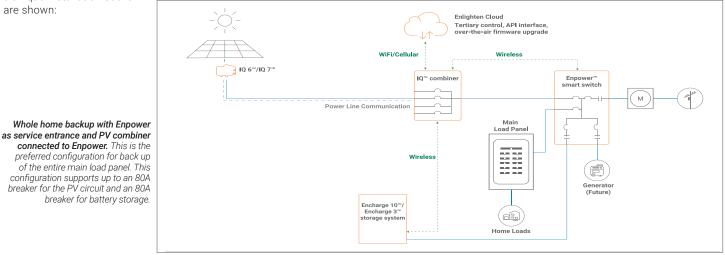
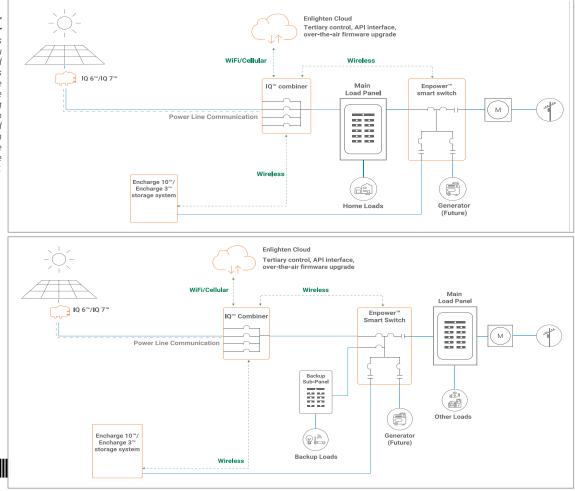
Install the Enphase Encharge Storage System

To install the Enphase Encharge 3[™] or Encharge 10[™] and the Enphase Wall-Mount Bracket, read and follow all warnings and instructions in this guide. Safety warnings are listed on the back of this guide. These instructions are not meant to be a complete explanation of how to design and install an energy storage system. All installations must comply with national and local electrical codes and standards. Only qualified electricians shall install, troubleshoot, or replace the Encharge 3 or Encharge 10.

The Enphase Storage System includes the Enphase Encharge Battery(ies) with integrated Enphase Microinverters™. The Enphase IQ Envoy™ gateway measures PV production and home energy consumption. The Enphase Storage System senses when it is optimal to charge or discharge the battery so that energy is stored when it is abundant and used when scarce. Encharge storage systems are capable of providing backup power when Enphase Enpower™ is installed at the site.

Five unique installation scenarios are shown:

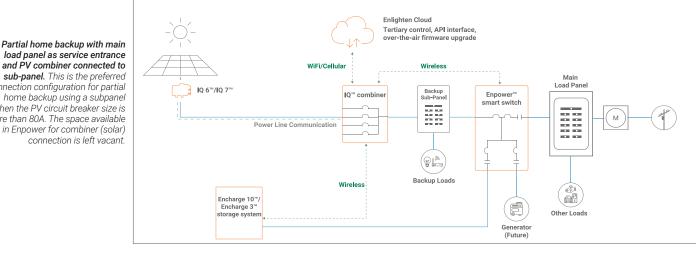


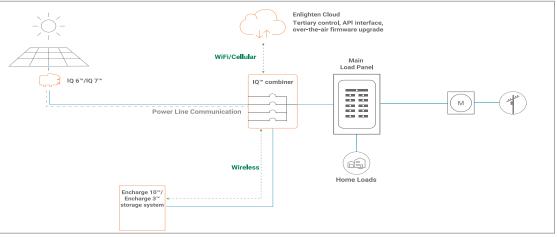


Whole home backup with Enpower as service entrance and PV combiner connected to main load panel. This is the preferred configuration when you back up the entire main load panel, and the size of the PV combiner circuit is more than 80A. In this configuration, the PV combiner circuit connection space in Enpower is left vacant. When existing PV combiner circuits are connected to the main load panel, and you want to add battery storage to the system, you can keep the PV combiner connected to the main load panel and connect only the battery storage system to Enpower.

Partial home backup with main load panel as service entrance and PV . combiner connected to Enpower. When PV circuits breaker size is less than 80A, this is the preferred configuration for partial home backup with sub-panel.

