ENPHASE

ENGLISH

IQ Battery 10C

Quick install guide



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MODEL
IQBATTERY-10C-1P-NA

VERSION 4.0
JUNE 2025

140-00379-04

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1. Safety information

IMPORTANT SAFETY INSTRUCTIONS. SAVE THESE INSTRUCTIONS.

This guide contains important instructions that you must follow during the installation and maintenance of the Enphase IQ Battery(ies). Failing to follow any of these instructions may void the warranty (enphase.com/warranty). Refer to the MSDS document and safety data sheet at enphase.com/en-us. Read these instructions carefully and retain them for future use. If the ownership of IQ Battery 10C is transferred, then these instructions must be included.

In case of fire or other emergency

In all cases:

- If safe to do so, switch off the AC breaker for the IQ Battery 10C circuit, and if a disconnect switch is present, switch off the AC disconnect for the IQ Battery 10C circuit.
- Contact the fire department or other required emergency response team. Evacuate the area.
- Contact Enphase Support by calling (877) 797-4743 and selecting option 2, or by visiting https://enphase.com/contact/support.

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 IQ 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 an inspection. If you are sure that water has never contacted the battery, let the area dry completely before use.

In case of unusual noise, smell, or smoke:

- Ensure nothing is in contact with the IQ Battery(ies) or in the venting area of the IQ Battery(ies).
- Ventilate the room.

In case of electrolyte exposure:

The Enphase IQ Battery 10C has a lithium iron phosphate (LFP) battery that contains organic electrolytes and is sealed in a protective case. The leaked electrolyte is toxic and flammable. The leaked electrolyte is colorless and has a sweet odor. Electrolyte fluid tends to evaporate quickly, leaving behind a white grainy substance. If an odor is obvious, proceed to the following steps:

DANGER: DO NOT TOUCH OR INGEST ANY LIQUID SUSPECTED TO BE BATTERY ELECTROLYTE.

- Evacuate personnel to a safe area and keep unauthorized personnel away.
- Isolate the spill area to a minimum distance of 75 feet (25 m).
- Eliminate all ignition sources (no smoking, sparks, flames, or hot equipment) in the immediate area around the spill.
- Do not touch or walk through spilled material.
- Avoid breathing vapors. Ensure adequate ventilation. Use personal protective equipment.
- Emergency telephone number (ChemTel): Inside United States Territories and Canada: (800) 255-3924 Outside United States Territories and Canada: +01 (813) 248-0585

1.1 Safety and advisory symbols

DANGER: This indicates a hazardous situation, which, if not avoided, will result in death or serious injury.

WARNING: This indicates a situation where failure to follow instructions may be a safety hazard or cause equipment malfunction. Use extreme caution and follow instructions carefully.

NOTE: This indicates information particularly important for optimal system operation. Follow instructions carefully.

1.2 Safety instructions

DANGER: Risk of electric shock. Risk of fire. Only qualified electricians should install, troubleshoot, or replace the IQ Battery(ies).

DANGER: Risk of fire or explosion. Only qualified personnel using personal protective equipment (PPE) should transport or handle the IQ Battery(ies).

DANGER: Risk of explosion. Do not dispose of IQ Battery(ies) in a fire or by burning. The IQ Battery(ies) can explode.

DANGER: Risk of fire or explosion. This product is designed for stationary installation only and should be used accordingly. It is not designed for mobile applications such as installation on vehicles and trailers and should not be used in such applications.

DANGER: Risk of fire. During use, when stored, or during transport, keep the IQ Battery(ies) in an area that is well-ventilated and protected from the elements, where the ambient temperature and humidity are within -4°F to 131°F (-20°C to 55°C) and 5% to 95% RH, non-condensing, preferably out of direct sunlight. Do not install the IQ Battery(ies) at elevations over 9,842 feet (3,000 m) above sea level.

DANGER: Risk of fire. If the IQ Battery(ies) generate smoke, remove AC power from the Enphase system and turn the control switch to the off position so that charging/discharging stops.

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 IQ 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 IQ Battery(ies).

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 IQ Battery(ies).

DANGER: Risk of electric shock. In areas where flooding is possible, install the IQ Battery(ies) at a height that prevents water ingress.

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

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 be in the OFF position for shipping and service.

WARNING: Multiple risks. Follow all local standards and regulations set forth by the Utility companies and Authority Having Jurisdiction (AHJ).

WARNING: Risks of electric shock, energy hazard, and chemical hazard. Do not disassemble.

WARNING: Risk of equipment damage. During use, storage, transport, or installation, always keep the IQ Battery(ies) in an upright position.

WARNING: You must install the IQ Battery(ies) only on a suitable wall using an Enphase mounting bracket.

WARNING: Before installing or using the IQ Battery(ies), read all instructions and cautionary markings in this guide and on the equipment.

WARNING: Do not install or use the IQ Battery(ies) if it has been damaged in any way.

WARNING: Do not exceed the maximum number (1) of IQ Battery 10C without PCS or the maximum number (2) of IQ Battery 10C with PCS in a 40 A AC branch circuit

WARNING: Do not exceed the maximum number (2) of IQ Battery 10C without PCS or the maximum number (4) of IQ Battery 10C with PCS on 80 A AC branch circuit.

WARNING: Do not sit on, step on, place objects on, or insert objects into the IQ Battery(ies).

WARNING: Do not place beverages or liquid containers on top of the IQ Battery(ies). Do not expose the IQ Battery(ies) to liquids or flooding.

WARNING: Risk of injury and equipment damage. The total lifting weight is 125.6 lb (57 kg). Handles (SKU: B05C-LH-0180-O) must be used while lifting the battery. Two-person manual lifting is allowed only if permitted by local laws. Otherwise, use mechanical lifting.

WARNING: Risk of injury and equipment damage.

- Do not lift the IQ Battery 10C battery units by holding onto the microinverters. This may damage the unit permanently.
- Do not lift the packaging with the battery inside after the plastic straps are cut.
- Do not mount an IQ Battery 10C on a bracket that is not properly mounted.

WARNING: Multiple risks. While drilling, make sure not to drill into electric wiring or water pipes in the wall.

WARNING: Risk of equipment damage. Use an electric drive; do not use impact drives/impact drills while tightening fasteners provided along with the product. Ensure that fasteners are torqued to the recommended limits.

WARNING: Risk of injury. Wear personal protective equipment for handling lithium batteries as required by local safety standards during the installation and handling of IQ Battery.

WARNING: Limitation of use. Your IQ Battery 10C unit is not intended for use as a primary or backup power source for life-support systems, other medical equipment, or any other use where product failure could lead to injury, loss of life, or catastrophic property damage. Enphase disclaims any and all liability arising out of any such use of your IQ Battery 10C unit. Further, Enphase reserves the right to refuse to provide support in connection with any such use and disclaims any and all liability arising out of Enphase's provision of, or refusal to provide support for your IQ Battery 10C device in such circumstances.

WARNING: When placing the IQ Battery(ies) in storage, ensure that AC power is not present and that the DC switch is in the OFF state (LED not on). While in storage, damage to the battery can occur from over-discharge. If the battery state of charge falls to 0%, the IQ Battery(ies) can be damaged or destroyed. Because of this, the IQ Battery(ies) must only be stored for a limited amount of time.

- The IQ Battery(ies) must be installed and energized by the **Must Energize By** date on the shipping box label.
- The IQ Battery(ies) must have a SoC (State of Charge) of no more than 30% when placed in storage. To do this, the IQ Battery(ies) must be switched OFF when it reaches 30% SoC.
- If the IQ Battery(ies) have already been installed, it must be discharged to 30% SoC and be switched OFF prior to uninstalling. A battery in an OFF state can be stored for a maximum of two months from the time it was switched off.

NOTE: Inspect the packaging and the IQ Battery(ies) for any signs of damage, such as cracks, dents, or electrolyte leaks. Do not install or use the IQ Battery(ies) if it has been dropped or damaged in any way. If it is damaged, contact your distributor for replacement.

NOTE: These mounting instructions are for the included mounting bracket only. If you wish to install IQ Battery 10C in a floor-mount configuration, order the pedestal accessory (B05C-PI-0550-O) and refer to the floor-mount instructions shipped with the product.

NOTE: Perform installation and wiring, including protection against lightning and resulting voltage surges,

in accordance with all applicable local electrical codes and standards.

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

NOTE: Install properly rated overcurrent protection as part of the system installation.

NOTE: To ensure optimal reliability and to meet warranty requirements, the IQ Battery(ies) must be installed and/or stored according to the instructions in this guide.

NOTE: The Enphase IQ Battery 10C system requires an internet connection through the IQ Gateway Metered located inside IQ Combiner 6C. Failure to maintain an internet connection may have an impact on the warranty. See http://www.enphase.com/warranty for full terms.

NOTE: When replacing the Enphase IQ Battery(ies), you must replace it with an IQ Battery(ies) of the same type with the same AC current rating.

NOTE: When disconnected and stored, no automatic charge of the battery is possible.

NOTE: Properly mount the IQ Battery(ies). Ensure that the mounting location is structurally suited to bearing the weight of the IQ Battery(ies).

NOTE: During use, storage, and transport, keep the IQ Battery(ies):

- Properly ventilated.
- Away from the water, other liquids, heat, sparks, and direct sunlight.
- Away from excessive dust, corrosive and explosive gases like ammonia, 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 36 in (914 mm) minimum mounting height.
- At an elevation of less than 9,842 feet (3,000 m) above sea level.
- In a location compliant with fire safety regulations.
- In a location compliant with local building codes and standards.

NOTE: Conditions for the IQ Battery 10C installation site also apply to storage conditions.

NOTE: Enphase Energy System requires a utility grid connection for commissioning and operation.

NOTE: Recycle packaging according to local guidelines.

NOTE: All Enphase IQ Batteries are constructed with sealed lithium iron cells and utilize lithium iron phosphate (LiFePO4) chemistry. This chemistry does not produce flammable gases during normal charge and discharge operations. Therefore, no additional ventilation is required for indoor installations, in compliance with North American code requirements: NFPA 70, NFPA 855, International Residential Code, and International Fire Code.



Environmental protection

ELECTRONIC DEVICE: DO NOT THROW AWAY. Waste electrical products should not be disposed of with household waste.

Proper disposal of batteries is required. Refer to your local codes for disposal requirements.

2. Introduction

To install the Enphase IQ Battery 10C, read and follow all warnings and instructions in this quick installation guide (QIG). Safety warnings are listed at the start 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 codes and standards. Only Enphase-certified installers shall install, troubleshoot, or replace the IQ Battery 10C.

The IQ Battery 10C system includes the battery cell pack with integrated IQ Microinverters (SKU: IQ8BL, IQ8BN) and the battery management system (BMS). The system requires IQ Combiner 6C and IQ Meter Collar for the backup operation. The IQ Gateway inside the combiner measures PV production, IQ Battery 10C charge/discharge power, and home energy consumption, and it senses when it is optimal to charge or discharge the battery so that energy is stored when it is abundant and used when it is scarce.

Key specifications	
Rated (continuous) output power	7.08 kVA[1]
Rated output current (@240 V_{L-L} AC~)	29.5 A[1]
Rated neutral current (@120 V_{L-N} AC~)	24 A[2]
Interconnection	Single-phase
Nominal voltage	240/120 VAC~
Nominal frequency	60 Hz
Usable capacity[3]	10.0 kWh
Ambient operating temperature range (charging)[4]	–4°F to 122°F (–20°C to 50°C) Non-condensing
Ambient operating temperature range (discharging)[5]	–4°F to 131°F (–20°C to 55°C) Non-condensing
Chemistry	Lithium iron phosphate (LFP)
Mounting	Wall-mount or pedestal-mount (sold separately)
Dimensions (H × W × D)	24.5 in × 28 in × 14.4 in (621 mm × 708 mm × 365 mm)
Maximum lifting weight	125 lb (57 kg)
Total installed weight	317 lb (144 kg)

1 7.08 kVA, 29.5 A for the balanced 240 V_{L-L} loads.

2 A maximum of 24 A, 120 V_{L-N} unbalanced loads can be supported along with 5.5 A, 240 V_{L-L} loads.

3 The battery's usable capacity supports loads and turns PV on (when off-grid), in normal daily operation. The usable capacity includes a safety-critical limit of 2% that safeguards the customer's assets in case of a long-duration grid outage. An additional 3% capacity is maintained for powering battery electronics at night. Refer to http://link.enphase.com/iqbattery_usable_capacity_en_na for more information.

4 A reduction in charging power occurs at temperatures below 15°C and above 45°C.

5 A reduction in discharging power occurs at temperatures below 0°C and above 50°C.

3. IQ Battery 10C installation scenarios

This section provides details on IQ Battery 10C installation scenarios.

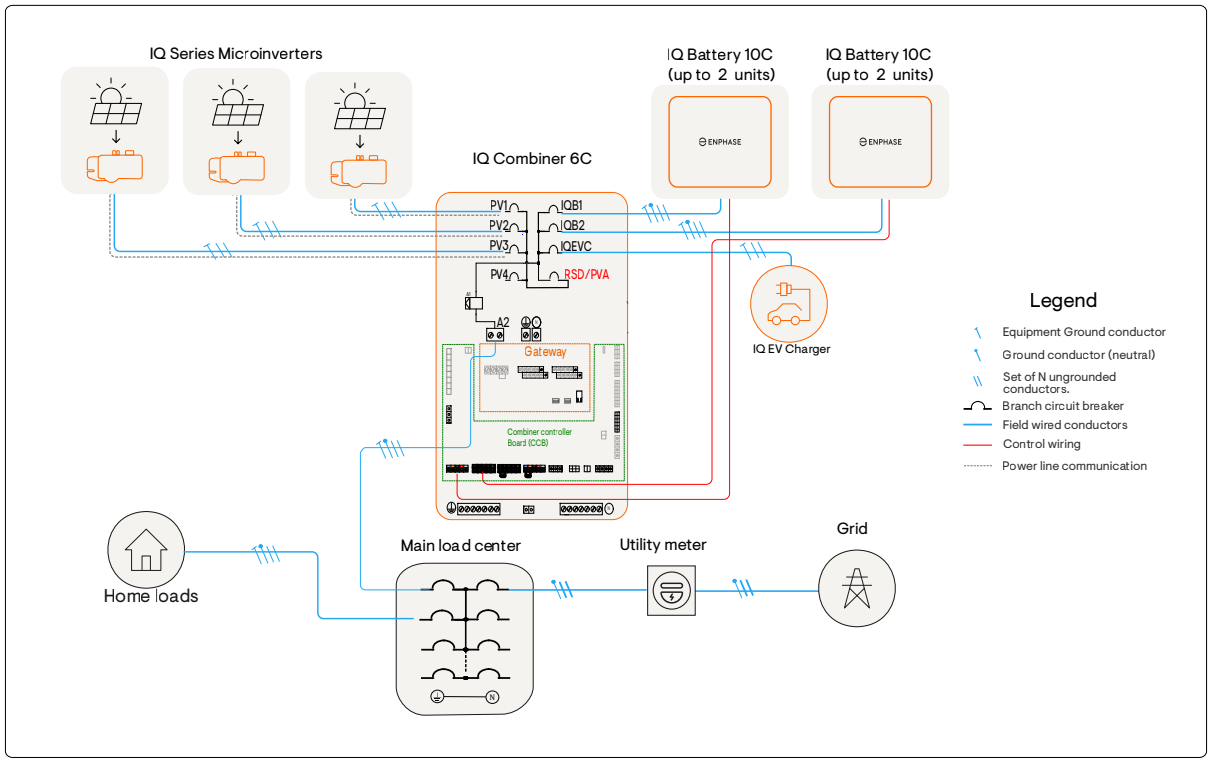


Figure 1: Grid-tied system - PV + Battery only with main load center

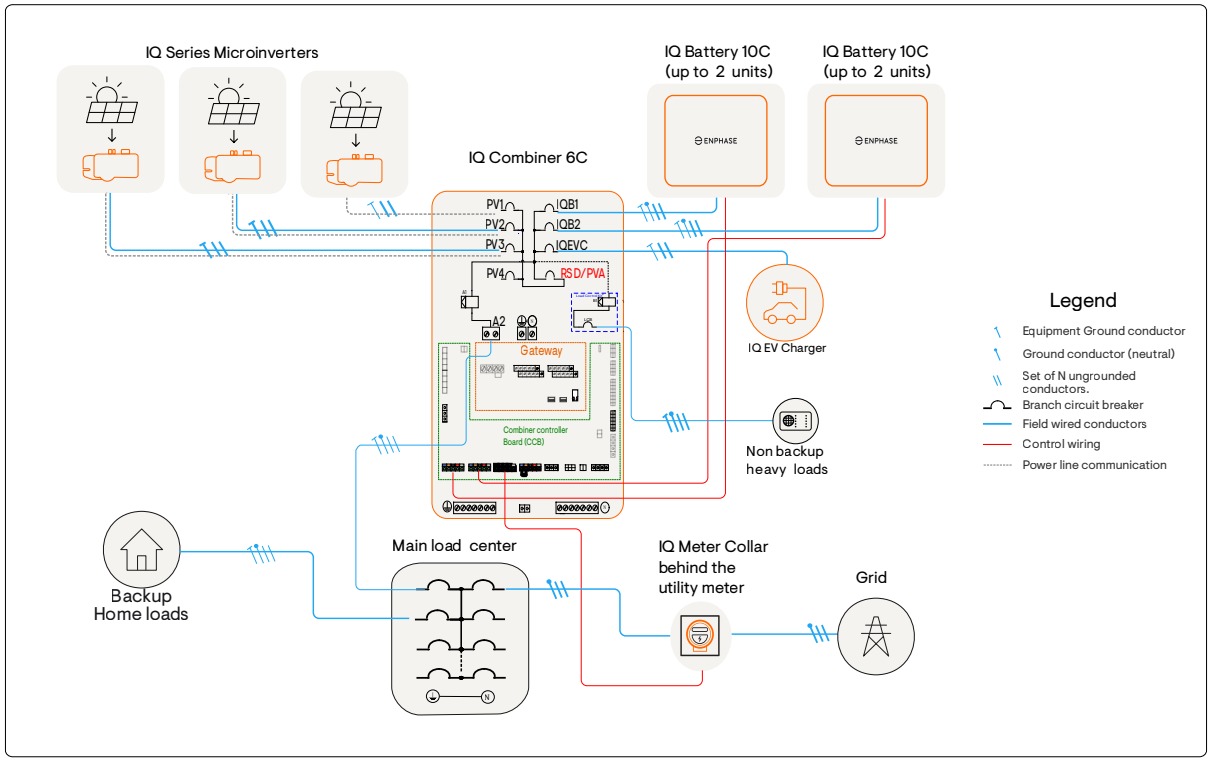


Figure 2: Grid-forming system - IQ Meter Collar behind utility meter in a meter socket

NOTE: Refer to the IQ Combiner 6C (SKU: X-IQ-AM1-240-6C) QIG for details on combiner connections.

