure between system components such as IQ Batteries or IQ System Controller 3/3G 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 wireless 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 [page 26](#) to toggle the DC switch on an IQ Battery 5P 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 [page 24](#).

Enphase Energy System Shutdown Switch

The Enphase Energy System Shutdown Switch is engineered for safety and convenience. When switched to the OFF position, it activates the PV rapid shutdown functionality and the system bypass. This action includes the shutdown of the battery and PV. Also, it bypasses the system controller's backup function, ensuring a direct connection of the grid source to the backup loads.

Additionally, it bypasses the system backup functionality, guaranteeing that the microgrid interconnect device (MID) connects the grid source directly to the backup loads. In the unlikely event of a system problem, the switch lets you quickly turn off the system and ensure the grid source powers the loads, maintaining a seamless energy supply to your home.

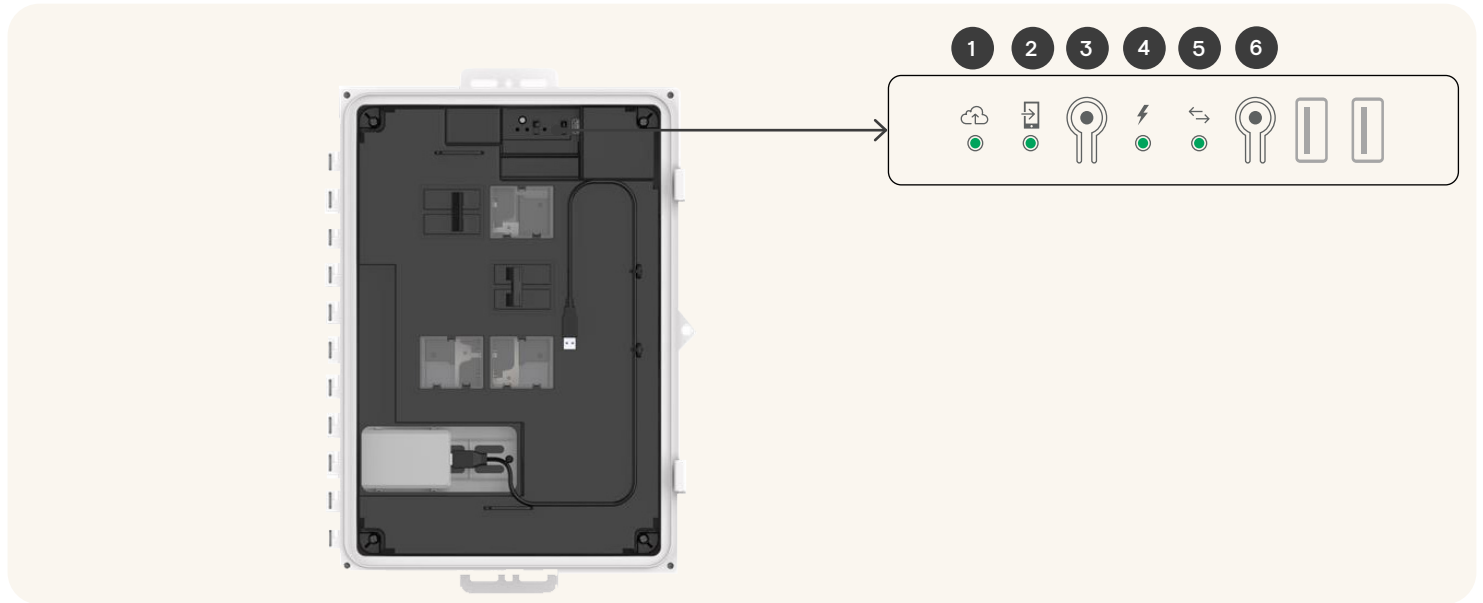
When the Enphase Energy System Shutdown Switch is switched OFF, it performs the following functions:

- PV rapid shutdown
- System bypass
- Shutdown of batteries and PV
- Bypass of the system controller backup and connection of the backup load to the grid by the microgrid interconnect device (MID)



Gateway LEDs and buttons in standalone IQ Gateway

For systems with a standalone IQ Gateway not installed in an IQ Combiner 5/5C or an Envoy S Metered, the Network communications LED is the top LED of the four LEDs.



1

Network communications LED

Green when IQ Gateway is connected to the Enphase App.

2

Access point (AP) mode LED

Green when IQ Gateway's AP Wi-Fi network is available.

3

AP mode button

Press to enable IQ Gateway's AP mode for connecting with a mobile device.

4

Power production LED

Green when microinverters are producing power.

5

Device communications LED

Green when devices are communicating with IQ Gateway.

6

Device scan button

Press to start/stop a 15-minute scan for devices over the power line.

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 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).

If the Wireless communications kit (shown below) has been unplugged or has failed, the batteries do not discharge while on the grid and will eventually shut down if operating off the grid. Verify that the Wireless communications kit is plugged in.