140-00151-01





Partial home backup with main load panel as service entrance and PV combiner connected to sub-panel. This is the preferred connection configuration for partial home backup using a subpanel when the PV circuit breaker size is more than 80A. The space available

Self consumption, no Enpower smart switch. The preferred configuration when adding battery storage and PV for self-consumption in a grid-tied application with no option for backup during outages. PV and Encharge will not operate when the grid is unavailable.

PREPARATION

- A) Inspect the packaging and the Encharge Battery(ies) for damage, such as cracks, dents, or leaking electrolyte. Do not install or use the Encharge Battery(ies) if it has been damaged in any way. If damaged, contact your distributor for replacement.
- B) Ensure that your kit includes the following Encharge components: The Encharge 10 includes three batteries and two interunit raceways,
 - an Encharge 10 triple-width cover, and a triple-width mounting bracket. • The Encharge 3 includes one battery, and single-width cover with mounting bracket.

NOTE: Check the "Must Energize By" label on the shipping box to verify that the Encharge Battery(ies) will be installed by the date shown. If the date has passed, contact your distributor for replacement.

MARNING: Risk of injury. Take care when lifting. The Encharge Battery unit is heavy (47 kg/104 lbs) and requires two persons to lift.

- C) Ensure you have the following required Enphase items for backup systems: An Enphase Enpower smart switch with microgrid interconnect device (MID) functionality and an Enphase IQ Combiner.
 - The Enphase Encharge system requires an Internet connection through the IQ Envoy in the IQ Combiner. Failure to maintain an Internet connection may have an impact on the warranty. See enphase.com/warranty for full terms.
 - · Wireless USB Adapter (COMMS-KIT-01) to be installed at Envoy for communications with Encharge and Enpower. Includes USB cable for connection to IQ Envoy / IQ Combiner and allows redundant wireless communication with Encharge and Enpower.

D) Make sure you also have the following required items:

- Mounting location that is structurally suited to bearing the weight of the Encharge Battery(ies). Total weight for the Encharge 3 is 53 kg (117 lbs), while the three battery units in the Encharge 10 add up to 157 kg (346 lbs). The wall must contain blocked studs that can bear the battery weight or can be of masonry or other suitable structure.
- Tools: conduit (with fittings and fitting tools), drill, 5/32 inch pilot bit

(or metric equivalent), screwdriver, socket wrench, torque wrench, level, wire stripper, and stud finder if installing on studs.

· Fasteners for wall mount bracket. Check with a structural engineer and local standards for requirements.:

Three #8 lag bolts or screws, 7.6 cm (3 inches) long (depending on attachment wall), for each single-wide wall-mount bracket.

Nine #8 lag bolts or screws, 7.6 cm (3 inches) long (depending on attachment wall), for each triple-wide wall-mount bracket.

- · Washers for use between fastener heads and wall-mount bracket. Copper conductors: No. 12 - 8 AWG (11mm/7/16 inch strip length)
- copper conductors (rated at 75° C or 90° C) for terminals.
- · Conduit fittings: 3/4 inch (left side) and 1/2 inch (right side) hubs are required for all installations, and NEMA Type 3 conduit fittings (hubs) are needed when installing out of doors (one for each used conduit opening). Also needed are conduit plugs to close unused conduit openings and conduit grounding nuts.
- Over current protection: The overcurrent protection in Encharge is not branch circuit overcurrent protection and cannot be relied upon for that purpose. The branch circuit overcurrent protection is located in Enpower or, when combining, in a separate combiner. See the Enphase Enpower Quick Install Guide for more information.
- · Personal protective equipment (PPE) for handling lithium batteries as required by local safety standards.
- Verify that main service is 120/240 VAC, and not 208/120 VAC. Encharge E) batteries cannot be installed where L1 to L2 measures 208 VAC.
- F) Install the PV system and the IQ Combiner as directed by the Enphase installation manuals
- G) To record the installation of the Encharge Battery(ies), scan or remove the serial number label for each battery and add it to the respective location on a paper installation map. You will scan this map later using Enphase Installer Toolkit™ and your mobile device. You can find an example installation map at the back of any Enphase Microinverter manual.

INSTALLATION

Plan a location for the Encharge batteries

The Encharge housing is NEMA type 3R and can be installed indoors or outdoors. The terminal blocks accepts copper conductors of No. 12 - 8 AWG.

