

IQ Battery 5P

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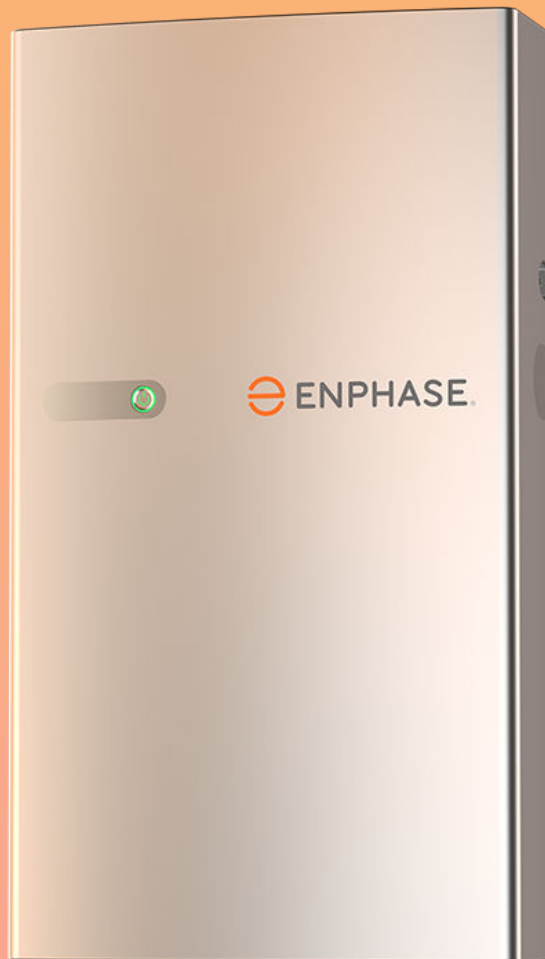


IQBATTERY-5P-1P-INT
IQBATTERY-10Z-1P-INT

VERSION 6.0
APRIL 2026



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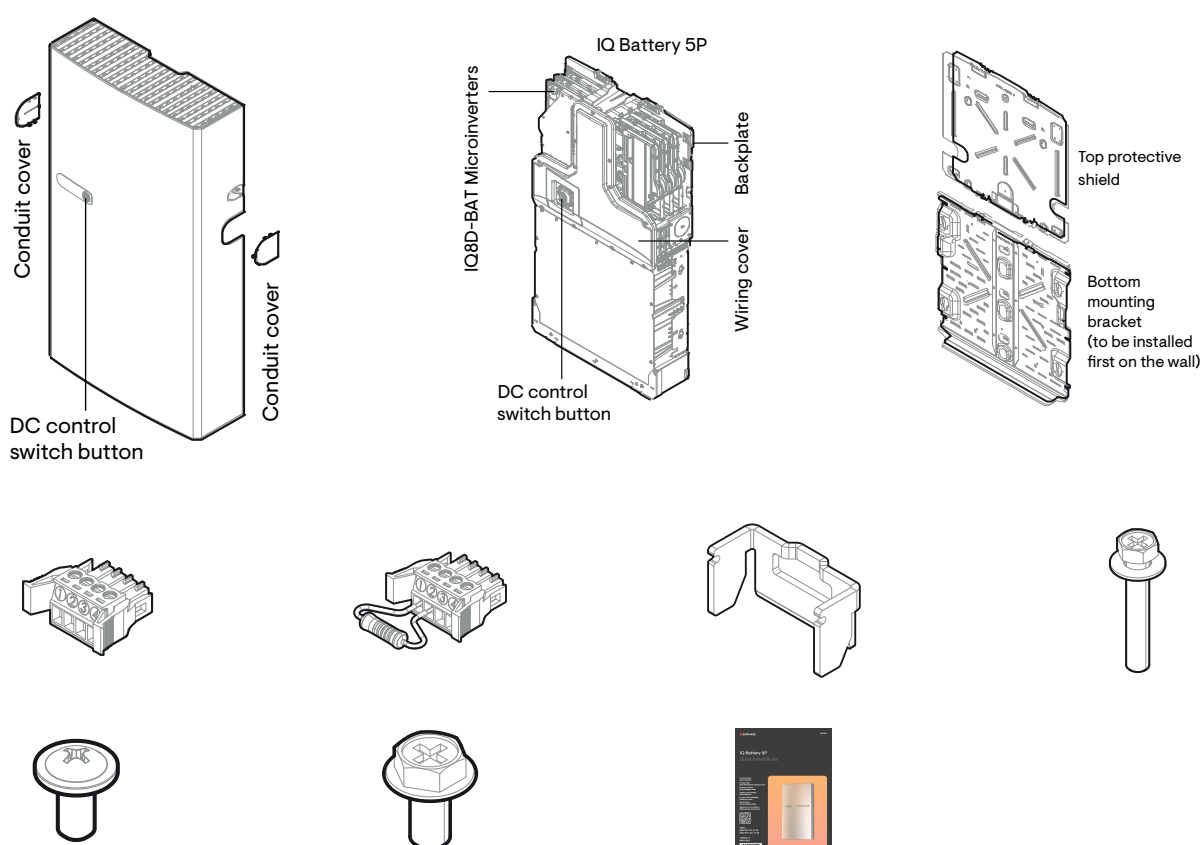
1. Overview