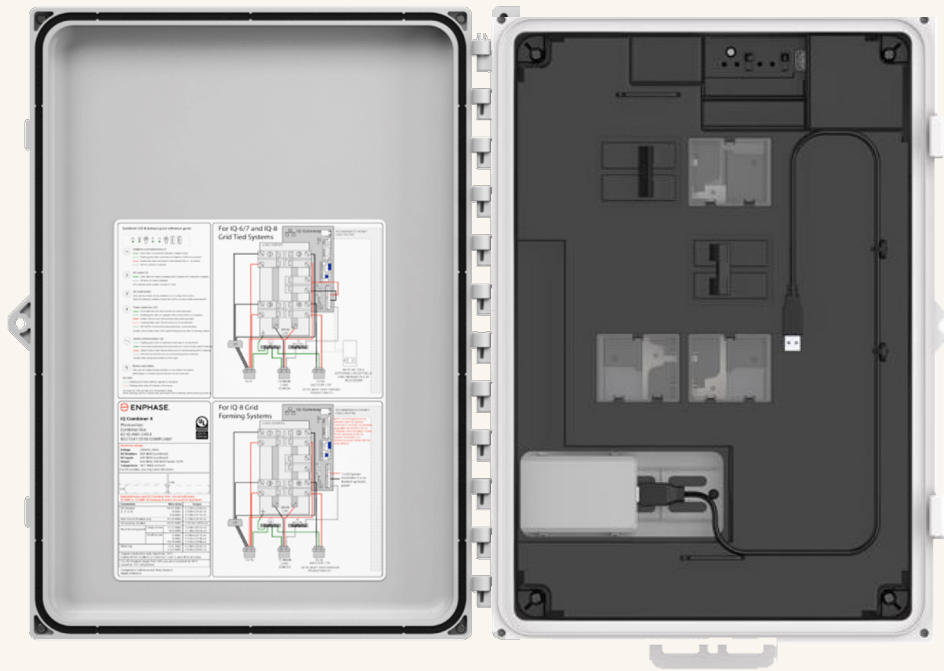
Does the Enphase App show that the IQ Gateway is not reporting, and is the left-most LED (Network communications LED) on the IQ Gateway lit red?

The Network communications LED (left-most LED) in the IQ Gateway in the IQ Combiner 5/5C 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.

Check that the IQ Gateway breaker inside the IQ Combiner 5/5C is in the ON position. If not, flip it ON. For more information on IQ Gateway LEDs and buttons, see [page 27](#).

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



Access the IQ Battery 5P DC switch

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

To reset the DC switch, turn it OFF, wait for 30 seconds, and turn it ON. You can turn ON/OFF the DC switch for IQ Battery 5P without removing the cover.



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 LEDs in your system. Be prepared to provide information about the IQ Battery 5P storage system LED indicators and the IQ Combiner 5/5C (IQ Gateway) LED indicators.

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

IQ Battery 5P LED state

DURING INSTALLATION AND COMMISSIONING

FLASHING BLUE

After booting up, when IQ Battery 5P has paired with an IQ Gateway and is awaiting a three-way handshake to confirm that it is an Enphase device

FLASHING GREEN

After passing the three-way handshake with the IQ Gateway

DURING OPERATION

RAPIDLY FLASHING YELLOW

Starting up/Establishing communications

RED FLASHES IN SEQUENCES OF 2

Error

SLOWLY FLASHING BLUE

Discharging

SLOWLY FLASHING YELLOW

Sleep mode activated

SLOWLY FLASHING GREEN

Charging

SOLID BLUE OR GREEN

Idle. Color transitions from blue to green as the state of charge increases. You can check the Enphase App for charge status.

SOLID YELLOW

Not operating due to high temperature

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 System Controller 3/3G and Combiner. Do not open the IQ Battery 5P unit unless to use the DC switch.

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 DC switch on IQ Battery 5P 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 5P 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 5P in an area that is well ventilated, where the ambient temperature is between -15°C to 55°C (5°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; 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 enphase.com/en-us/support/contact.


 The IQ Battery 5P 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.


 It is important to ensure that the Autotransformer/Neutral-Forming Transformer (NFT) circuit breaker is always in the ON position. This protects your home appliances while the system is in an off-grid mode.

 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 surge must be in accordance with local standards.


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


 EnphaseIQ System Controller 3/3G and IQ Battery 5P 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 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 2,500 meters (8,200 feet) 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.

 Enphase IQ System Controller 3/3G and IQ Battery 5P are compatible only with the IQ Gateway or Envoy S Metered properly fitted with the Enphase Communications Kit and production and consumption CTs.

An IQ Gateway or Envoy S Metered is required for the operation of the IQ Battery 5P units and IQ System Controller 3/3G. Earlier versions of the Enphase gateway are incompatible.

Revision history

REVISION	DATE	DESCRIPTION
USG-00017-3.0	March 2024	Updated the "Operation in Savings profile" section.
USG-00017-2.0	November 2023	Added the "Enphase Energy System Shutdown Switch" section.
USG-00017-1.0	August 2023	Initial release.

USG-00017-3.0

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