- A) Following local standards, choose a well-ventilated location where the ambient temperature and humidity are within -15° C to 55° C (-5° F to 131° F) and 5% to 100% RH, non-condensing, preferably out of direct sunlight.
- B) Ensure that the mounting location can sustain the weight of the Encharge batteries and mounting bracket. Total weight for the Encharge 3 is 53 kg (117 lbs), while the three battery units in the Encharge 10 add up to 157 kg (346 lbs).

WARNING: The installer should install blocking between stude to ensure that no single stud carries the entire weight load of the Encharge batteries.

C) Plan the mounting location to be at least 30cm (one foot) off the ground and 30cm (one foot) from the ceiling. Keep the Encharge away from falling or moving objects, including motor vehicles.

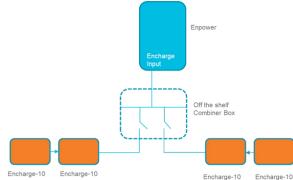
WARNING: If mounted in the path of a motor vehicle, we recommend a mounting height that is 91 cm (36-inch) minimum above the floor.

- D) Ensure that there are no pipes or electrical wires where you plan to drill
- E) Plan to maintain at least three feet of clearance in front of each Encharge. Allow enough clearance on top and sides of the Encharge so that the vents on the cover are not blocked.
- F) Consider the dimensions of the Encharge batteries, easy access, height, and length of cable when selecting the location.
- G) Select a location where you can interconnect to the Enphase Enpower MID.
- H) Follow all local standards.
- J) Review your external conduit plan to determine to which side of the field wiring compartment you will connect conduit.
- Up to two Encharge 10 (or six Encharge 3) units can be daisy K) chained on one circuit. For installations with more than this number of units, there must be a separate load center, subpanel, or circuit combiner with over current protection to combine the daisy chained circuits, and you must run only one circuit for all the Encharge units to the Enpower (or to Enphase AC Combiner for grid-tied-only installations). You must select proper conductors and AC discon nects for these circuits according to local codes, standards, and other applicable requirements. Enpower supports up to a maximum of 80 A breaker for Encharge connection circuit.

The subpanel could be a small, two circuit box with circuit breakers (the drawing only shows switches). The circuit breakers in the box would have to be suitable for back-feeding, per NEC 408.36(D)

Select the right size subpanel and breakers based on the number of Encharge units being installed. If there are only three Encharge 10s, for example, then you can use a box with current rating less than 80A

To do this, you must purchase an off-the-shelf subpanel and install as shown in the following image:



Encharge-10 Encharge-10

Install the AC disconnect

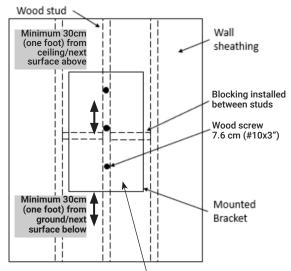
Following all local codes and standards:

- A) Install an AC disconnect that can break the maximum rated current of the branch circuit under load. The AC disconnect must be installed in line-of-sight of Encharge, per NEC 706.7(A)
- B) Each Encharge unit is suitable for use with up to No. 8 AWG wires on a maximum 40 A branch circuit. If more than 32 A of Encharge batteries (corresponding to a 40 A branch circuit) are installed, a separate subpanel must be installed between the Encharge units and Enpower to combine the Enpower circuits together. All circuit breakers in the subpanel must be suitable for back-feeding, per NEC 408.36(D).
- Verify that AC voltage at the site is within range: single-phase L1 to L2 C) voltage must measure between 211 and 264 VAC, while L-N should measure between 106 and 132 VAC.

Prepare to install the wall-mount bracket

- A) Make sure that the planned position for the wall-mount bracket meets clearance requirements as shown. The image depicts a single bracket, but clearances and requirements are the same for the triple-width bracket.
- B) Ensure that the mounting location can sustain the weight of the Encharge batteries and mounting bracket. Total weight for the Encharge 3 is 53 kg (117 lbs), while the three battery units in the Encharge 10 add up to 157 kg (346 lbs).
- C) Starting at installation position closest to the power source, mark a level line on the wall as a guide.

A WARNING! Multiple risks. Make sure not to drill or attach into electric wiring or pipes that are in the wall!