To install the Enphase IQ Battery 5P, the top protective shield and the bottom mounting bracket, read and follow all warnings and instructions in this guide. Safety warnings are listed at the end 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 IQ Battery 5P.

The IQ Battery 5P system includes the battery cell pack with integrated IQ Microinverters and battery management system (BMS). For grid-tied operation, the system requires IQ Gateway Metered and Communications Kit 2. For backup operation, the system requires IQ System Controller.

The IQ Gateway Metered measures PV production, IQ Battery 5P 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.

2. What's in the box



Description	Model number	Quantity
IQ Battery 5P	B05-T02-INT00-1-2	1
ID cover, two conduit covers	B05-CX-0550-O	1
Bottom mounting bracket and top protective shield	B05-WB-0543-O	1
M5 Locking screw	—	2
M4 Grounding screw	—	2
M5 ID cover grounding screw	—	2
Quick install guide (QIG)	—	1
Anchor Clip	—	2
Wall drill template	—	2
Cable ties	—	6
Control (CTRL) connector (one spare, one pre-installed)	—	2

Description	Model number	Quantity
Control (CTRL) connector with resistor (one spare, one pre-installed)	—	2

3. Product compatibility/additional items required

S. No	Item name	Quantity	Source
1	Conduit up to 32 mm for side entry and up to 19 mm for rear entry	As required	Installer
2	Conduit fittings or cable glands and tools must be IP55-rated when installing outdoors	As required	Installer
3	Drill	1	Installer
4	4 mm pilot bit	1	Installer
5	Screwdriver	1	Installer
6	Wrench	1	Installer
7	Socket wrench	1	Installer
8	Torque wrench	1	Installer
9	Level	1	Installer
10	Conductor stripper	1	Installer
11	Stud finder (if required)	1	Installer
12	Copper conductors - 6 mm ² to 25 mm ² (rated at 90°C)	As required	Installer
13	Control cable	As required	Enphase distributor/Installer
14	Personal protective equipment for handling lithium batteries as required by local safety standards	As required	Installer
15	Protective equipment according to local safety standards	As required	Installer
16	M8 lag bolts or screws to install the bottom mounting bracket. Slots are 9.2 mm for the wall mount and 11.2 mm (inclined slots) for the pedestal. Check with a structural engineer and local standards for requirements	Single stud mounting (Min. 3) Dual stud mounting (Min. 4)	Installer
17	M6 screws to fasten the top protective shield on the wall. Use standard screws only (head thickness <5 mm)	Single stud mounting (Min. 6) Dual stud mounting (Min. 6)	Installer
18	Washers	As required	Installer
19	IQ Battery 5P lifting handles. Includes one left-side and one right-side lifting handle (SKU: IQBATTERY-HNDL-5)	1	Enphase distributor/Installer



NOTE: The Enphase IQ Battery 5P system requires an internet connection through the IQ Gateway Metered. Failure to maintain an internet connection may have an impact on the warranty. See <https://enphase.com/installers/resources/warranty> for full terms.