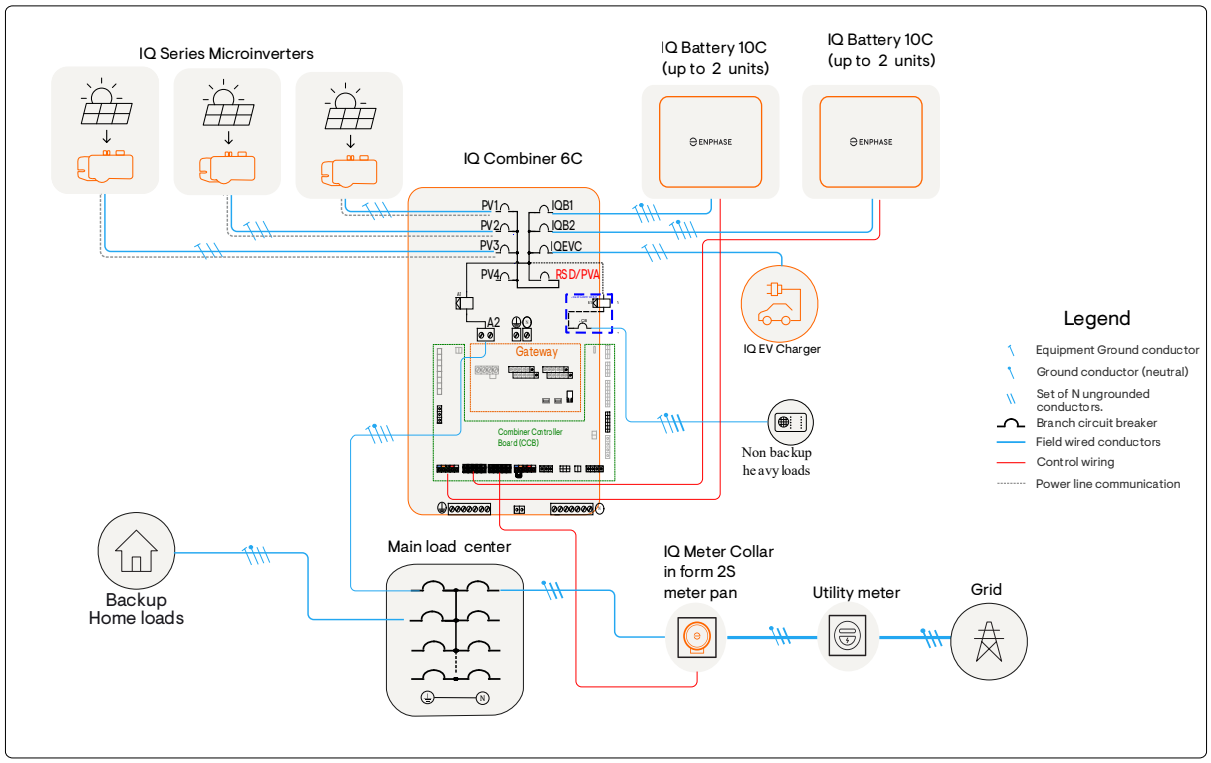


Figure 3: Grid-forming system - IQ Meter Collar in a separate meter pan

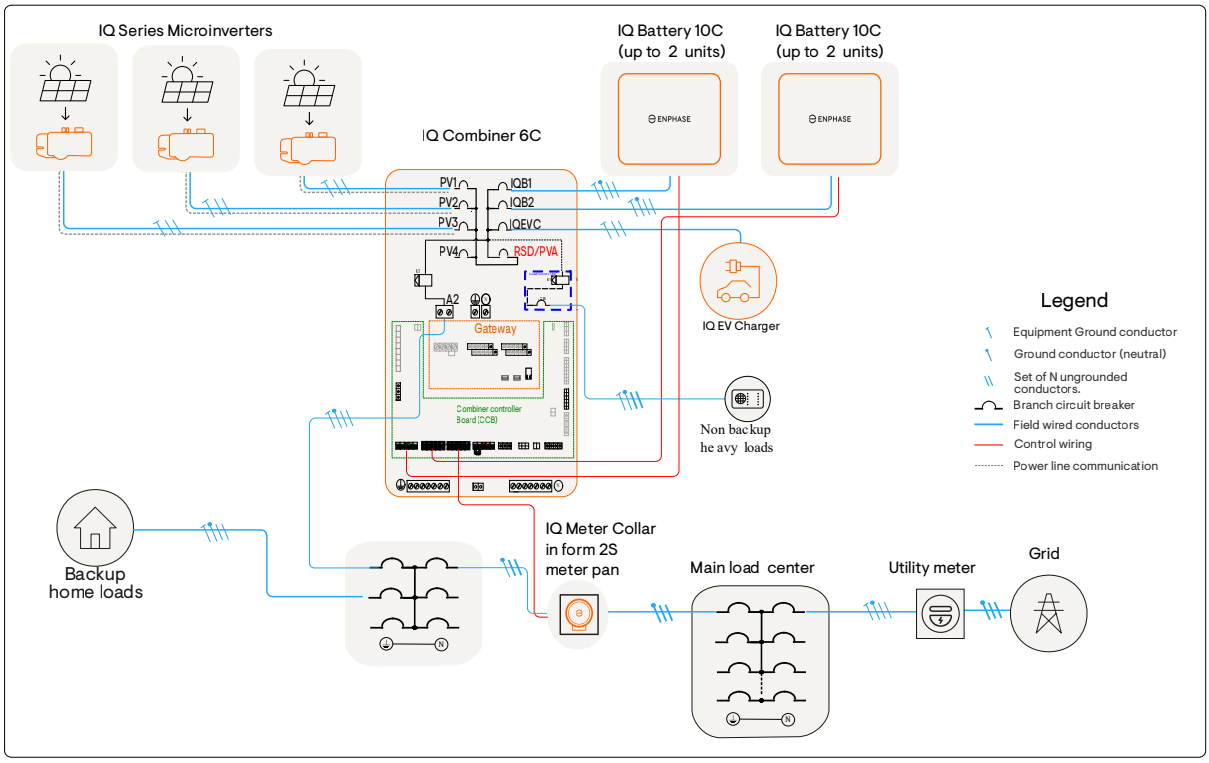


Figure 4: Grid-forming system - IQ Meter Collar in a separate meter pan as mains supply is more than 200 A

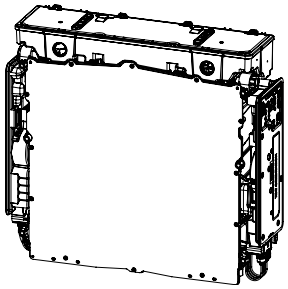
NOTE: Refer to the IQ Combiner 6C (SKU: X-IQ-AM1-240-6C) QIG for details on combiner connections.

4. What's in the box

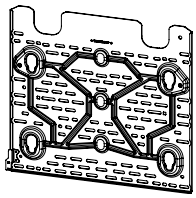
Each IQ Battery 10C (Order Code: IQBATTERY-10C-1P-NA) ships in three separate boxes.

- Two boxes—each containing a 5 kWh battery unit (B05-C01-US00-1-3)
- One box—containing the IQ Battery 10C cover kit (B10C-NC-0708-O)

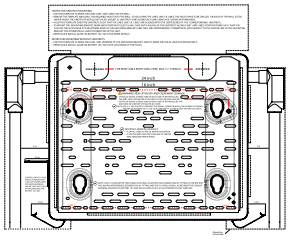
4.1 What's in each 5 kWh battery unit box (B05-C01-US00-1-3)



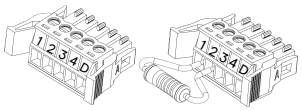
1 × 5 kWh battery unit



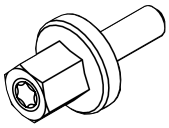
1 × mounting bracket



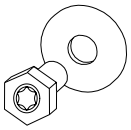
1 × drill template



Preinstalled control connectors and one spare connector provided in the accessory bag

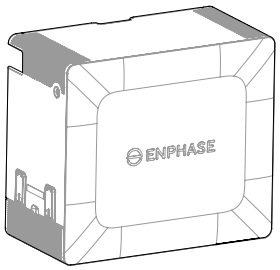


2 × seismic screws (Torx T25 or 1/2" hex drive)

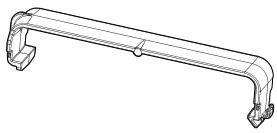


6 × M8 hex screws (Torx T25 or 1/2" hex drive) with washers for second mounting bracket installation (only 6 required)

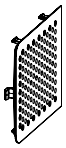
4.2 What's in the cover kit box (B10C-NC-0708-O)



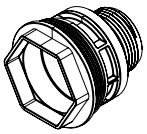
1 × IQ Battery 10C cover



2 × Cable holder



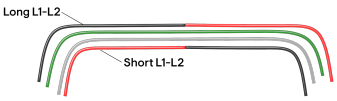
2 × Conduit cover



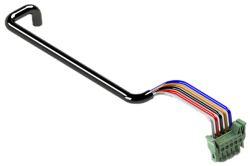
2 × Raceway adapter



1 × Quick install guide



Interconnect power cables (L1, L2, N- 4 AWG, GND- 8 AWG)



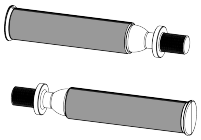
Interconnect control cable with one preinstalled control connector



Spare control connector with resistor

5. Tools required

Enphase accessories:



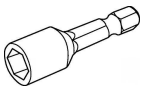
Lifting handles: B05C-LH-0180-O



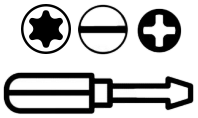
Measuring tape



Pencil and level



Hex drives[6] (1/2", 7/16" for wooden wall, 3/8" for concrete wall, or 9/16" for CMU wall)



Screwdriver: At least 8" long



Drill with drill bit: 5/32" pilot hole (for medium wood), 3/8" for concrete, or 1/2" for CMU block wall



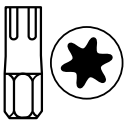
Protective gloves



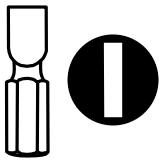
Torque wrench (1.8–88.5 in-lb or 0.2–10 N m)



Cable stripping tool



T25 Torx bit

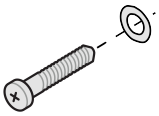


3/32" flat head bit



Milwaukee type ECX 1 or similar, or 7/32" flat head, or #2 square drive

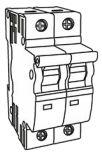
6. Additional items required



6 × 1/4" lag screws with washer to install the mounting bracket on the wooden wall or 6 × 1/4" anchor bolt for concrete wall or 6x 3/8" anchor bolt for CMU block wall



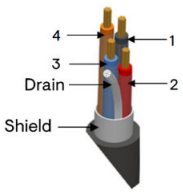
Conduits and fittings Up to 1.25 in (32 mm)



AC breaker: 40 A for one IQ Battery 10C or 80 A for two IQ Battery 10C (used inside IQ Combiner 6C)



Copper conductors- No. 8–3 AWG (11 mm or 7/16" strip length) (rated at 90°C) for terminals



Enphase SKU for control cable: CTRL-SC3-NA-01

NOTE: See Mounting battery units on the wall on page 19 to check the embedded depth of mounting screws.

NOTE: Conduit fittings must be NEMA Type 3R certified when installing outdoors.

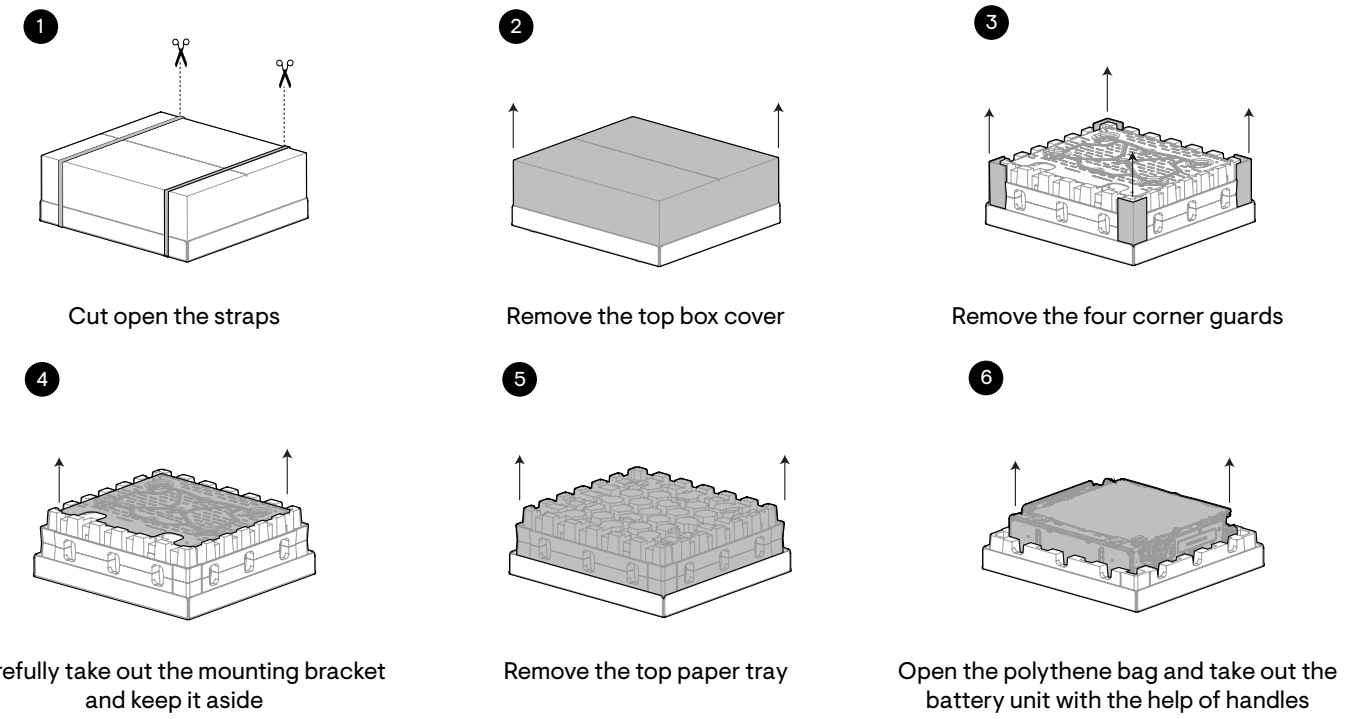
[6] An 8" extension bar or drive is required for use with a 1/2" socket during seismic screw installation.

7. Unboxing the IQ Battery 10C

Each IQ Battery 10C comes with two 5 kWh battery unit boxes and one IQ Battery 10C cover kit box.