Encharge Battery

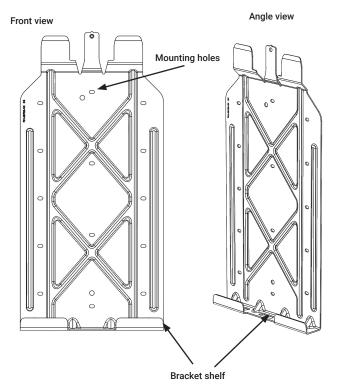
Install the Encharge 3 (single width) or Encharge 10 (triple width) wall mount bracket

Follow the instruction below for the bracket you are installing.

Encharge 3 - single-width bracket

- A) Place the wall-mount bracket on the wall so that the mounting holes in the middle of the bracket align with the center of the stud.
- B) Use a level to keep the bottom of the wall-mount bracket level.
- C) Use the screws (or masonry attachments if installing in masonry) to attach the bracket using one screw and washer for each slot. Tighten the top bracket screw to 2.0 Nm (17.7 lb-in).
- D) Verify that the wall-mount bracket is solidly attached to the wall. **WARNING!** Risk of injury and equipment damage. Do not mount an Encharge 3 on a bracket that is not properly mounted.
- E) If installing additional batteries, install adjacent wall-mount brackets, as needed. Be sure to align the mounting holes in the wall-mount bracket to the center of the wall stud. You may install another row of brackets above the one already installed. Maintain at least 15 cm (six inches) vertical clearance between rows, and ensure that the wall can support the structural load (weight) of the installation.

Encharge 3 wall mount bracket

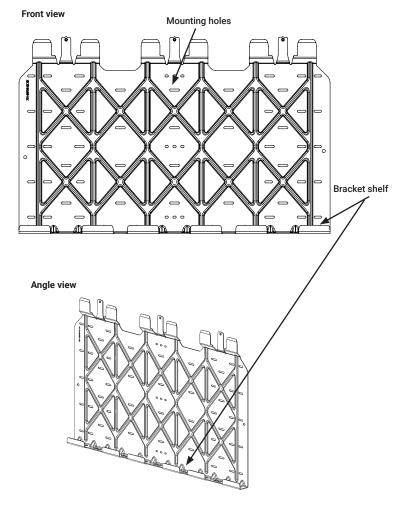


Encharge 10 - triple-width bracket

- A) Place the wall-mount bracket on the wall so that the mounting holes in the middle of the bracket align with the center of the stud, and the mounting holes on the left and right align with the adjacent studs.
- B) Use a level to keep the bottom of the wall-mount bracket level.
- C) Use the screws (or masonry attachments if installing in masonry) to attach the bracket using one screw and washer for each slot. Use screws in each section of the mounting bracket to support the three Encharge battery units. There is an array of slots so that you can choose those that allow you to mount the bracket on studs. Tighten the top bracket screw to 2.0 Nm (17.7 lb-in).
- D) Verify that the wall-mount bracket is solidly attached to the wall.

WARNING! Risk of injury and equipment damage. Do not mount Encharge 10 batteries on a bracket that is not properly mounted.

Encharge 10 wall mount bracket



Mount the Encharge Battery(ies) on the wall

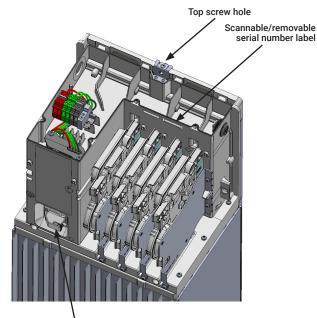
A **WARNING**: Risk of injury. Take care when lifting. Each Encharge Battery is heavy (47 kg/ 104 lbs) and requires two persons to lift.

A **WARNING!** Risk of injury and equipment damage. Avoid dropping the Encharge Battery(ies). Doing so may create a hazard, cause serious injury, and/or damage the equipment.

WARNING! Risk of injury and equipment damage. Protect the Encharge Battery(ies) from impact damage and improper use.