For grid-tied operation, the IQ Battery 5P is connected to the IQ Gateway Metered via Communications Kit 2 and communicates using wired control cables. IQ Relay should be installed as required by local regulations.

For backup operation, the IQ Battery 5P is connected to the IQ System Controller using wired control cables.

The battery is tested and certified to operate only with suitable control cables. Scan the QR code/use the below link to find details on the tested and supported control cable for your country.



<https://link.enphase.com/control-cable-table-eu>

 **NOTE:** The rated energy capacity of the battery is 5.0 kWh.

The following table lists the product compatibility matrix.

Product	IQ Battery 5P – grid-tied	IQ Battery 5P – backup
IQ7	Yes	Yes
IQ8	Yes	Yes
String inverter	Yes	No
String + IQ7/IQ8/M Series	No	No
M Series	No*	No
IQ7 + M Series	No ¹	No
IQ7 + IQ8	No ²	No
AC Battery	No	No

4. Planning considerations for South Africa

For installations in South Africa, at least one IQ Battery 10Z is a MUST requirement for system activation and operations.

IQ Battery 10Z (SKU: IQBATTERY-10Z-1P-INT) includes two 5 kWh IQ Battery 5P base units with two ID covers, two bottom mounting brackets, and two top shields. Any site must have at least one IQ Battery 10Z.

To increase installed capacity, 5 kWh IQ Battery 5P expansion unit or another IQ Battery 10Z can be installed after one IQ Battery 10Z installation.

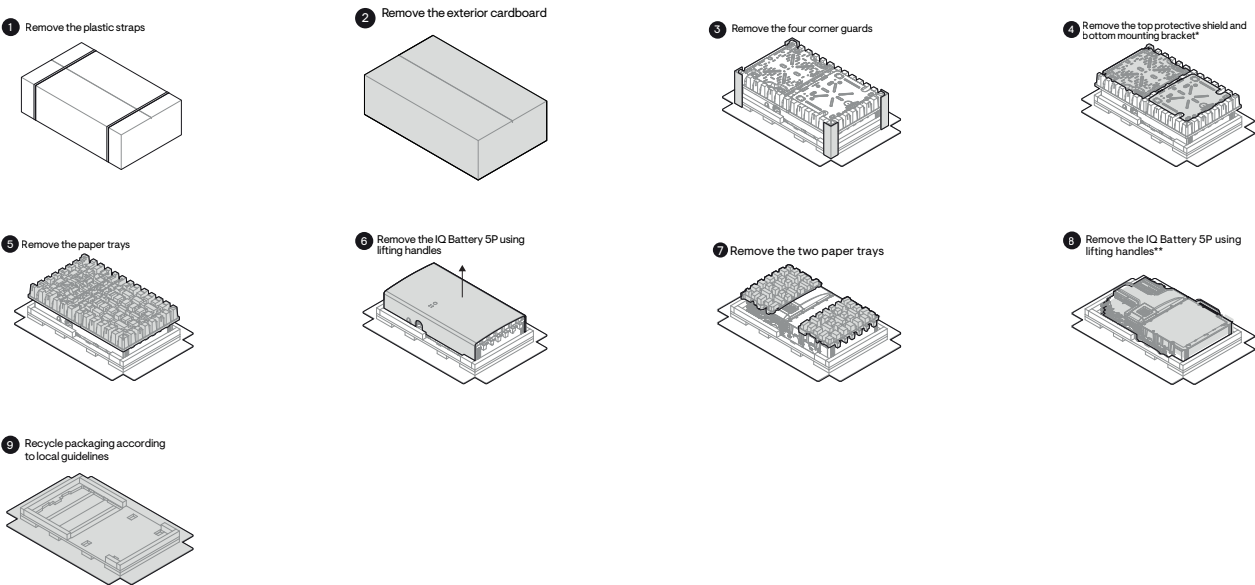
 **NOTE:** IQ Battery 5P is an expansion unit over IQ Battery 10Z in South Africa.