Before unboxing the IQ Battery 10C–5 kWh battery unit, check the **Energize By** label on the shipping box to verify that the IQ Batteries will be installed by the date shown. If the date has passed, contact your distributor for next steps.

Follow the steps, as shown in the following image:



NOTE: Follow the steps mentioned in Installing the handles and lifting the 5 kWh unit on page 16 for handle installation and lifting of the unit.

Ensure to take out the accessories bag included in the IQ Battery packaging and store it securely for use during the installation.

Inspect the packaging and the IQ Battery(ies) for any signs of damage, such as cracks, dents, or electrolyte leakage. Do not install or use the IQ Battery(ies) if it has been dropped or damaged in any way. If the battery is damaged, contact your distributor for a replacement.

WARNING: Do not lift the IQ Battery 10C by holding onto the microinverters or the wiring compartment section. This may damage the unit permanently. Always use handles (SKU: B05C-LH-0180-O) to lift the IQ Battery 10C.

WARNING: Do not lift the packaging with the battery inside after cutting the plastic straps.

8. Planning installation layout

Planning the installation layout is an important step to make sure the IQ Battery 10C is installed and mounted correctly as per the specifications.

8.1 Choosing a location for the IQ Battery array



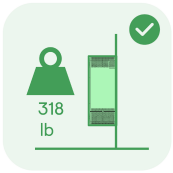
- IQ Battery 10C is NEMA Type 3R rated and can be installed indoors or outdoors. The terminal blocks on the IQ Battery 10C accept a maximum conductor size of 3 AWG for L1/L2/N and Ground terminals.

NOTE: The Enphase IQ Batteries have been evaluated to UL 9540A standard for outdoor and non-habitable indoor residential installations.

Units are intended to be installed only in:

- Detached garages and accessory structures.
- Attached garages.
- Outdoors on the exterior side of exterior walls or ground mounted.
- Indoors wall or floor mounted in non-habitable spaces such as enclosed utility closets, basements, storage, or utility spaces within the dwelling units.

Refer to local code requirements for these locations. Units should not be installed in sleeping rooms or indoor locations that open directly into sleeping rooms.



- Ensure the installed location can sustain the total weight of 318 lb (144 kg) per IQ Battery 10C. The wall must contain blocked studs that can bear the battery weight or be made of masonry or concrete walls with a minimum of 4.5" thickness or other suitable structures.
- When installing on a wooden wall, it is suggested to use a flame-inhibition plate between the wooden wall and IQ Battery 10C. Consult the regional building regulations for any additional requirements.
- Make sure there are no pipes or electrical wires where you plan to drill.





- Provide heat or smoke alarms in the residence in accordance with building, fire, and installation codes.
- Follow local standards, choose a non-habitable indoor location or an outdoor location where the ambient temperature and humidity are within -4°F to 131°F (-20°C to 55°C) and 5% to 95% RH, non-condensing. Avoid direct sunlight to ensure the temperature stays in the optimal operating range. This ensures charging and discharging currents are not de-rated due to temperature. The full performance will occur within 59°F to 113°F (15°C to 45°C) while charging and within 32°F to 122°F (0°C to 50°C) while discharging.





- Consider the dimensions of the IQ Batteries, easy access, height, and cable length when selecting the location.
- Select a location where you can easily make wiring connections of the IQ Battery 10C to the IQ Combiner 6C.

WARNING: Risk of injury. When the Battery is installed at a height that requires a ladder to access, two people must be present to safely remove the cover. Each person should use a stable ladder, maintain three points of contact, and coordinate movements to avoid injury. Never attempt removal alone or without proper ladder support.



- This product must not be installed at altitudes above 9,842 ft (3,000 m).

NOTE: Refer to the data sheet for all components used with IQ Battery 10C to define the maximum altitude. For example, IQ Battery 10C has a maximum altitude limit of 9,842 ft (3000 m) while Meter Collar has the limit of 8,202 ft (2500 m). When used together, the maximum altitude shall be 8,202 ft (2500 m).

- Follow all local standards and regulations set forth by the Authority Having Jurisdiction (AHJ).



- Up to two IQ Battery 10C units can be daisy-chained on a single branch circuit. IQ Combiner 6C supports up to a maximum of 80 A breakers for the IQ Battery 10C connection circuit.

NOTE: Up to four IQ Battery 10C units can be daisy-chained on a single branch circuit using battery oversubscription PCS. Ensure to add a PCS disclaimer label to all PCS-enabled IQ Battery 10C units.

- The maximum conductor size for IQ Battery 10C is 3 AWG for L1/ L2/N terminals and 8 AWG for ground terminals, and the maximum breaker rating with this conductor size is 80 A.

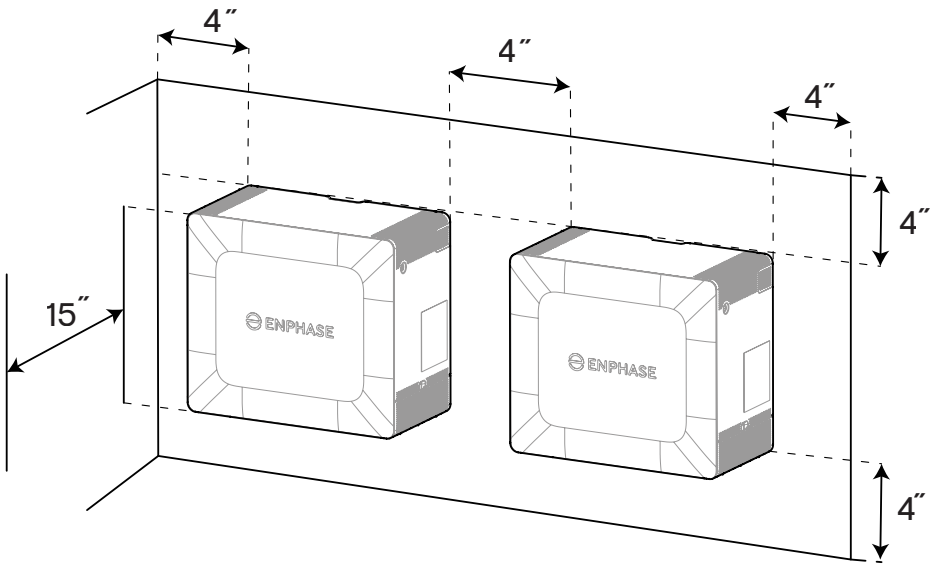
8.2 Minimum clearance

The mounting instructions provided are for the included mounting bracket only. If you wish to install IQ Battery 10C in a floor-mount configuration, order the pedestal accessory (Order code: B10C-PI-0550-O) and refer to the floor-mount instructions included with that product. This product must be installed with clearance at the left, right, top, bottom, and front of the product, as shown in the figure.

WARNING: If mounted in the path of a motor vehicle, Enphase recommends a minimum mounting height of 36 in (914 mm) above the floor.

NOTE:

- The 4" clearances are per the UL 9540A evaluation; Enphase recommends 8" clearances on the side and the top of the unit for ease of service and adequate ventilation. Ensure to comply with all local compliance and regulatory standards.
- The indicated clearances should be measured with respect to the external covers of the units.
- A 15" clearance in the front is recommended for ease of service. Follow the local and national regulations while planning.
- Keep the IQ Battery 10C away from falling or moving objects, including motor vehicles.

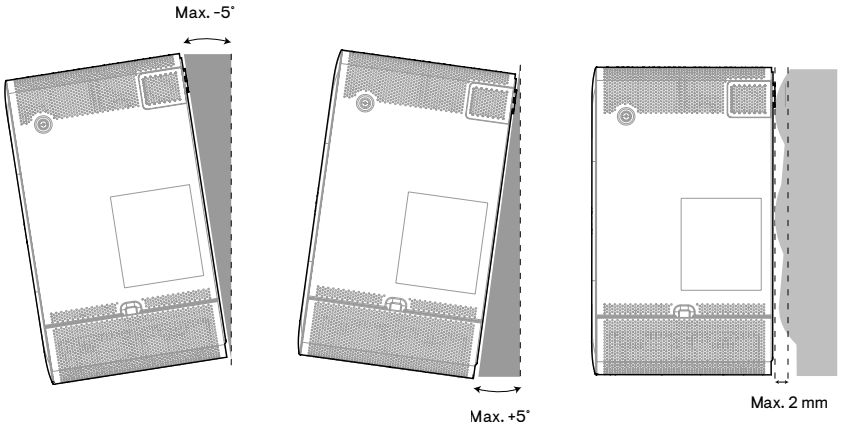


IQ Battery 10C – Minimum clearance

8.3 Mounting surface

NOTE:

- Select a location where the tilt from vertical is less than 5°.
- Ensure the mounting surface flatness is within 0.08 in (2 mm) between boundary lines.
- Use spacers or Unistruts if the undulations are more than 0.08 in (2 mm) deep.



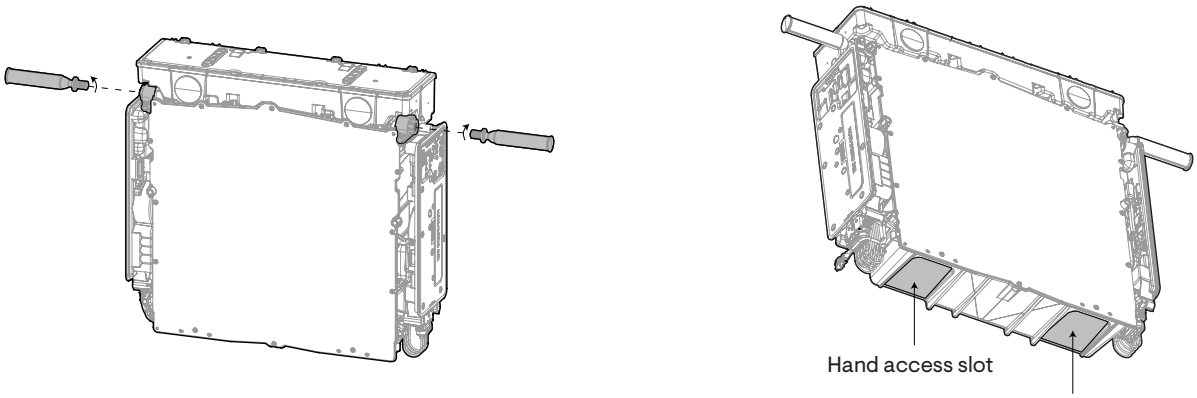
8.4 Installing the handles and lifting the 5 kWh unit

NOTE:

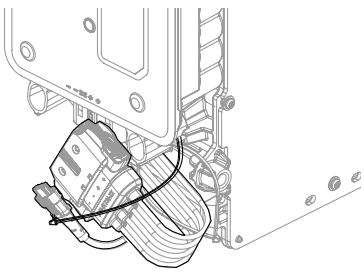
- A minimum of two people are required to lift the battery unit.
- Use lift assist if manual lifting is not permitted per local or national regulations, lifting weight: 125.6 lb (57 kg).

Insert and screw the handles onto the battery unit as shown to facilitate lifting the unit.

NOTE: If the handle is stuck, then use a 15/16" spanner on the provided slot to remove it.

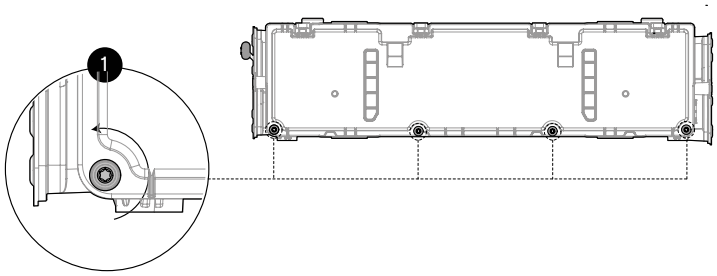


NOTE: To prevent damage during on-site handling, the male DC input connectors on both sides and associated control switch circuit wiring only on the left side of the unit are secured to their respective microinverter chassis using cable ties. Installers must sever these ties after installing the unit on the mounting bracket to facilitate the proper interconnection of the DC leads to the microinverter, thereby enabling the unit to be energized.

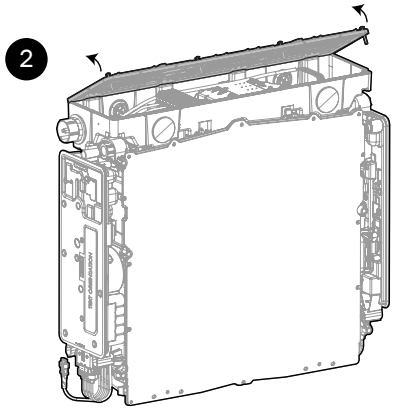


8.5 Removing the wiring cover

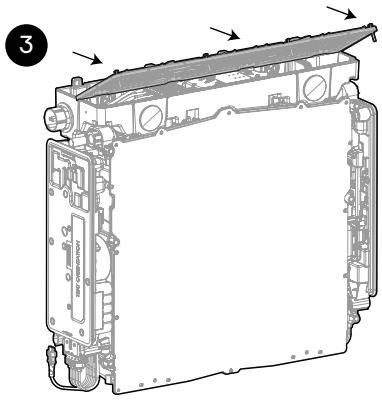
1. Loosen the four captive screws (torque to 19.5 in-lb or 2.2 N m).



2. Lift the front side of the wiring cover carefully.



3. Gently slide it forward to disengage it from the latches. Remove the wiring cover and keep it aside.

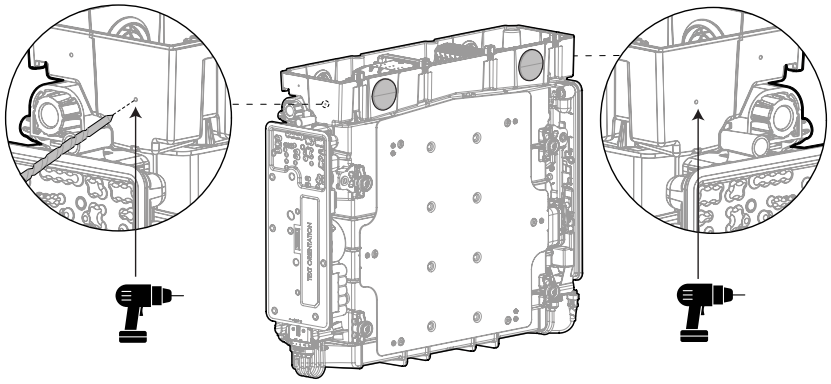


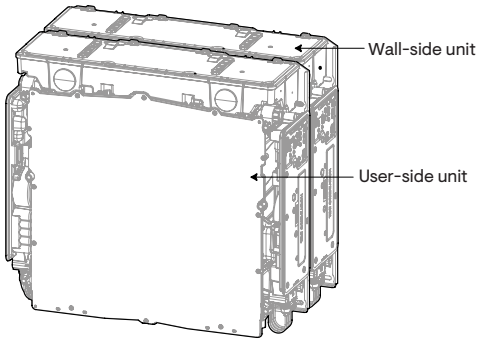
8.6 Selecting the conduit entry point and drilling

NOTE:

- All field wiring connections must be done on the wall-side unit only.
- Each battery unit has four conduit entry points in the wiring compartment—one on each side and two on the rear.
- Drilling is required if conduit entry is from the left and/or right sides. Conduit sizes up to 1.25" are supported.
- The rear side has predrilled 1.25" holes with conduit plugs inserted.
- The front side has predrilled 1" holes with conduit plugs inserted.
- Removal of wiring cover before drilling is essential to avoid damaging components.
- Clean any debris inside the wiring compartment after drilling.

1. For side entry, drill the wiring compartment at the marked indentation on the wall-side unit only.

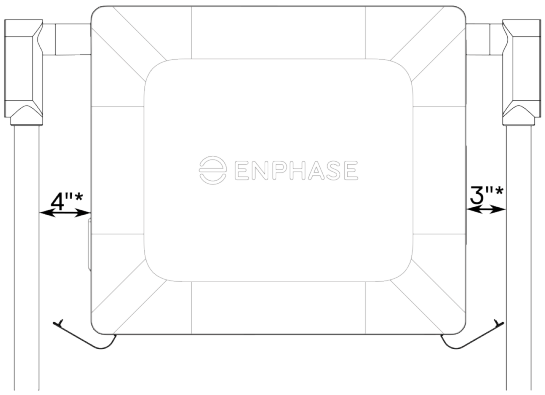




NOTE: The wall-side and user-side units are identical; it is the placement of the unit that determines whether it is a wall-side or user-side unit.

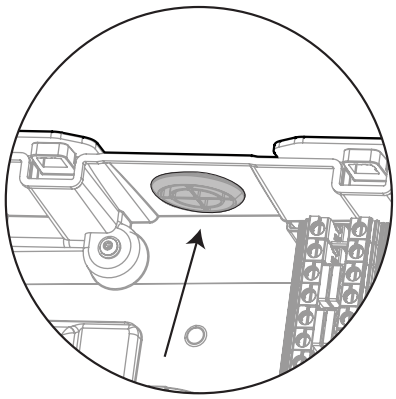
NOTE: Ensure the conduit is appropriately sized to accommodate all four power conductors (L1, L2, N, and GND) as well as the control (CTRL) cable during the drilling process. Consider the fill factor for conduit (if required for the region).