- A) Take the Encharge battery unit from the packaging and place it right side up on a flat surface.
- B) Begin by installing the Encharge battery unit located closest to the main supply. Supporting the Encharge battery unit from underneath the unit, lift the Encharge battery unit, hold it at an angle so the top of the Encharge battery unit sets into the top of the wall-mount bracket.
- C) Once the top of the battery is engaged with the top tabs of the wallmount bracket, keep the battery vertical, make sure the battery is flush against the bracket, and lower the battery down until fully seated on the wall-mount bracket shelf.
- D) Attach the battery to the mounting bracket aligning the screw hole at the top of the battery with the screw hole at the top of the bracket.

WARNING! Risk of injury and equipment damage. Do not release the Encharge battery unit until you ensure that the Encharge battery unit is fully seated in the wall-mount bracket shelf.





Install conduit and field wiring

DANGER! Risk of electric shock. The DC switch must be in the Locked position before performing this step.

- A) Remove the sealing plug for entry into the field wiring compartment. If installing only one battery or when installing the last battery in the array, seal up the hole with the supplied sealing plug.
- B) Size the conductors (Lines and Ground) to account for voltage rise and to conform to the tables below. Design for a voltage rise total of less than 2%. Encharge can use any circuit breaker size between 20 A and 40 A. Breaker rating and wire size are installation dependent.

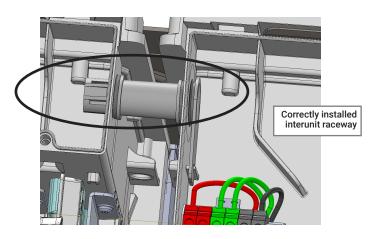
Number of Encharge 3 Batteries	Current (A)	Minimum Wire Size (AWG)	Breaker Handle Rating (A)
1	5.3	14	10
2	10.7	14	15
3	16.0	12	20
4	21.3	10	30
5	27.7	8	35
6	32.0	8	40

		Minimum Wire Size (AWG)	Breaker Handle Rating (A)
1	16.0	12	20
2	32.0	8	40

DANGER! Risk of electric shock. Check that the dedicated circuit breaker protecting the branch where the Encharge Battery(ies) will be connected is turned off before wiring.

A **WARNING!** Risk of equipment damage. The DC switch must be OFF before installing, otherwise Encharge will try to form a grid.

- C) Use a Phillips screw driver to loosen the screws securing the field wiring compartment cover and remove the cover. Keep the cover handy as you will need it later.
- D) **If installing an Encharge 10**, install the interunit raceways. The leftside and right-side conduit openings are different diameters, so you must install the raceway in the proper direction.
 - Face the fronts of the batteries, and insert the raceway through the right-hand unit's left-side conduit opening from within the field wiring compartment, with the arm of the raceway pointing up.
 - Push the raceway through the right-hand unit's left-side conduit opening and into the left-side unit's right-side conduit, opening until the two snap features on the raceway engage the left-side unit's enclosure.
 - Once fully inserted, rotate the "arm" toward you until it stops.
 - The left-side conduit opening of each battery unit has a flat surface, without additional features. The larger seal (green) on the raceway mates with this opening. The right-side conduit opening has a groove around the hole to fit the 0-ring (red) of the raceway. Make sure that the 0-ring is captured in the groove between the Encharge enclosure and the raceway flange adjacent to the 0-ring.



Install conduit and field wiring, continued

E) Using the conductors and suitable conduits, connect the AC disconnect and the first adjacent Encharge Battery. Use the conduit openings provided to connect the conduit and pass the wires through them. Note that if an Enphase Enpower is in line-of-sight, the breaker can service as a disconnect.

A **WARNING!** Risk of equipment damage. Do not modify or rewire the pre-installed wiring or bonding connections in the field wiring compartment.

A **WARNING!** Risk of equipment damage. Always connect to two Lines (active) and one ground.

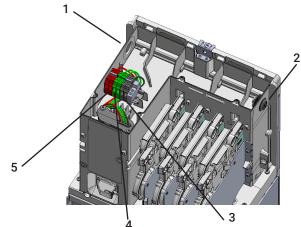
- F) Connect each wire in the field wiring compartment to its corresponding conductor (Lines and Ground). Each terminal accepts two 12-8 AWG conductors (11mm/7/16 inch strip length). Tighten to 14 in lb.
- G) If installing an Encharge 10, route the wires from the first Encharge Battery to the adjacent Encharge Battery through the interunit raceway. There are two positions for each line and for ground in the terminal block to allow for daisy-chaining.

WARNING! Risk of equipment damage. Do not daisy chain more than six total Encharge 3 or two Encharge 10 on a single branch circuit.

- H) After all wires in the field wiring compartment are connected and secured, check that there are no exposed conductors.
- If connecting additional Encharge Batteries, use another conduit and another set of wires to connect between field wiring compartments.
- J) Gently arrange all the wires and connectors inside the field wiring compartment.
- K) Plug any unused conduit openings before proceeding.
- L) Replace the field wiring compartment cover. Use a cross-head screw driver to tighten the cover screws to 2.3Nn (20.3 lb-in).

A **WARNING!** Risk of equipment damage. Ensure that no wires are pinched before replacing the cover.

DANGER! Risk of electric shock. The system is not ready to be energized! Do not close the circuit breaker or turn on the DC switch.



KEY:

Interunit

raceway

- 1. AC (conduit opening). Used for interunit raceway when an adjacent battery is installed.
- 2. AC (conduit opening)
- 3. Terminal for L1 in from conduit opening
- 4. Terminal for ground in from conduit opening
- 5. Terminal for L2 in from conduit opening

Cover and energize the system

A WARNING: Before energizing, make sure that ALL Encharge Batteries in the system are properly installed and conductors terminated.

NOTE: Check the Cover Kit box for updates on cover installation instructions.

A) Check that the field wiring compartment cover(s) for all Encharge Batteries in the system are closed and secured.

WARNING: Complete the Enphase Enpower and Enphase Combiner installations before turning the DC switch(es) ON.

B) Turn on the DC switches for the Encharge Batteries.

A DANGER: Risk of electric shock. AC voltage is present at the output when the DC switch is on.

 \bigtriangleup **WARNING:** Branch circuit protection must be off before switching DC power on or off.

A **WARNING!** Risk of electric shock and equipment damage. If the DC switch is ON, Encharge will try to form a grid.

C) Place enclosure cover(s) over the battery(ies) as follows.

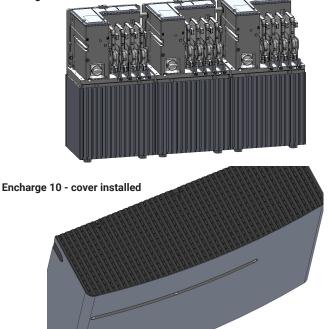
Encharge 3 (single-width battery cover)

- Pick up the Encharge 3 Battery cover, stand in front of the battery so that the cover and battery are on a level, and slide the cover over the battery so that the interior guides of the cover slide easily over the guides on the battery unit.
- Check that the screw hole on top of the battery cover aligns with that on the battery.
- Use the included screw to attach the cover to the battery. Tighten the screw as needed.

Encharge 10 (triple-width battery cover)

- The Encharge 10 Battery cover in wide and may require two persons to guide smoothly over the battery units.
- Pick up the Encharge 10 Battery cover, stand in front of the battery so that the cover and battery are on a level, and slide the cover over the battery so that the interior guides of the cover slide easily over the guides on the battery units.
- Check that the screw holes on top of the battery cover align with those on the batteries.
- Use the included screws to attach the cover to the batteries. Tighten the screws as needed.
- D) Turn on the AC circuit feeding the Encharge Battery(ies).
- E) The Encharge Battery LED(s) should flash yellow for the duration of the startup process. If the LED is not flashing yellow, see the following section on Troubleshooting.

Encharge 10 without cover



CONFIGURE and ACTIVATE

Use the Enphase Installer Toolkit to commission the Encharge Battery(ies). Once connected to the Envoy, refer to the Installer Toolkit help topics for more information.

After the IQ Envoy has detected the Encharge Battery(ies), the Encharge LEDs operate as described in the following section.

OPERATION

a LED overview

The LED flashes yellow while each Encharge Battery boots up. If the LED rapidly flashes green for more than two minutes, the battery is in trickle charge mode and will remain so until it reaches a minimum state of charge (up to 30 minutes). After the Encharge Battery is booted up, the LED becomes blue or green depending on the charge level. If the LED flashes yellow after one hour or changes to a flashing red state, contact Enphase Customer Support at enphase.com/en-us/support/contact.