NOTE: Use a **chase nipple** and **rigid coupling** as spacers for connecting a 90° fitting to the battery. This avoids interference between the 90° fitting and the battery ID cover. This is also needed to avoid interference between the conduit running adjacent to IQ Battery 10C and the cover flaps. Ensure the joints are properly fastened and are watertight.



2. For rear entry, push the conduit plugs out from inside the wiring compartment.

NOTE: When using 1" conduits, a standard off-the-shelf reducing washer (sized 1 1/4" to 1") will be required to ensure proper fitment.



3. Remove the front conduit plug of the wall-side unit and the rear conduit plugs from the user-side unit to install the raceway adapters.

NOTE: The front conduit plugs of the user-side units should not be removed.

9. Mounting battery units on the wall

This section outlines the mounting requirements, positioning, and safety precautions to ensure proper setup and secure attachment of the IQ Battery 10C to the wall.

NOTE:

- The IQ Battery 10C can be mounted on masonry or concrete walls with a minimum 4.5" thickness, or wall studs spaced at 24" or 16".
- Six uniformly distributed lag bolts or screws with washers are required to support the weight of IQ Battery 10C 317.5 lb (~144 kg).
- If installed on wooden studs, each stud must have at least three bolts for uniform load distribution on the wall.
- Single-stud mounting is not supported.

The following table highlights the fastener required for mounting the IQ Battery 10C on various wall types.

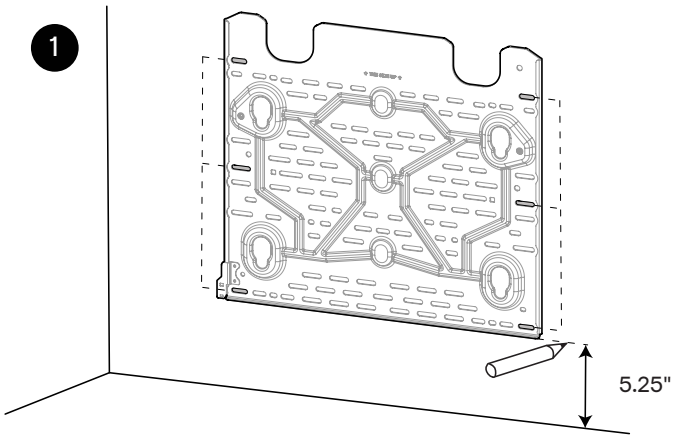
NOTE: These are recommendations and installers have the flexibility to use equivalent ones and follow the recommendations as per the selected bolts manufacturer data sheet. Follow manufacturers torque recommendation while fastening the anchor bolt/screws or lag screws. For additional information, refer to https://enphase.com/installers/resources/documentation/storage.

Serial no.	Wall type	Type of screw	Screw diameter	Drive size	Drill bit size	Min. thread embedment depth	Remark
1	Wooden wall with Wood studs+ Sheetrock/ Gypsum board	Lag screw	1/4"	7/16" Socket drive	5/32" pilot hole[7]	2.25" into the stud (2"x4" or 2"x6" stud)	Drill bit size will change based on the type of wood (Soft, medium, hard)
2	Wooden wall with wood studs+ Horizontal wood blocks	Lag screw	1/4"	7/16" Socket drive	5/32" pilot hole[7]	2.25" into the stud (2"x4" or 2"x6" stud)	Drill bit size will change based on the type of wood (Soft, medium, hard)
3	Wooden wall with Wood studs + Sheetrock/ Gypsum board + Unistruts	Lag screw	1/4"	7/16" Socket drive	5/32" pilot hole [7]	2.25" into the stud (2"x4" or 2"x6" stud)	Drill bit size will change based on the type of wood (Soft, medium, hard)
4	Wooden wall with Wood studs + Stone/Brick veneer	Lag screw	1/4"	7/16" Socket drive	5/32" pilot hole[7]	2.25" into the stud (2"x4" or 2"x6" stud)	Drill bit size will change based on the type of wood (Soft, medium, hard)

[7] Pilot hole size is for medium wood. Follow the general guidelines for softwood and hardwood.

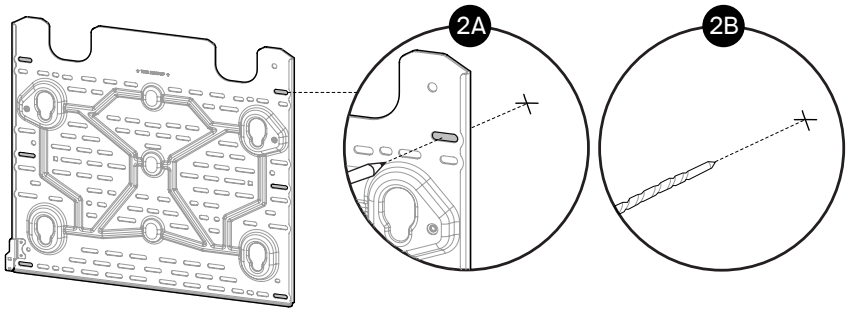
Serial no.	Wall type	Type of screw	Screw diameter	Drive size	Drill bit size	Min. thread embedment depth	Remark
5	Concrete	Anchor bolt/ Screw anchor	1/4"	3/8" Wrench (Simpson, Titen HD) or 7/16" Wrench (Hilti, KH-EZ)	1/4"	2.75" into the concrete (Simpson, Titen HD) or 2.5" into the concrete (Hilti, KH-EZ) (Min 4.5" concrete thk)	Determine min embedded depth if any other anchor bolt is used
6	CMU Block	Anchor bolt/ Screw anchor	3/8"	9/16" Socket drive	3/8"	2.75" into the CMU block (Simpson) or 3.25" into the CMU block (Hilti)	Determine min embedded depth if any other anchor bolt is used

1. Starting at the installation position closest to the power source, mark a level line on the mounting surface as a guide, at least 5.25" above the floor or ground.[8]



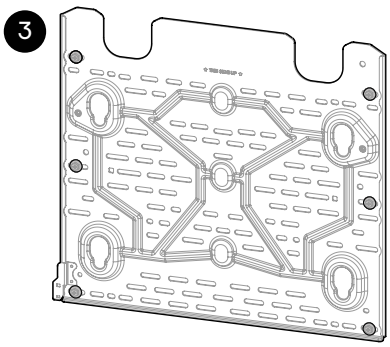
2. Align the bottom of the drill template with the mark made and use the drill template to mark the drilling points on the wall. Drill the holes on the mounting surface.

WARNING: Multiple risks. Make sure not to drill into electric wiring or pipes in the wall.



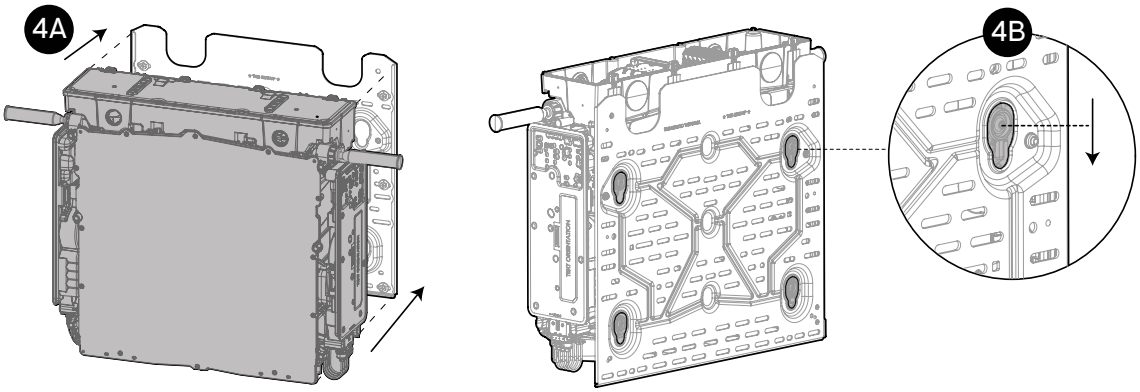
3. Fasten the mounting bracket to the wall with lag bolts or screws with washers.

[8] Positioning the mounting bracket 5.25" from the ground ensures the battery unit is 4" from the ground.



4. Lift the unit using the handles and bring it close to the already mounted mounting bracket. Hold the battery straight, align, and insert four mount bolts on the battery unit into the mounting bracket keyholes and slide it down. Unscrew the handles.

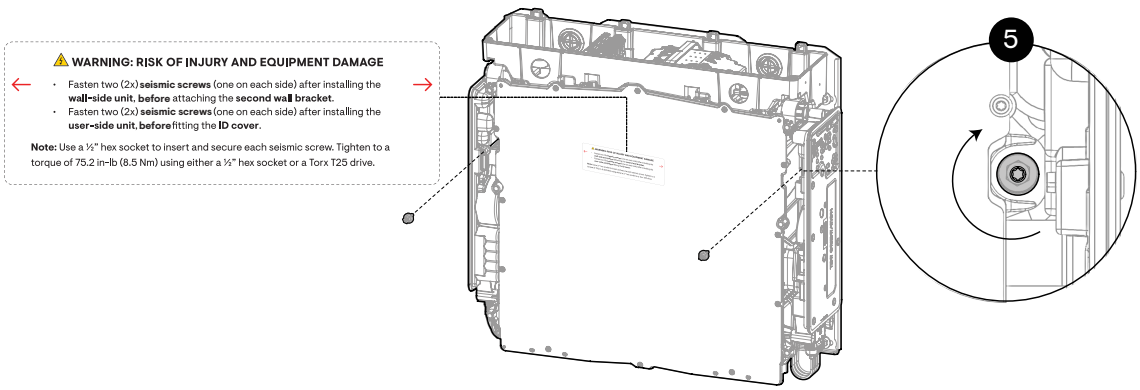
NOTE: Use lift assist to avoid any mishap during lifting.



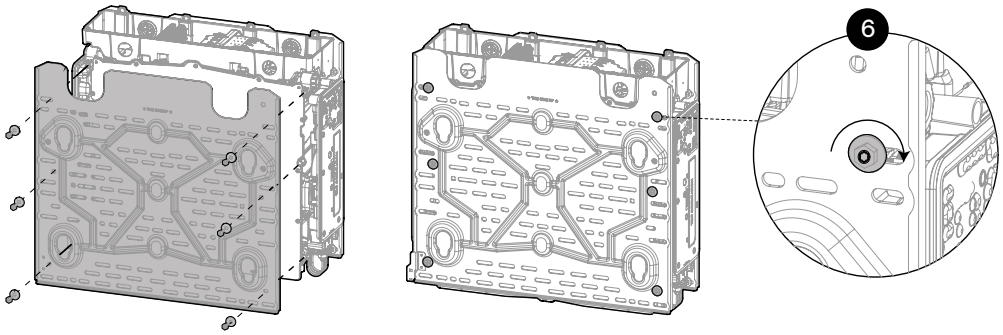
5. Fasten two seismic screws to the wall-side battery unit. Use a screwdriver with Torx T25 bit or hex drive (size 0.5 in) with an extension if required (torque to 75.23 in-lb or 8.5 N m).

NOTE: If multiple IQ Battery 10C units are planned with rigid conduits between them, refer to step 12 in this section before securing the seismic screws.

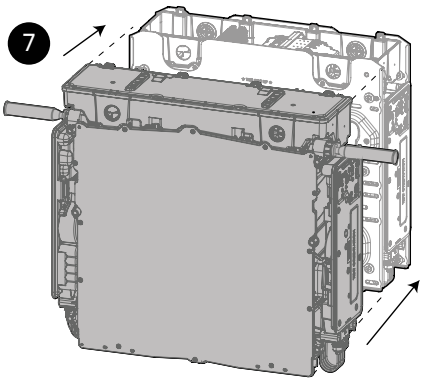
NOTE: Use a hex head socket to prevent the seismic screw from falling into the unit. If the screw drops inside, recovery is difficult and time-consuming. This best practice helps ensure a safer and more efficient installation.



6. Use six M8 screws and washers (provided in the accessory kit) to fasten the second mounting bracket to the predefined points on the chassis of the already mounted battery unit (torque to 88.5 in-lb or 10 N m).

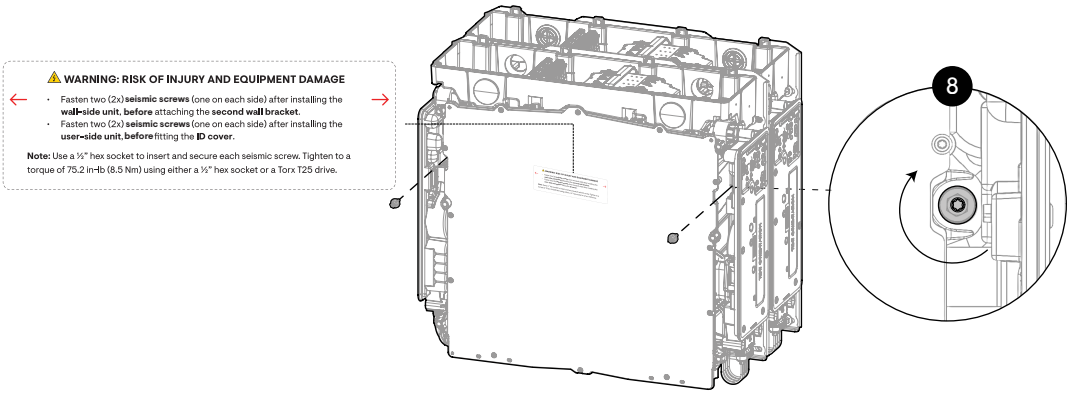


7. Lift the unit using the handles and install the user-side battery unit into the slots on the mounting bracket. Unscrew and remove the handles.

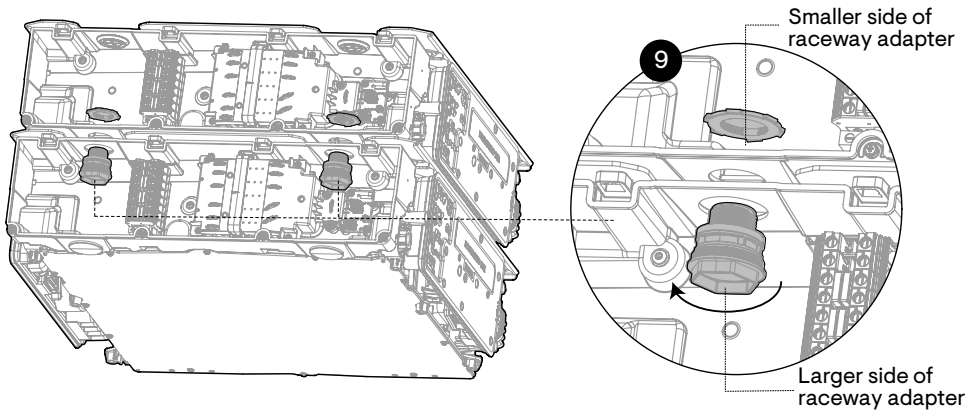


8. Fasten two seismic screws to the user-side battery unit. Use a screwdriver with Torx T25 bit or a hex drive (size 0.5 in) with an extension if required (torque to 75.23 in-lb or 8.5 N m).

NOTE: Use a hex head socket to prevent the seismic screw from falling into the unit. If the screw drops inside, recovery is difficult and time-consuming. This best practice helps ensure a safer and more efficient installation.



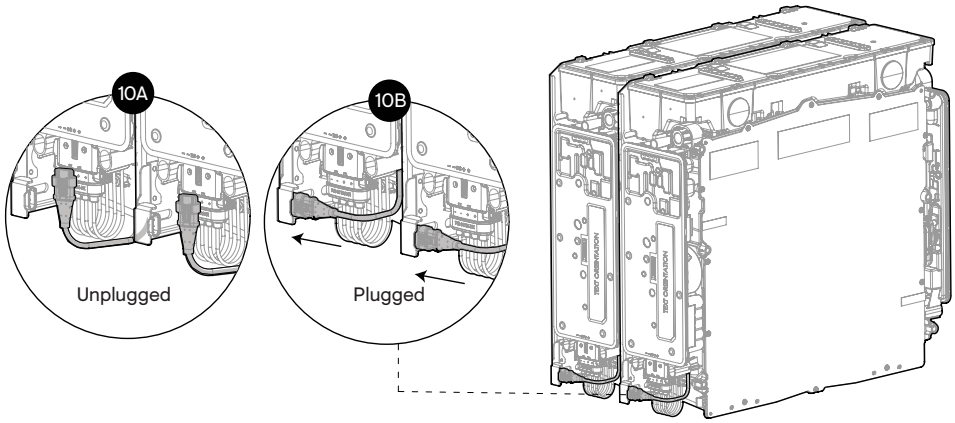
9. Install raceway adapters between the units by fastening locknuts as shown (torque to 53.1 in-lb or 6 N m).