State	Description	
Rapidly flashing yellow	Starting up / Establishing communications	
Red flashes in sequences of 2	Error. See "Troubleshooting".	
Solid yellow	Not operating due to high temperature. See "Troubleshooting".	
Solid blue or green	Idle. Color transitions from blue to green as state of charge increases. You can check Enlighten for charge status.	
Slowly flashing blue	Discharging	
Slowly flashing green	Charging	
Slowly flashing yellow	Sleep mode activated	
Off	Not operating. See "Troubleshooting".	

b Troubleshooting

If the Encharge Battery(ies) are not operating correctly, perform the following steps. If the issue persists, contact Enphase Customer Support at enphase.com/en-us/support/contact_

- A) If the Encharge Battery(ies) do not operate, check the temperature in the room and increase cooling and/or ventilation as required. Check that the front, top, and sides of the Encharge batteries have at least 30 cm (one foot) of unobstructed clearance.
- B) If the Encharge LED is off, turn off the breaker for the branch circuit, wait for at least one minute, and turn it back on.

NOTE: During a brownout or blackout, the Encharge powers down automatically. This is normal. When power is restored, it automatically starts up again.

C) If you do not see Encharge information in Enlighten, check that the IQ Envoy and the Internet connection are working.

SAFETY

IMPORTANT SAFETY INSTRUCTIONS. SAVE THESE INSTRUCTIONS. This guide contains important instructions that you must follow during installation and maintenance of the Enphase Encharge Battery(ies). Failing to follow any of these instructions may void the warranty (enphase.com/warranty).

In Case of Fire or Other Emergency

In all cases:

- If safe to do so, switch off the AC breaker for the Encharge Battery circuit, and if an isolator switch is present, switch off the AC isolator for the Encharge Battery 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 the water if any part of the Encharge Battery(ies) 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 battery, call your installer to arrange a 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 Encharge Battery(ies) or in the venting area of the Encharge Battery(ies).

Ventilate the room.

Contact Enphase Customer Support at enphase.com/en-us/support/contact.

Safety and Advisory Symbols

	DANGER : This indicates a hazardous situation, which if not avoided, will result in death or serious injury.
\land	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.
\checkmark	NOTE : This indicates information particularly important for optimal system operation. Follow instructions carefully.

Safety Instructions

•	DANGER: Risk of electric shock. Risk of fire. Only qualified electricians should
\square	install, troubleshoot, or replace the Encharge Battery(ies).
	DANGER: Risk of fire or explosion. Only qualified personnel, using personal protective equipment (PPE) should transport or handle the Encharge Battery(ies).
	DANGER : Risk of explosion. Do not dispose of Encharge Battery(ies) in a fire or by burning. The Encharge Battery(ies) can explode.
	DANGER: Risk of fire. During use, when stored, or during transport, keep the Encharge Battery(ies) in an area that is well ventilated and protected from the elements, where ambient temperature is between -20° C and 45° C (-4° F and 113° F), and where relative humidity is between 5 and 95 percent. Do not install the Encharge Battery(ies) at elevations over 2500 m (8,200 feet) above sea level.
	DANGER: Risk of fire. If the Encharge Battery(ies) generate smoke, remove AC power from the Enphase System and turn the DC connect switch to the off position so that charging/discharging stops.
	DANGER: Risk of electric shock. Risk of fire. Do not attempt to repair the Encharge Battery(ies). DO NOT OPEN THE ENCLOSURE NO SERVICEABLE PARTS. Tampering with or opening the Encharge Battery(ies) will void the warranty. If the Encharge Battery(ies) fail, contact Enphase Customer Sup- port for assistance at enphase.com/en-us/support/contact.
	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. Do not install the Encharge Battery(ies) without first removing AC power from the photovoltaic system. Disconnect the power coming from the photovoltaics before servicing or installing.
	DANGER : Risk of electric shock. Always de-energize the AC branch circuit during an emergency and/or before servicing the Encharge Battery(ies). Never disconnect the DC switch under load.
	 DANGER: Risk of electric shock. Risk of high short-circuit current. Observe the following precautions when working on batteries: Remove watches, rings, or other metal objects. Use tools with insulated handles. Wear insulating gloves and boots. Do not lay tools or metal parts on top of batteries.
	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 Encharge Battery(ies).
	DANGER: Risk of electric shock. In areas where flooding is possible, install the Encharge Battery(ies) at a height that prevents water ingress.