NOTE: It is essential to install both raceway adapters for proper cable management and ingress protection.

10. Plug two control switch connectors into the holders on mounting brackets to protect it and the cable from pinching during cover installation.

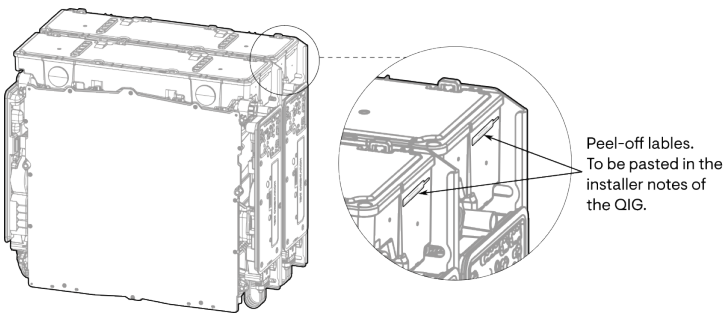
NOTE: Carefully cut the cable tie used for tying the control switch connector and the battery DC connector before plugging the control switch connector into the holders on the mounting brackets.



NOTE:

- To prevent the control switch connectors from getting pinched and damaged during ID cover installation, it is essential to plug both connectors into the mounting bracket holder prior to installing the cover.
- Ensure that all the connectors are latched properly.

11. Paste peel-off serial number labels of two 5 kWh units of IQ Battery 10C in the space provided in Installer notes on page 41, of this quick install guide. This will be helpful during the commissioning activity.



12. Perform the following steps when installing rigid conduits between two IQ Battery 10C units:
    a. Mount the wall-side unit of the first IQ Battery 10C onto the wall. At this stage, do not install the seismic screws to allow for necessary adjustments.
    b. Mount the wall-side unit of the second IQ Battery 10C onto the wall, similarly without installing the seismic screws.
    c. Slightly tilt both wall-side units to create clearance, then carefully slide the rigid conduit into the designated connection point between them.
    d. Adjust and securely fasten the rigid conduit to ensure proper alignment and connection. Once the conduit is secured, install the seismic screws on both units and tighten them fully.
    e. After the conduit connection between the wall-side units is complete and secured, proceed with the installation of the user-side units to complete the installation, as mentioned in steps 6 to 11 in this section.

10. Wiring

This section provides detailed instructions for wiring and connecting components of the IQ Battery 10C system, including interconnect power cables, interconnect control cables, and field power cables. It outlines the required steps for proper cable routing, terminal connections, torque specifications, and system validation to ensure optimal performance and compliance with safety standards. Key considerations for cable management, resistor placement, and system configuration are also included, making this guide essential for a safe and efficient installation of the IQ Battery 10C and related components.

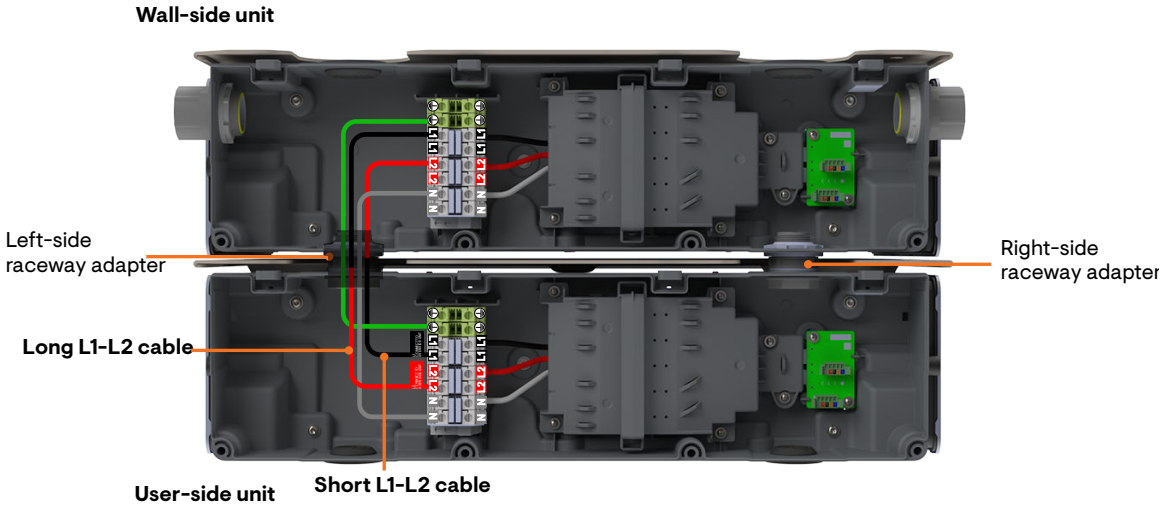
10.1 Connecting the interconnect power cables

NOTE:

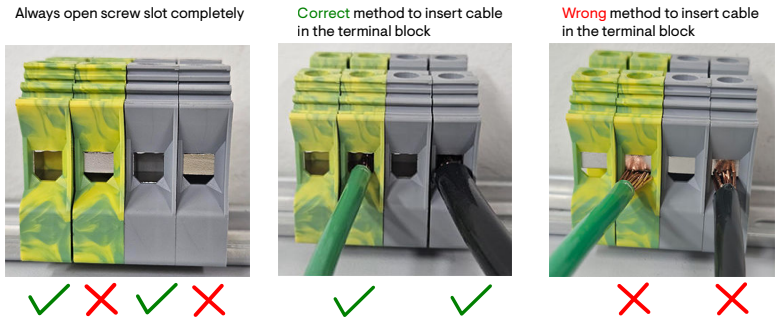
- The interconnect power cables are dual-colored, with L1 marked on the cable's black part and L2 marked on the red part.
- For interconnect power cables, the L1 terminal of the wall-side unit connects with the L2 terminal of the user-side unit, and the L2 terminal of the wall-side unit connects with the L1 terminal of the user-side unit.
- Power and control interconnect cables will run through the left and the right side raceways, respectively.

Assemble the cables in the following sequence (torque to 22.1 in-lb or 2.5 N m):

1. Route interconnect power cables (L1, L2, N, and GND) through the left raceway adapter.
2. Connecting the short L1-L2 cable:
    - Connect the **red end** to the **L2 terminal** closer to the wall on the **wall-side unit**.
    - Connect the **black end** to the **L1 terminal** closer to the user on the **user-side unit**.
3. Connecting the long L1-L2 cable:
    - Connect the **black end** to the **L1 terminal** closer to the wall on the **wall-side unit**.
    - Connect the **red end** to the **L2 terminal** closer to the user on the **user-side unit**.
4. Connecting the neutral cable:
    - Connect it to the **N terminal** closer to the wall on the **wall-side unit**.
    - Connect it to the **N terminal** closer to the user on the **user-side unit**.
5. Connecting the ground cable. Connect it to the ground terminals on both units.



WARNING: Risk of equipment damage. Improper wiring or loose connections may lead to thermal failures. Ensure that the cable is correctly inserted and secured to avoid potential damage and ensure optimal performance.



NOTE: The Milwaukee-type ECX-1 (or similar square/flat combo driver) provides the best grip and performance for torquing connections. A 7/32" flat head is good and acceptable for torquing. A #2 square drive is acceptable, however, it carries a risk of rounding the screw.

NOTE: The ends of interconnect power cables are labeled with the battery unit location (user-side/wall-side) and respective terminal (L1/L2). Insert the cables into their respective terminals (as per the label) for accurate and hassle-free installation.

10.2 Connecting the interconnect control cable

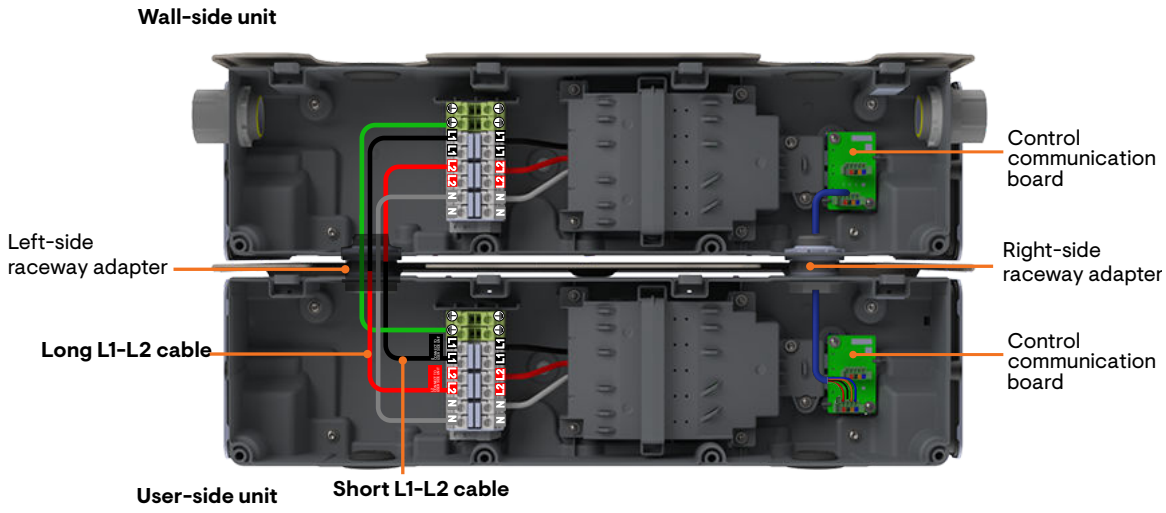
NOTE:

- The interconnect control cable comes with one pre-installed connector on one end, while the other end is left free for easy routing through the raceway adapter.
- Power and control interconnect cables will run through the left and the right-side raceways, respectively.

1. Route the interconnect control cable through the right-side raceway adapter.
2. The interconnect control cable comes stripped on one side and with a pre-installed connector on the other side. Connect the stripped end of the interconnect control cable to the control connector available on the control communication board (torque to 1.8 in-lb or 0.2 N m).

WARNING: Do not connect the drain wire on the free end of the interconnect Control Cable, as the drain wire is already connected to the pre-installed connector.

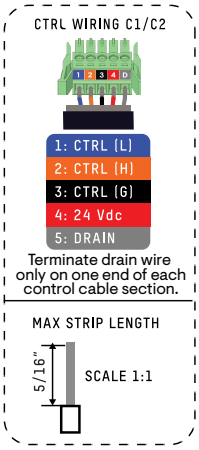
3. Connect the control connectors installed at the two ends of the interconnect cable on the control communication boards of the wall-side and user-side units.
4. For additional information on control wiring and to remove or add/keep a resistor on the control connector, refer to Wiring the control (CTRL) cable between system components on page 26.



10.3 Wiring the control (CTRL) cable between system components

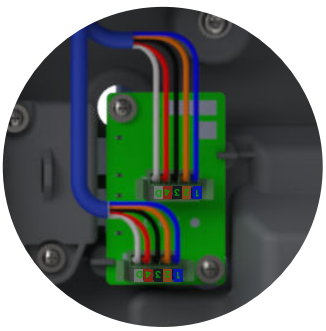
NOTE:

- The control cable must comply with UL 3003, UL 1277, and UL 83 standards. The Enphase Control Cable (SKU: CTRL-SC3-NA-01) has optimal impedance and has been validated for optimal system performance. Third-party cables may not have the correct characteristic impedance, and consequently, may not work reliably. Enphase cannot guarantee performance when a third-party control cable is used.
- The same conduits can be used for power and control cable routing only when using an Enphase Control Cable.
- Refer to the **CTRL wiring C1/C2** label available on the product for easy reference.

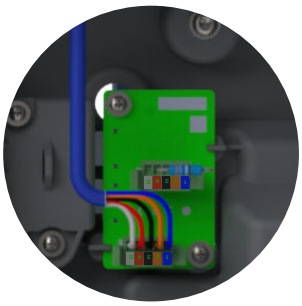


WARNING: Terminate the drain wire on only one end of each control cable section.

- Each component at the end of the control network should have one header with a termination resistor installed.



First and intermediate control communication boards

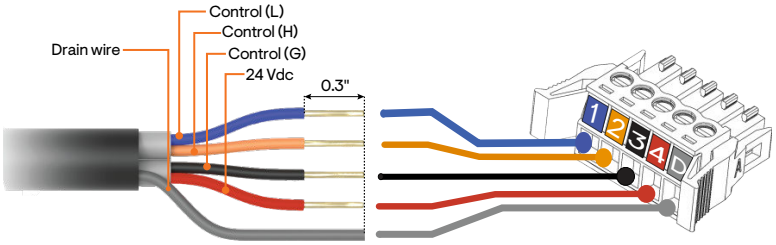


Last control communication board with resistor installed on one control connector

- Both control connectors (C1/C2) present on the control communication board are identical and can be used interchangeably.

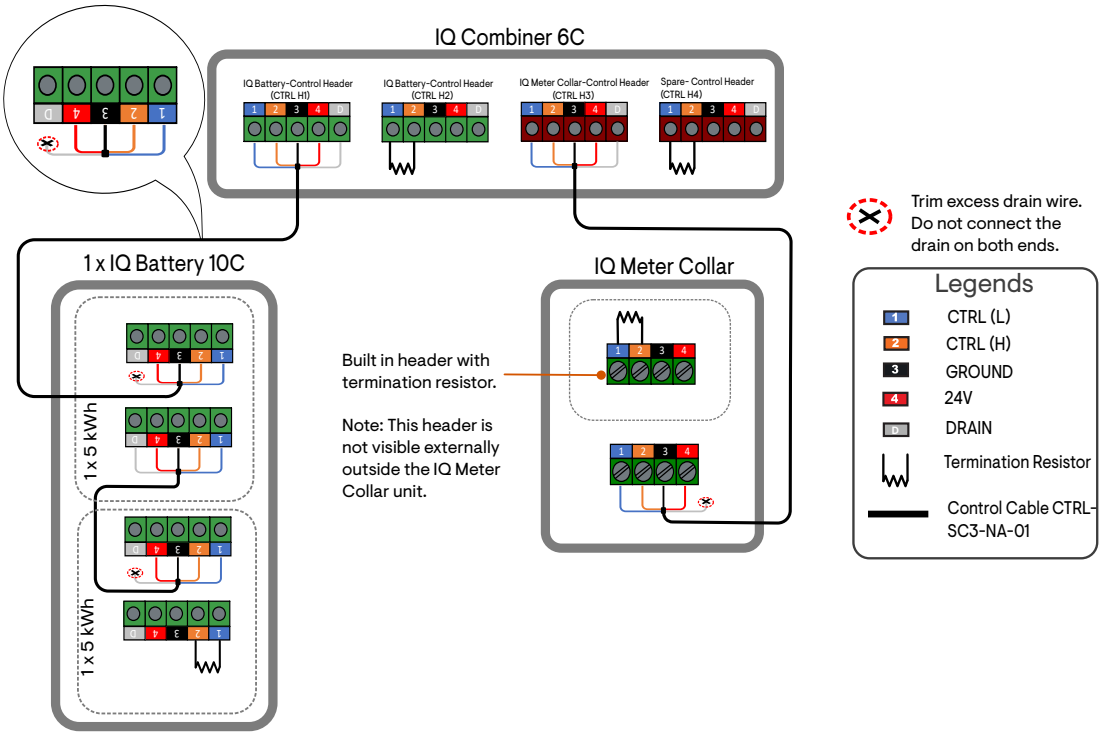
- The total length of control wiring across the system cannot exceed 250 feet to ensure the system operates as per specifications.
- Ensure the drain wires do not come in contact with any live connection.
- Ensure that all five wires (purple-L, orange-H, black-G, red-24 Vdc, gray-drain wire) are connected properly to the control connector.
- For the control connector of the IQ Meter Collar, a drain wire connection is not required.