Enphase Customer Support: enphase.com/en-us/support/contact

Safety Instructions, continued

	/ Instructions, continued
A	DANGER: Risk of electric shock. AC voltage is present at the output when the DC switch is on.
$\underline{\mathbb{A}}$	DANGER: Risk of electric shock. Branch circuit protection must be off before switching DC power on or off.
	DANGER: Risk of electric shock. The DC switch must locked in the OFF
$\overline{\Lambda}$	position for shipping and service. WARNING: Risks of electric shock, energy hazard, and chemical hazard. Do
<u></u>	not disassemble. WARNING: Risk of equipment damage. During use, storage, transport, or
	installation, always keep the Encharge Battery(ies) in an upright position. WARNING: You must install the Encharge Battery(ies) only on a suitable wall
	using an Enphase wall-mount bracket.
	WARNING: Before installing or using the Encharge Battery(ies), read all instructions and cautionary markings in this guide and on the equipment. WARNING: Do not install or use the Encharge Battery(ies) if it has been
\triangle	damaged in any way.
\wedge	WARNING: Do not exceed the maximum number (3) of Encharge Batteries in a 20 A AC branch circuit.
\triangle	WARNING: Do not sit on, step on, place objects on, or insert objects into the Encharge Battery(ies).
\wedge	WARNING: Do not place beverages or liquid containers on top of the Encharge Battery(ies). Do not expose the Encharge Battery(ies) to liquids or flooding.
	 WARNING: When placing the Encharge Battery(ies) in storage, ensure that AC power is not present and that the DC switch is in the Locked position. While in storage, damage to the battery can occur from over-discharge. If the battery state of charge falls to 0%, the Encharge Battery(ies) can be damaged or destroyed. Because of this, the Encharge Battery(ies) must only be stored for a limited amount of time. The Encharge Battery(ies) must be installed and energized by the "Must Energize By" date on the shipping box label. The Encharge Battery(ies) must have a charge Battery(ies) must be placed in Sleep Mode. If the Encharge Battery(ies) is already been installed, it must be placed
\checkmark	into Sleep Mode prior to uninstalling. A battery in Sleep Mode can be stored a maximum of two months after being placed into Sleep Mode. NOTE: Perform installation and wiring, including protection against lightning and resulting voltage surge, in accordance with all applicable local electrical
	codes and standards. NOTE: Because Encharge Battery(ies) are grid forming, you must install
<u> </u>	Signage in accordance with NEC articles 705, 706, and 710. NOTE: Using unapproved attachments or accessories could result in dam-
<u> </u>	age or injury. NOTE: Install properly rated over current protection as part of the system
<u> </u>	NOTE : To ensure optimal reliability and to meet warranty requirements,
\checkmark	the Encharge Battery(ies) must be installed and/or stored according to the instructions in this guide.
\checkmark	NOTE: The Encharge Battery(ies) are compatible only with the IQ Envoy communications gateway properly fitted with USB hub, USB radios, and production and consumption CTs. The IQ Envoy is required for operation of the Encharge Battery(ies). Earlier versions of the Enphase Envoy communi- cations gateway are incompatible.
\checkmark	NOTE: The Enphase Encharge Battery(ies) are intended to operate with an Internet connection. Failure to maintain an Internet connection may have an impact on the warranty. See Limited Warranty for full terms and services (enphase.com/warranty).
\checkmark	NOTE : When replacing Enphase Encharge Battery(ies), you must replace with an Encharge Battery(ies) of the same type, with the same AC current rating.
\checkmark	NOTE: When stored, the Encharge Battery(ies) are not connected to the grid and no automatic charge of the battery is possible.
\checkmark	NOTE: Properly mount the Encharge Battery(ies). Ensure that the mounting lo- cation is structurally suited to bearing the weight of the Encharge Battery(ies).
~	NOTE: During use, storage, and transport, keep the Encharge Battery(ies): 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 Free of vibrations Away from falling or moving objects, including motor vehicles. If mounted in the path of a motor vehicle, we recommend a 91 cm (36-inch) minimum mounting height At an elevation of lower than 2,500m (8,200 feet) above sea-level In a location compliant with local building codes and standards
\checkmark	NOTE : Conditions for the Encharge installation site apply also to storage conditions.

✓ Environmental Protection