1. After routing the control cable, connect it to the connectors (torque to 1.8 in-lb or 0.2 N m).



2. Plug in the connectors, and termination resistor and connect drain wires depending on the configuration.

   a. One IQ Battery 10C with IQ Combiner 6C



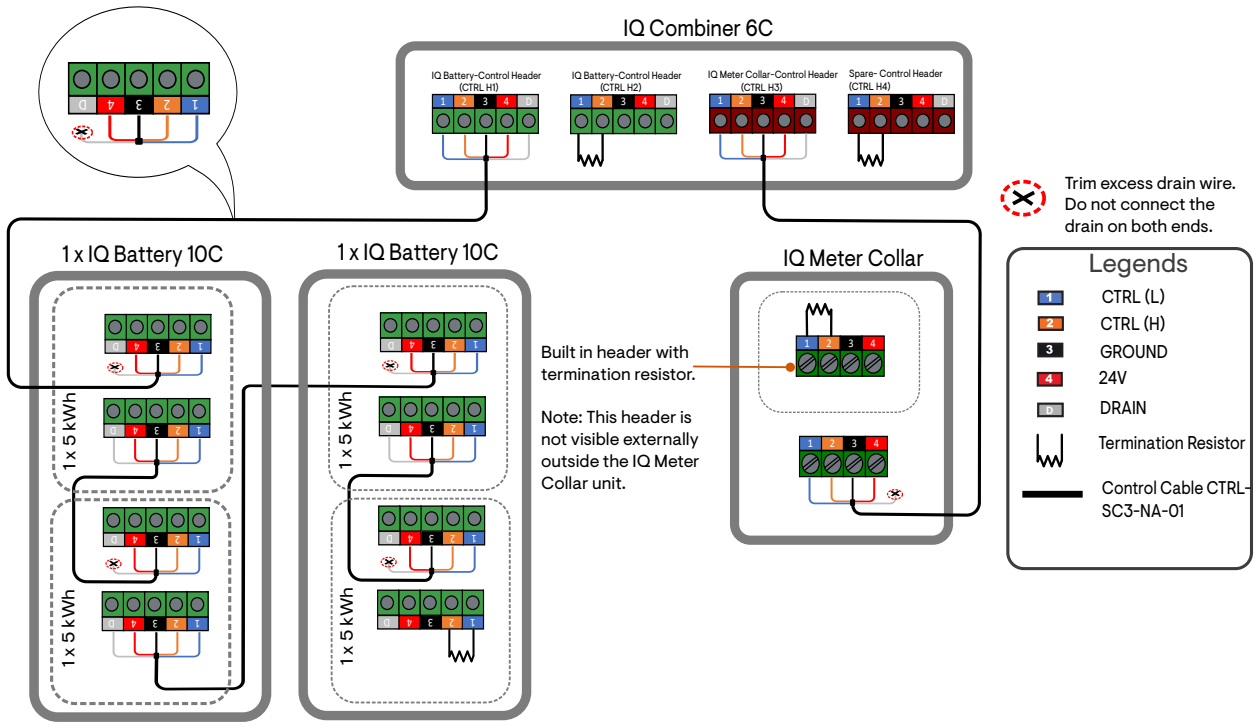
- The drain wire should only be terminated on one end of the control wiring between system components.
- Do not connect the drain wire to the IQ Meter Collar. The drain wire must terminate on IQ Combiner 6C.
- Do not exceed a total control wiring length of 250 feet between IQ Combiner 6C and the batteries.
- Do not exceed a total control wiring length of 250 feet between IQ Combiner 6C and IQ Meter Collar/system components.

NOTE: There are multiple ways to connect the control wiring. The preceding figure illustrates one correct method.

WARNING: Terminate the drain wire on only one end of each control cable section.

NOTE: Use a termination resistor for all the unused control connection points.

   b. Two IQ Battery 10C units with IQ Combiner 6C



- The drain wire should only be terminated on one end of the control wiring between system components.
- Do not connect the drain wire to the IQ Meter Collar. The drain wire must terminate on IQ Combiner 6C.
- Do not exceed a total control wiring length of 250 feet between IQ Combiner 6C and the batteries.
- Do not exceed a total control wiring length of 250 feet between IQ Combiner 6C and IQ Meter Collar/system components.

NOTE: There are multiple ways to connect the control wiring. The preceding figure illustrates one correct method.

WARNING: Terminate the drain wire on only one end of each control cable section.

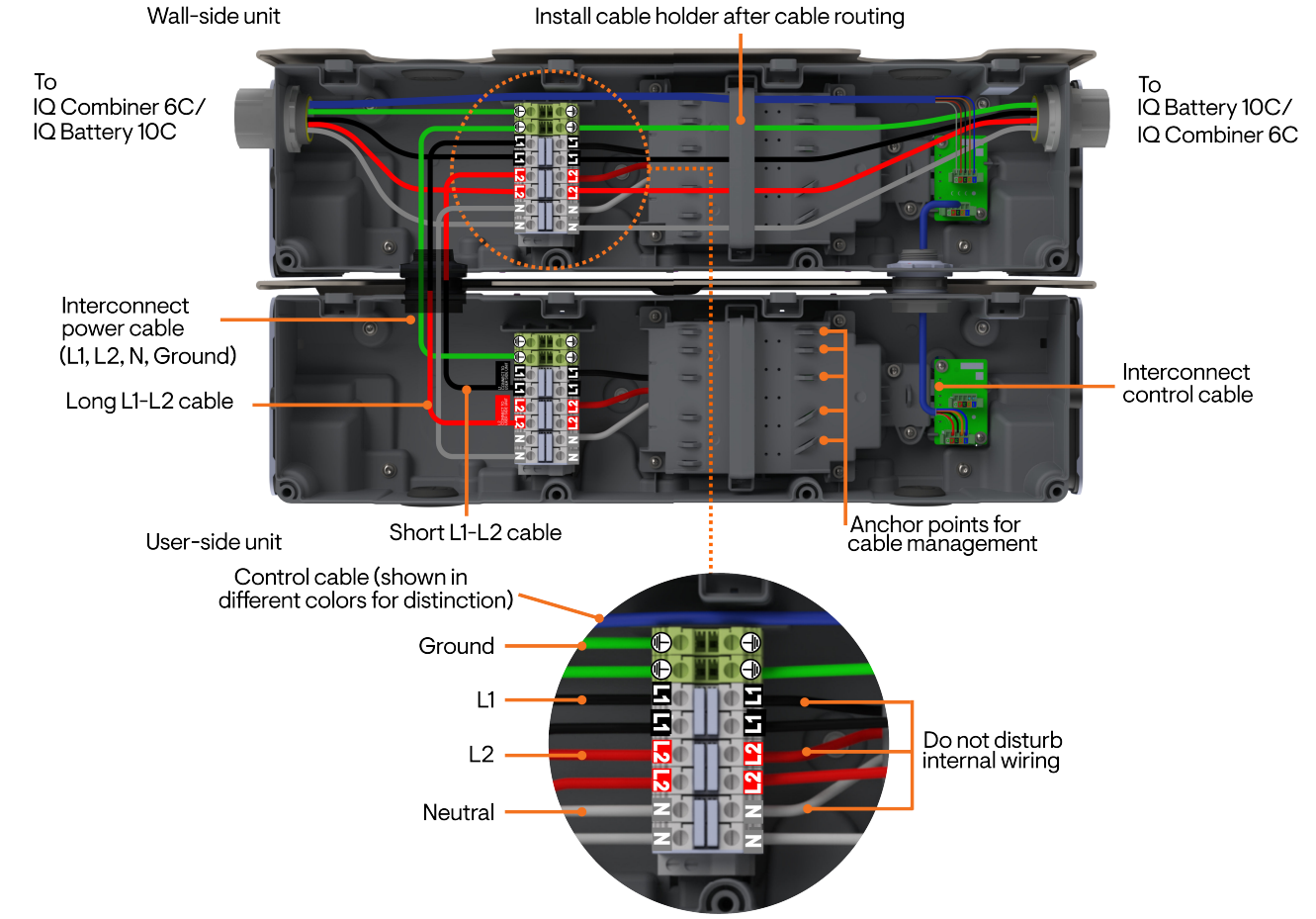
NOTE: Use a termination resistor for all the unused control connection points.

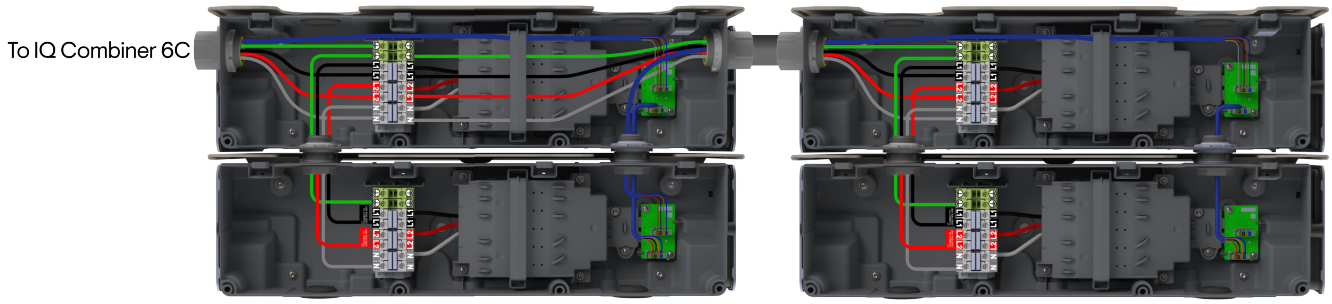
10.4 Connecting the field power cables

NOTE:

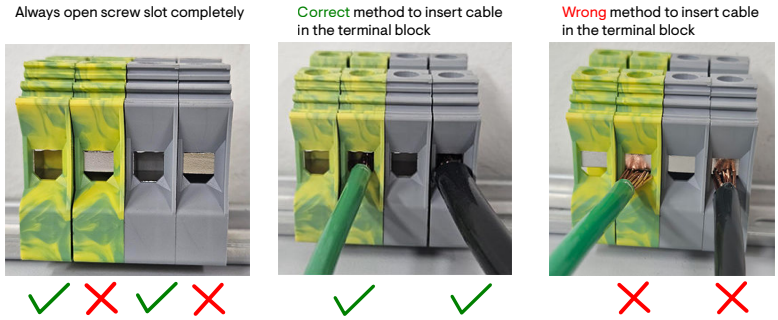
- The maximum conductor size for IQ Battery 10C is 3 AWG for L1/ L2/N and Ground terminals.
- Interconnect power cable and control cable must be wired for all IQ Battery 10C units at the site before connecting the field power cables.
- Cable holders and anchor points are provided on each unit for wire managing the field cables.
- Cable ties are available in the accessory kit inside the battery unit packaging box. Anchor the cables as shown to ensure the proper cable routing, avoid wire separation from the terminals, and provide unrestricted access for the wiring cover assembly.
- Make sure no conductor is exposed once the wiring is complete.
- A maximum of two IQ Battery 10C can be daisy-chained on a single branch circuit.
- In the case of only one IQ Battery 10C installation, the conduit entry is required only on one side.
- Do not disturb the factory connections on terminal blocks during field wiring.

1. Route field power cables as indicated between the wall-side of two IQ Battery 10C units or between IQ Combiner 6C and the wall-side of an IQ Battery 10C unit.
2. Connect cables to respective terminal blocks (torque to 22.1 in-lb or 2.5 N m).
3. Repeat the above steps for all IQ Battery 10C units at the site and the IQ Combiner 6C.
4. Install cable holder for proper cable management. If required, secure the cables to the anchor points using cable ties.
5. Turn on the AC breaker to which the IQ Battery 10C units are connected. Using a voltmeter, check the voltage across L1 –L2 (240 V), L1-N (120 V), and L2-N (120 V) terminal blocks to ensure that they are within the operating range mentioned in the data sheet.
6. If the AC voltage is within the normal range mentioned in the data sheet, turn off the power supply and proceed further. If the measured voltage is outside the normal range, check the supply from the mains or correct the field wiring.





WARNING: Risk of equipment damage. Improper wiring or loose connections may lead to thermal failures. Ensure that the cable is correctly inserted and secured to avoid potential damage and optimal performance.



NOTE: The preceding image shows field wiring entering through the left side of the battery units. It can enter through the right side of the battery units as well.

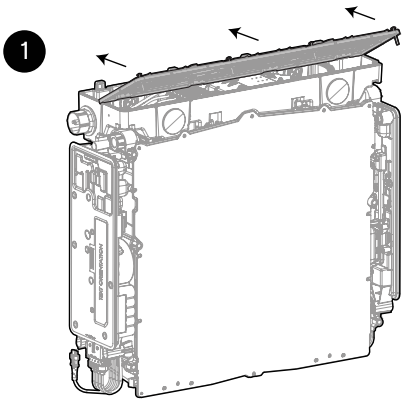
NOTE: The Milwaukee-type ECX-1 (or similar square/flat combo driver) provides the best grip and performance for torquing connections. A 7/32" flat head is good and acceptable for torquing. A #2 square drive is acceptable, however, it carries a risk of rounding the screw.

11. Closing and energizing the unit

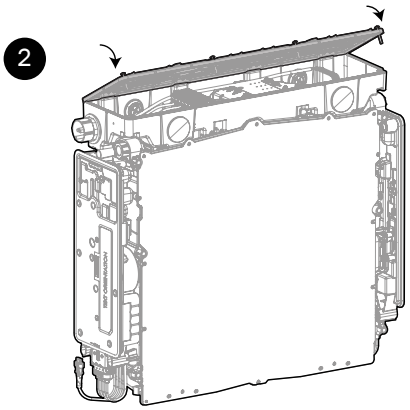
This section provides step-by-step instructions for closing and energizing the IQ Battery 10C unit. It covers the process of securing the wiring cover, connecting battery DC connectors, attaching the cover assembly, and connecting the control switches. Follow the outlined steps carefully to ensure proper installation and operation of the unit, while adhering to the specified torque requirements and safety precautions.

11.1 Closing the wiring cover

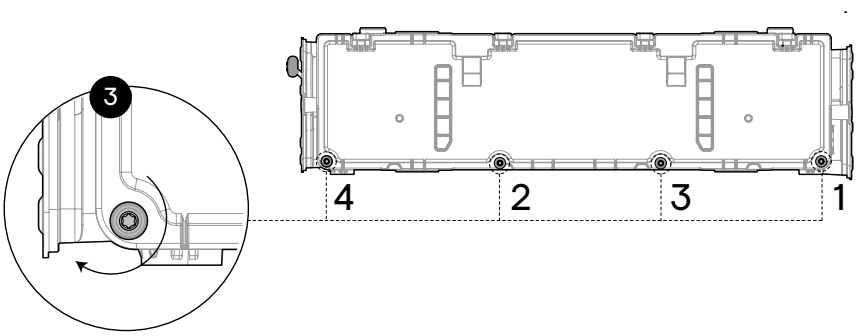
1. Slide the wiring cover under the latches.



2. Tilt the wiring cover.



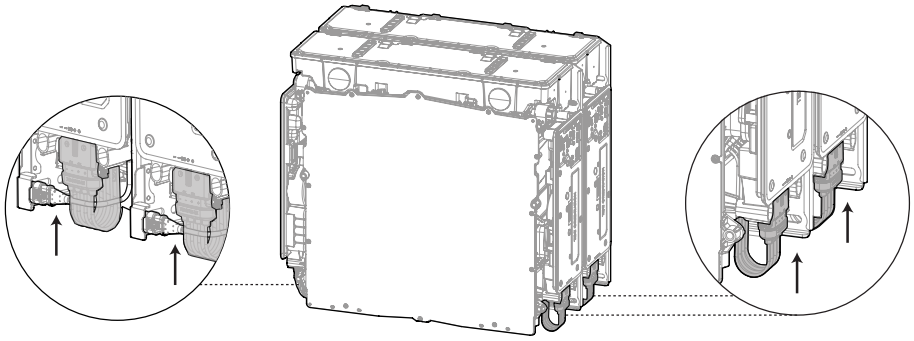
3. Fasten the four encircled captive screws as per shown sequence to close and secure the wiring cover (Torx 25 bit, torque to 19.5 in-lb or 2.2 N m).



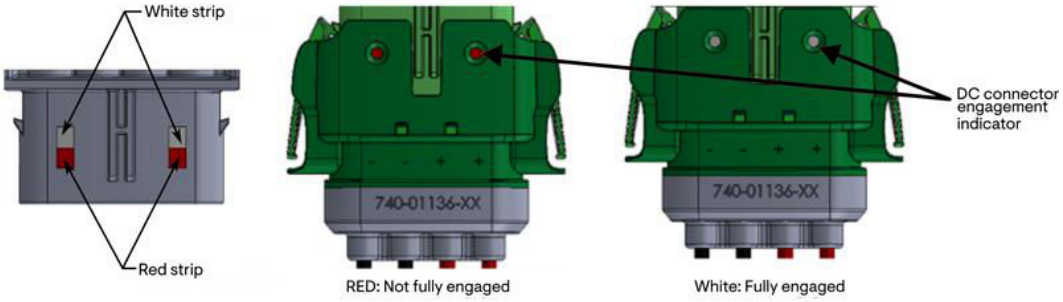
11.2 Connecting battery DC connectors

Each 5 kWh battery unit has one DC connector on each side. In total, four DC connectors are present in each IQ Battery 10C. Connect all four DC connectors.

WARNING: Risk of equipment damage. Carefully cut the cable tie used for tying the battery DC connector without damaging any cables or cable ties used for the serial number label before connecting them.



NOTE: Ensure the latches are latched properly, check the indicators for confirmation.

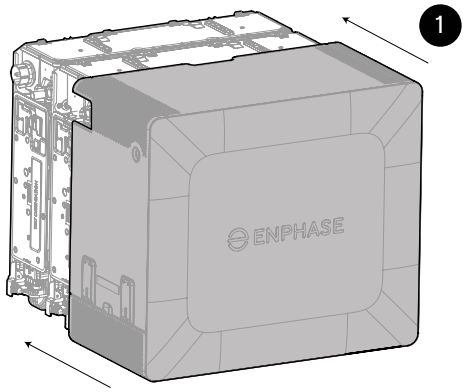


11.3 Attaching the cover assembly

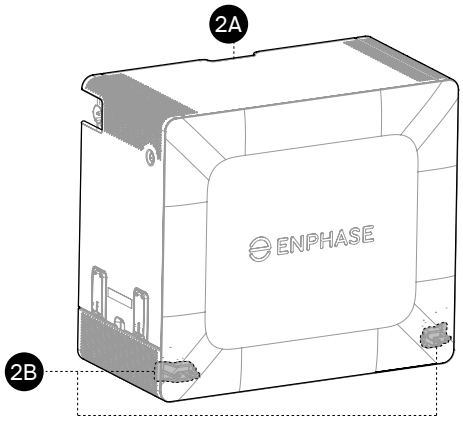
NOTE:

- Ensure that all four DC connectors are properly connected to the microinverters and that both control switch connectors are securely latched into the control switch connector holder on the two mounting brackets.
- Ensure that the DC and control switch cable harnesses are not in the way when sliding the cover over the units.

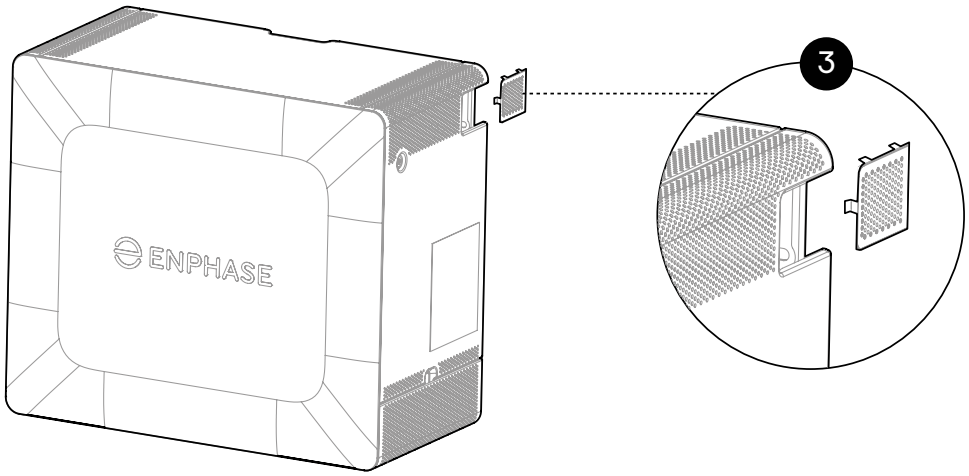
1. Slide the IQ Battery 10C cover over the battery units.



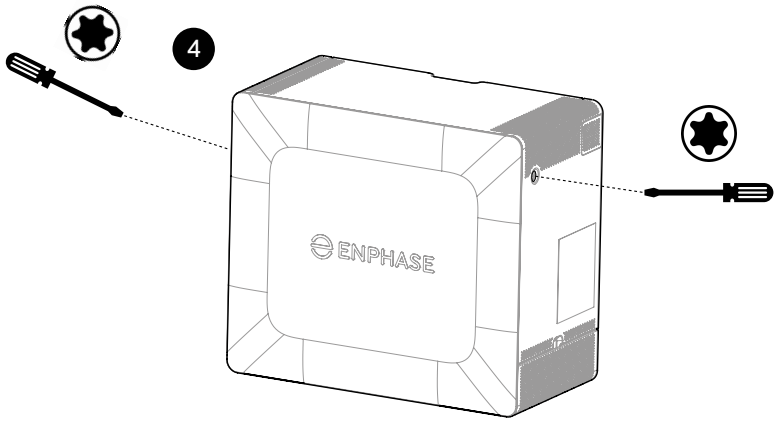
2. Move the cover over the latch at the top center and at the bottom on both sides.



3. Snap fit the conduit plate on the unused opening of the IQ Battery 10C cover.



4. Fasten the cover locking screws using a screwdriver (Torx 25, torque to 53.1 in-lb or 6 N m) to lock the cover in place.

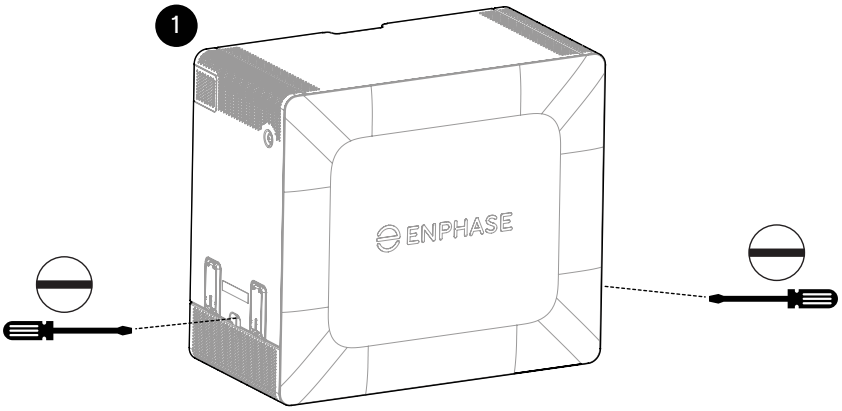


11.4 Connecting the control switch and energizing the unit

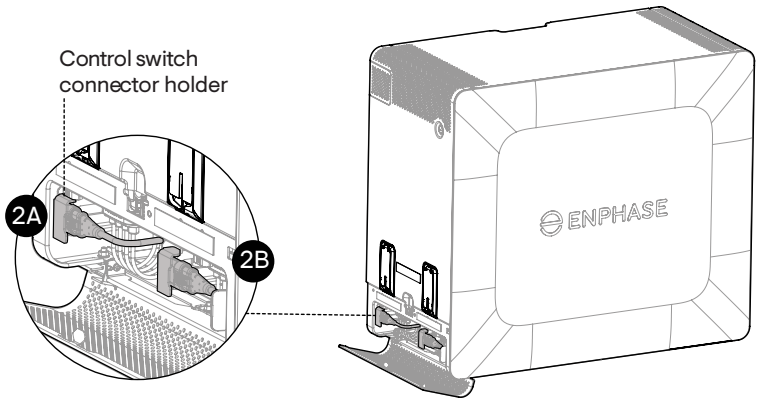
NOTE:

- Each IQ Battery 10C has two control switches. One each for the two 5 kWh battery units inside the IQ Battery 10C.
- After connecting the control switch, do not leave the battery ON for long periods without AC power connected to avoid draining the battery and damaging it.

1. Open the bottom left side flap of the cover by pulling it with your finger/slot screwdriver using the access slot provided at the center.

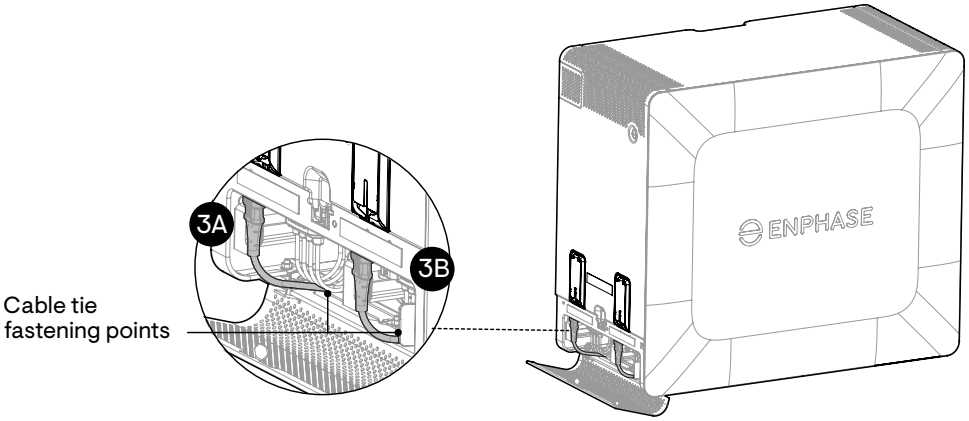


2. Disconnect the control switch connectors from the control switch connector holder on the mounting brackets.



3. Connect the two control switch connectors to the control switch slots located at the back of the cover and fasten cable ties to secure the control switch cables to the provision provided on the cover.

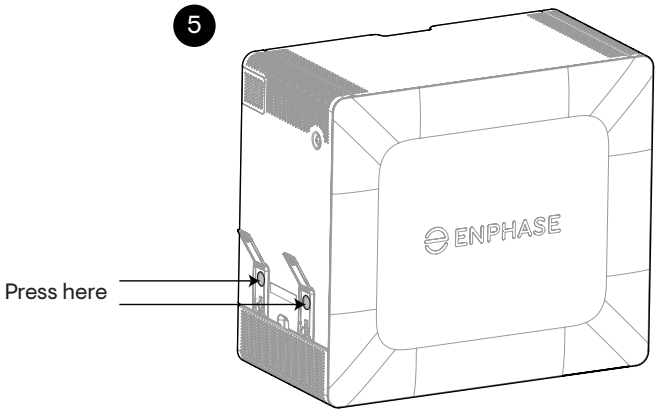
NOTE: Mounting points for securing the control cable with the help of the cable tie were introduced in later versions of the IQ Battery 10C cover. If your unit lacks these mounting provisions, you may skip the cable tie fastening step.



4. Close the flap and confirm that it is properly latched.
5. Press both control switches to turn on the IQ Battery 10C unit.

   To power ON the IQ Battery 10C units, press and hold the DC switch for 5 seconds. The LED will briefly light up green for approximately 1 second, followed by red to indicate the system is booting. After a few seconds, the LED will change to reflect the battery status:

   - Red (solid): No AC power detected or IQ8BN is not present after the power-on sequence.
   - Blue (solid) or green (solid): Depending on the State of Charge.



12. De-energizing the unit and removing the cover

This section provides step-by-step instructions for de-energizing the IQ Battery 10C unit and safely removing its cover. These procedures are intended for maintenance or troubleshooting purposes and are not part of the standard installation process. It is crucial to ensure the unit is completely de-energized, with all AC breakers and control switches turned off, before proceeding. Follow the instructions carefully to avoid damage to the unit and ensure safety during the process.

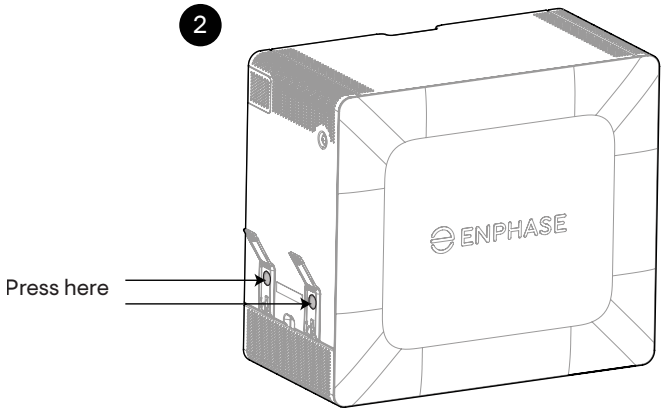
12.1 Disconnecting IQ Battery 10C control switch and de-energizing the unit

NOTE:

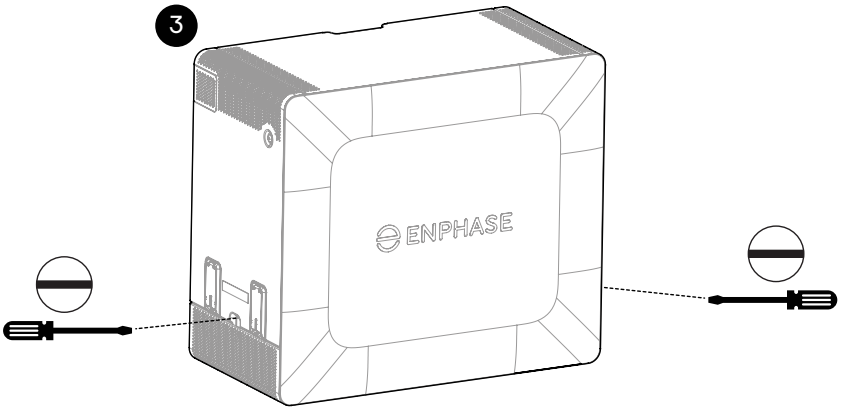
- These steps are not part of the installation. Refer to these instructions only when battery cover removal is required.
- The AC breaker to which IQ Battery 10C is connected must be off before disconnecting the control switch connector.
- When de-energized (the AC breaker to which the battery is connected and the DC control switch is turned off), the LED of the IQ Battery 10C must be off.

1. Turn off the AC breaker connected to IQ Battery(ies).
2. Turn off both the control switches on each unit to de-energize the IQ Battery(ies). Ensure that the LEDs on both units are turned off.

NOTE: To power OFF the IQ Battery 10C unit, press and hold the DC switch for 5 seconds. The LED will begin flashing red in a sequence of three flashes, continuing for a few seconds. After this, the LED will turn off, indicating the unit has shut down.

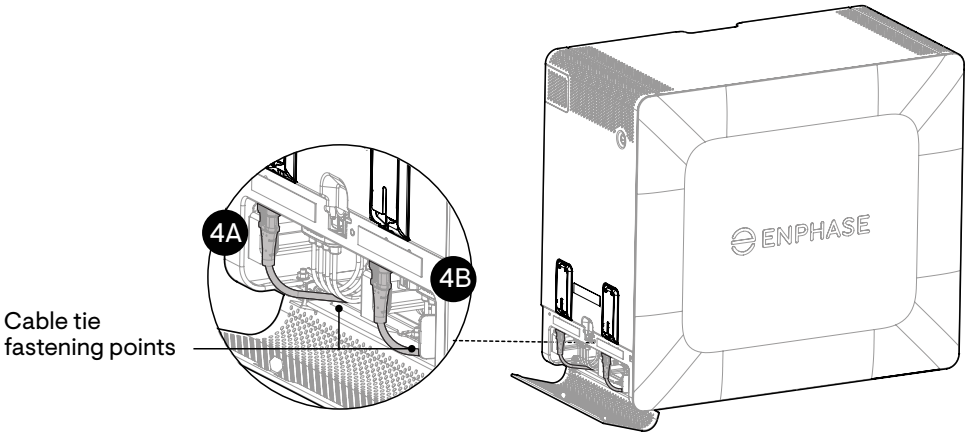


3. Pull out the left bottom flap on the cover with your finger/slot screwdriver by accessing the slot provided between the control switches.

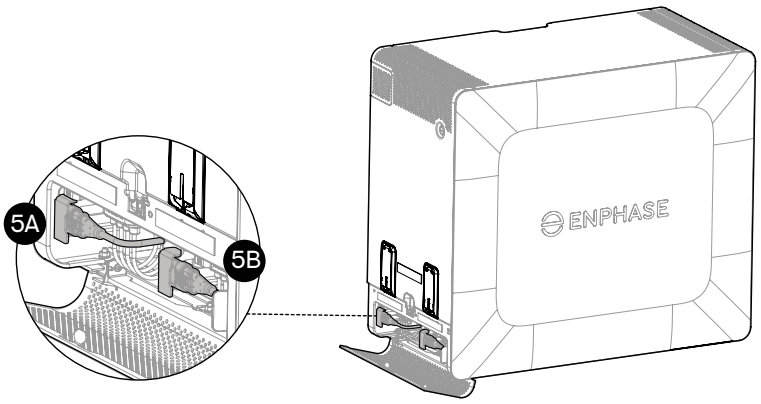


4. Disconnect the control switch connectors from both batteries and cut the cable ties to free the control switch cables from the cover.

NOTE: Mounting points for securing the control cable with the help of the cable tie were introduced in later versions of the IQ Battery 10C cover. If your unit lacks these mounting provisions, you may skip the cable tie fastening step.



5. Connect the control switch connectors on the respective connector holders available on the mounting brackets.

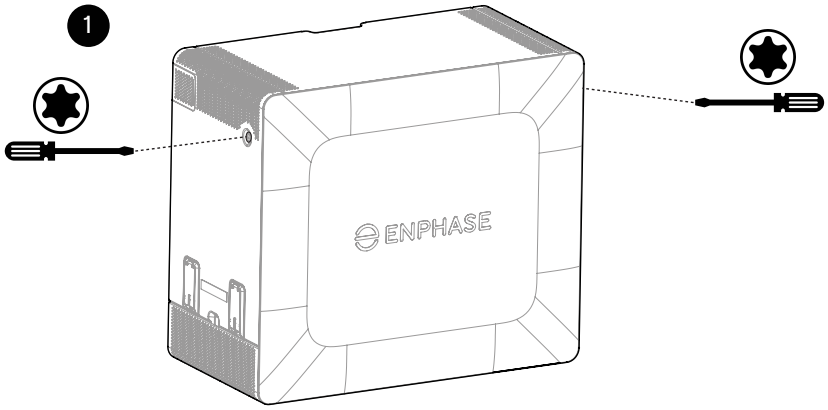


12.2 Removing the IQ Battery 10C cover

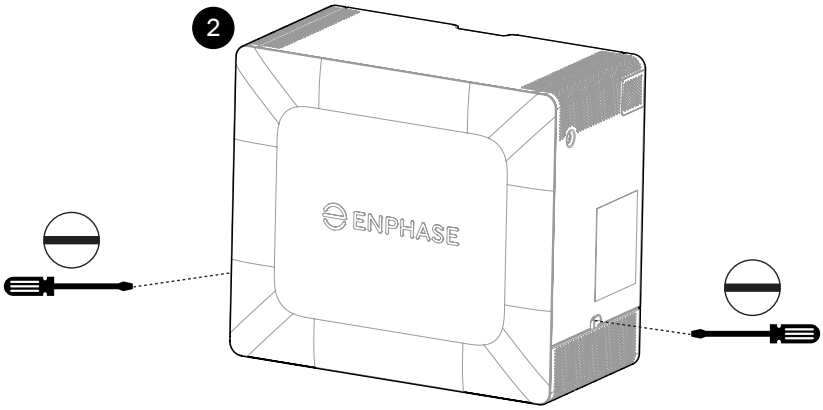
NOTE:

- These steps are not part of the installation. Refer to these instructions only when battery cover removal is required.
- IQ Battery 10C must be de-energized before removing the cover.
- The control switch connector must be disconnected before removing the cover.
- When de-energized (the AC breaker to which the battery is connected and the DC control switch are turned off), the LED of the IQ Battery 10C will be off.

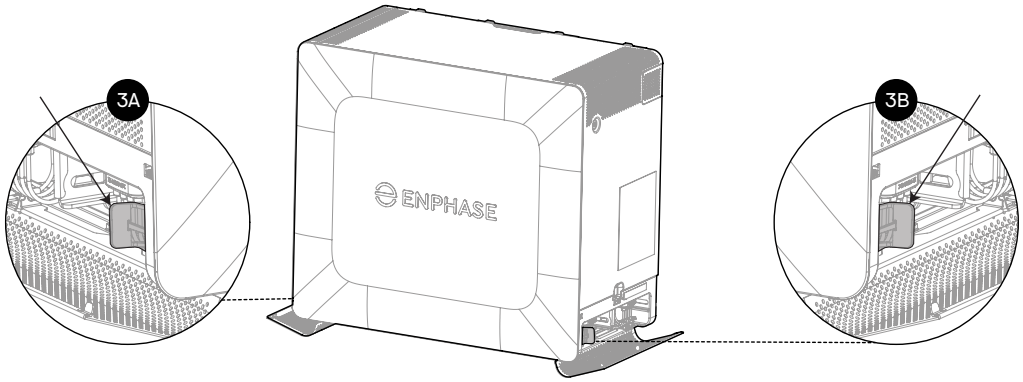
1. Unscrew the cover locking screws (Torx 25) present on both sides. Stop unscrewing once the screw begins to rotate freely, carefully remove it and keep it aside.



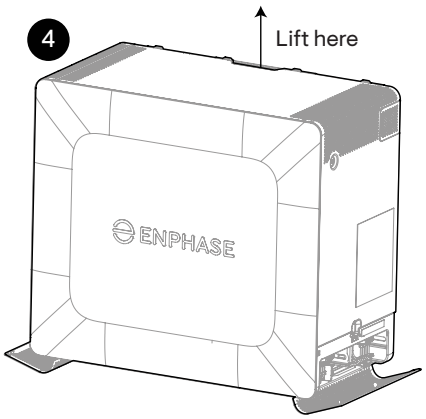
2. Pull out the bottom side flaps with your finger/slot screwdriver by accessing the slot provided above the flaps.



3. Pull the cover bottom snaps (towards the user) (highlighted) on both sides to release the cover.

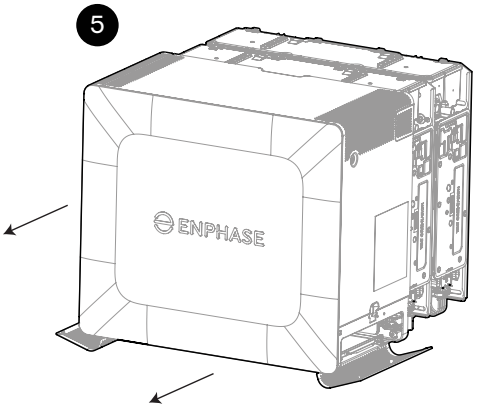


4. Using the hand access, lift and tilt the cover slightly as shown to release the lock.



NOTE: Ensure the cover is slightly inclined from the top after step 4.

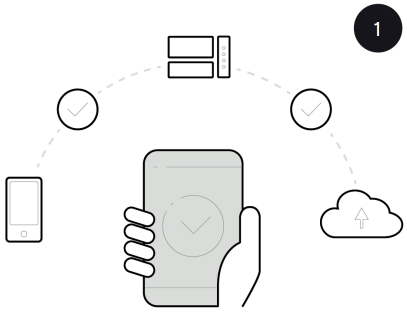
5. Pull the cover off in the indicated direction and carefully keep it aside without damaging the open flaps.



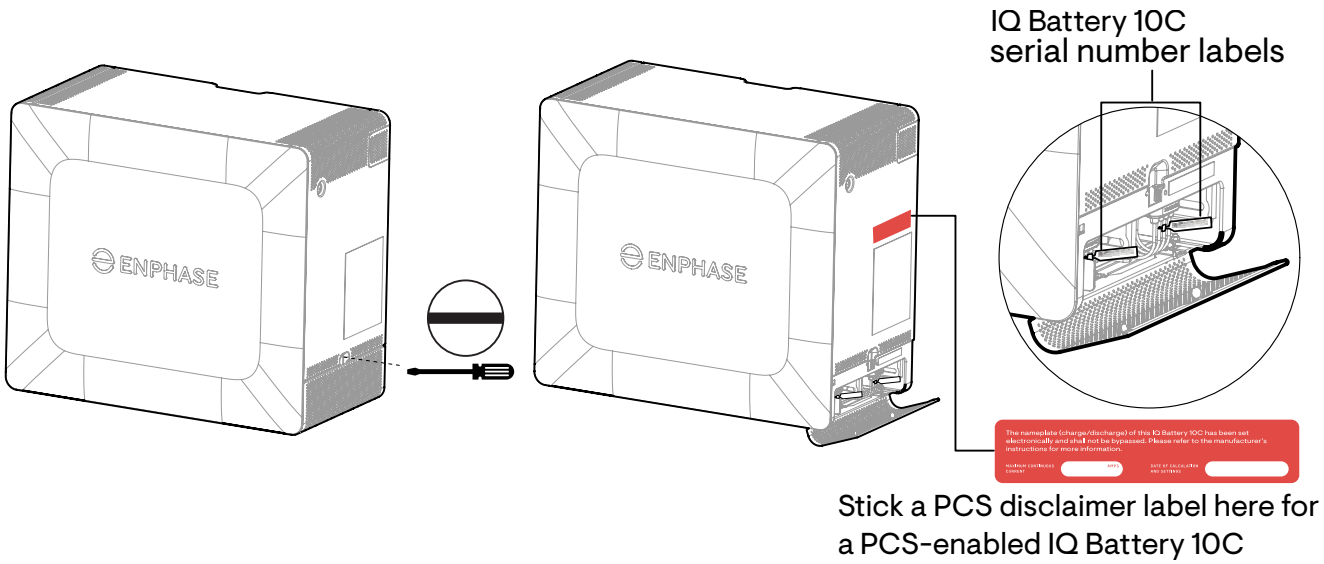
13. Operation

13.1 Configuring and activating the unit

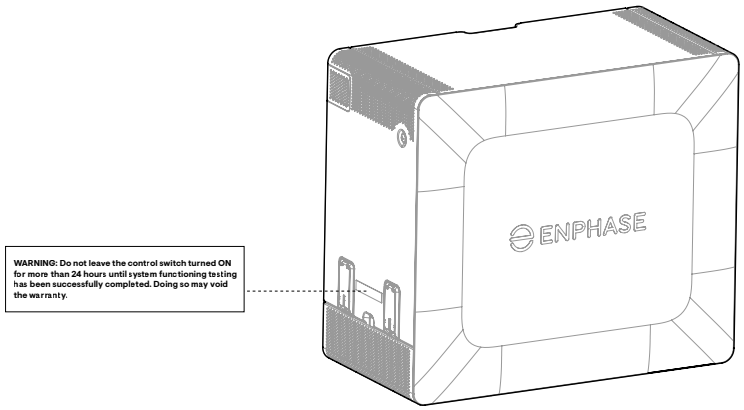
1. Use the Enphase Installer App to commission the IQ Battery(ies). Once connected to the IQ Gateway, refer to the Enphase Installer App help topics for more information.



Each 5 kWh unit of IQ Battery 10C is provided with two sets of serial number labels. One set of serial number labels is pasted on a cable tie attached to the bottom right corner DC connector cable, and another as a peel-off label pasted on the wiring compartment side, as shown in step 11 of Mounting battery units on the wall on page 19.



2. Peel off the warning label after the functional test is complete.



After the IQ Gateway has detected the IQ Battery(ies), the IQ Battery 10C LEDs operate as described in the following section.

13.2 LED overview

The IQ Battery features a set of intuitive LED indicators that provide real-time feedback on system status, operation mode, and error conditions. Understanding these LED signals is essential for efficient installation, system monitoring, and troubleshooting. This section outlines the meaning of each LED pattern to support a smooth installation process and ensure reliable system performance.

To power on the IQ Battery 10C, press and hold the DC control switches of each 5 kWh battery unit of IQ Battery 10C for 5 seconds. Depending on the battery firmware, the LEDs will indicate the following.

	FW 4.5.35	>FW 4.5.35
1	Blinking green: 2–3 seconds after pressing the Control Switch	Blinking green: 2–3 seconds after pressing the Control Switch
2	Blinking red: 8–9 seconds after pressing Control Switch	Blinking red: 8–9 seconds after pressing Control Switch

	FW 4.5.35	>FW 4.5.35
3	Solid blue or bluish green or greenish blue or green depending on SoC: 14–15 seconds after pressing Control Switch	Solid blue or bluish green or Greenish blue or green depending on SoC: 14–15 seconds after pressing the Control Switch if power-on sequence is successful OR **Solid Red:** 14–15 seconds after pressing Control Switch if IQ8BN is NOT present after power-on sequence OR AC NOT present

To power off the IQ Battery 10C unit, press and hold the DC switches of each 5 kWh battery units of IQ Battery 10C for 5 seconds. Depending on the battery firmware, the LEDs will indicate following.

	FW 4.5.35	>FW 4.5.35
1	Blinking red (triple flash): 2–3 seconds after pressing the Control Switch	Blinking Red (triple flash): 2–3 seconds after pressing the Control Switch
2	Blinking red (triple flash): 40 seconds after pressing Control Switch	Blinking Red (triple flash): 15 seconds after pressing Control Switch
3	OFF: Indicating that the battery is off	OFF: Indicating that the battery is off

When the battery reaches very low SoC (VLS) or extremely low SoC (ELS) levels, it will automatically enter sleep mode, during which:

- The LED indicator turns off.
- The battery becomes inactive to conserve power.

Control Switch operation:

- First press: Press and hold the control switch for 5 seconds to turn off the battery
- Second press (to wake the battery):
  - In VLS mode: Press and hold the control switch for 5 seconds to turn on the battery.
  - In ELS mode: Press and hold the control switch for 10 seconds to turn on the battery.

To make the IQ Battery 10C form grid in extremely low State of Charge (ELS mode, less than 2% SoC), press and hold the DC control switches of each 5 kWh battery units of IQ Battery 10C for 10 seconds.

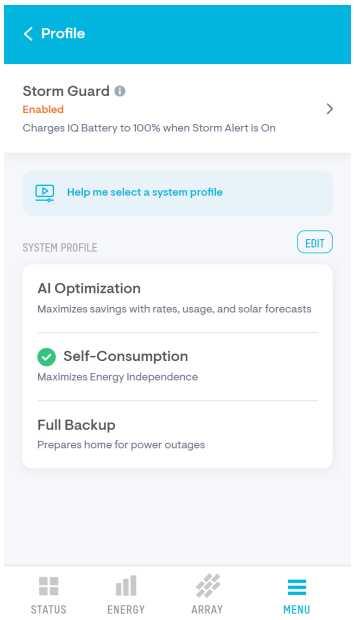
1	Blinking green: 2–3 seconds after pressing the Control Switch
2	Blinking red: 8–9 seconds after pressing Control Switch
3	Solid blue: 14–15 seconds after pressing Control Switch
4	Blue soft pulse: 6 minutes after pressing Control Switch indicating it is discharging

	FW 4.5.35	>FW 4.5.35
Error Needs Service (BMU L2 Errors)	Red double flash	Red solid
BMU L1 Error or AC Source Off	Red Soft Pulse	Red solid
Upgrade Fail	Red single flash	Red solid
ESS Shutdown	Red one-second flash	Red solid
Intermittent state during Turn OFF sequence	Flashing red	Flashing red
Not operating due to high temperature	Yellow solid. See Troubleshooting on page 40.	
No communication with the IQ Gateway	Yellow flashing	
Charging	Green soft pulse	
Discharging	Blue soft pulse	
Idle	Solid blue: SoC<25%	
	Greenish blue (BLUE—75%, GREEN—25%): SoC 25 to 50%	
	Bluish green (GREEN—75%, BLUE—25%): SoC 50 to 75%	
	Green: SoC>75%	

13.3 Operating mode and set points

IQ Battery 10C supports multiple storage interactive system modes based on usage.

1. Using the Enphase App, select **Menu** > **Settings** > **Profile**
2. Select one of the three modes:
   - **Self-Consumption** mode (default, no setting change required)
   - **AI Optimization**
   - **Full Backup**



For more information on operation modes, refer to the storage system owner's guide at https://enphase.com/en-us.

13.4 Troubleshooting

If the IQ Battery(ies) are not operating correctly, follow these troubleshooting steps. If the issue persists, contact Enphase at

https://enphase.com/contact/support

1. If the IQ Battery(ies) do not operate, check the temperature in the room and increase cooling and/or ventilation as required. Check that the sides of IQ Battery 10C have at least 4" (10.2 cm) clearance on the left, right, top, and bottom.
2. If the IQ Battery 10C LED is red (solid), turn off the AC breaker to which IQ Battery 10C is connected on the branch circuit, wait for at least one minute, and turn it back on. Ensure the AC supply is available on the battery terminals.

NOTE: IQ Battery 10C has multiple field-replaceable parts. These must be replaced by trained service personnel. Contact Enphase Support before replacing any part.

NOTE: For grid-tied batteries during a brownout or blackout, IQ Battery 10C powers down automatically. This is normal. When power is restored, it automatically starts again.

3. If you do not see IQ Battery 10C information in the Enphase App, check that the IQ Gateway and the internet connection are working.
4. If the issue persists, contact Enphase Support at https://enphase.com/contact/support.

Revision history

Revision	Date	Description
140-00379-04	June 2025	Updated multiple sections of the document.
140-00379-03	April 2025	Updated the "Wiring" section.
140-00379-02	January 2025	Updated the "Wiring the control (CTRL) cable between system components" section.
140-00379-01	November 2024	Initial release.

Enphase Support: https://enphase.com/contact/support.

Installer notes

⚠ **IMPORTANT:** Paste peel-off serial numbers labels of all 5 kWh units of IQ Battery 10C here. This will be helpful during commissioning activity.

Battery units	Batteries connected on IQ Battery 1 breaker in IQ Combiner 6C	Batteries connected on IQ Battery 2 breaker in IQ Combiner 6C
IQ Battery 10C unit	<Paste wall-side 5 kWh unit serial number> <Paste user-side 5 kWh unit serial number>	<Paste wall-side 5 kWh unit serial number> <Paste user-side 5 kWh unit serial number>
IQ Battery 10C unit	<Paste wall-side 5 kWh unit serial number> <Paste user-side 5 kWh unit serial number>	<Paste wall-side 5 kWh unit serial number> <Paste user-side 5 kWh unit serial number>
IQ Battery 10C unit	<Paste wall-side 5 kWh unit serial number> <Paste user-side 5 kWh unit serial number>	<Paste wall-side 5 kWh unit serial number> <Paste user-side 5 kWh unit serial number>
IQ Battery 10C unit	<Paste wall-side 5 kWh unit serial number> <Paste user-side 5 kWh unit serial number>	<Paste wall-side 5 kWh unit serial number> <Paste user-side 5 kWh unit serial number>

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Applicable regions: North America

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