5. Unboxing IQ Battery 5P

Before you unbox IQ Battery 5P, check the “Energize By” label on the shipping box to verify that the IQ Battery(ies) will be installed by the date shown. If the date has passed, contact your distributor for next steps.

Remove the upper packaging cover and follow the steps, as shown in the following images.

 **WARNING:** Do not lift the IQ Battery 5P using microinverters or the plastic behind the microinverters. This may damage the unit permanently. Always use handles to lift the IQ Battery 5P.



¹ The IQ Battery 5P must be installed on a separate gateway.
² The IQ Battery 5P can be installed on a gateway either with the IQ7 or IQ8.

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 the battery is damaged, contact your distributor for a replacement.

 **WARNING:** Risk of injury and equipment damage. The total lifting weight, with handles attached, is 67.35 kg. Handles must be used while lifting the battery. Two-person manual lifting is allowed only if permitted by local laws. Otherwise, use mechanical lifting.

 **WARNING:** Do not lift the packaging with the battery inside after the plastic straps are cut.

6. Mounting the product

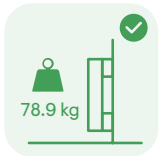
6.1 Plan a location for the IQ Batteries



The IQ Battery 5P housing is IP55-rated and can be installed indoors or outdoors.

L/N terminal blocks can accommodate copper conductors ranging from 1.5 mm² to 25 mm² in size. The installer must size cables appropriately based on local regulations and site conditions.

Field Earth terminal blocks accept copper conductors of size 0.5 mm² to 6 mm².

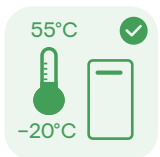


Make sure the installed location can sustain the total weight of the IQ Batteries and mounting bracket. The total weight for IQ Battery 5P, including the IQ Battery 5P unit, cover, and wall-mount bracket, is 78.9 kg. The wall must contain blocked studs that can bear the battery weight or can be of masonry or other suitable structure.

Make sure there are no pipes or electrical wires in the wall where you plan to drill.



Follow local standards, choose an indoor location or an outdoor location where the ambient temperature and humidity are within -20°C to 55°C and 5% to 95% RH, non-condensing. Performance when installed in direct sunlight may not be optimal. However, batteries can be safely mounted in direct sunlight. Batteries are equipped with a safety feature that limits the power level while charging and discharging automatically to maintain safe operating temperature. The optimum ambient temperature range for installation location is 0°C to 30°C.



Installing in a location where the IQ Battery 5P is subject to higher or lower temperatures will result in reduced battery performance:

- Charging at rated power happens between -20°C and 50°C. The charging continues below 15°C and above 45°C, but at reduced power.
- Discharging at rated power happens between -20°C and 55°C. The discharging continues below 5°C and above 50°C, but at reduced power.

Consider the dimensions of the IQ Batteries, easy access, height, and length of cable when selecting the location.



WARNING: IQ Battery 5P devices should NOT be installed on a flammable surface. When installing on a wooden wall, it is suggested to use a flame-retardant board between the wooden wall and IQ Battery 5P devices should NOT be installed on a flammable surface. When installing on a wooden wall, it is suggested to use a flame-retardant board between the wooden wall and IQ Battery 5P. Consult the regional building regulations for any additional requirements. Provide smoke alarms in the residence if required by local standards or building, fire, and installation codes.



This product must not be installed at altitudes above 2500 m.

Follow all local standards and regulations set forth by the Distributed Network Service Provider or Operator (DNSP/DNO).



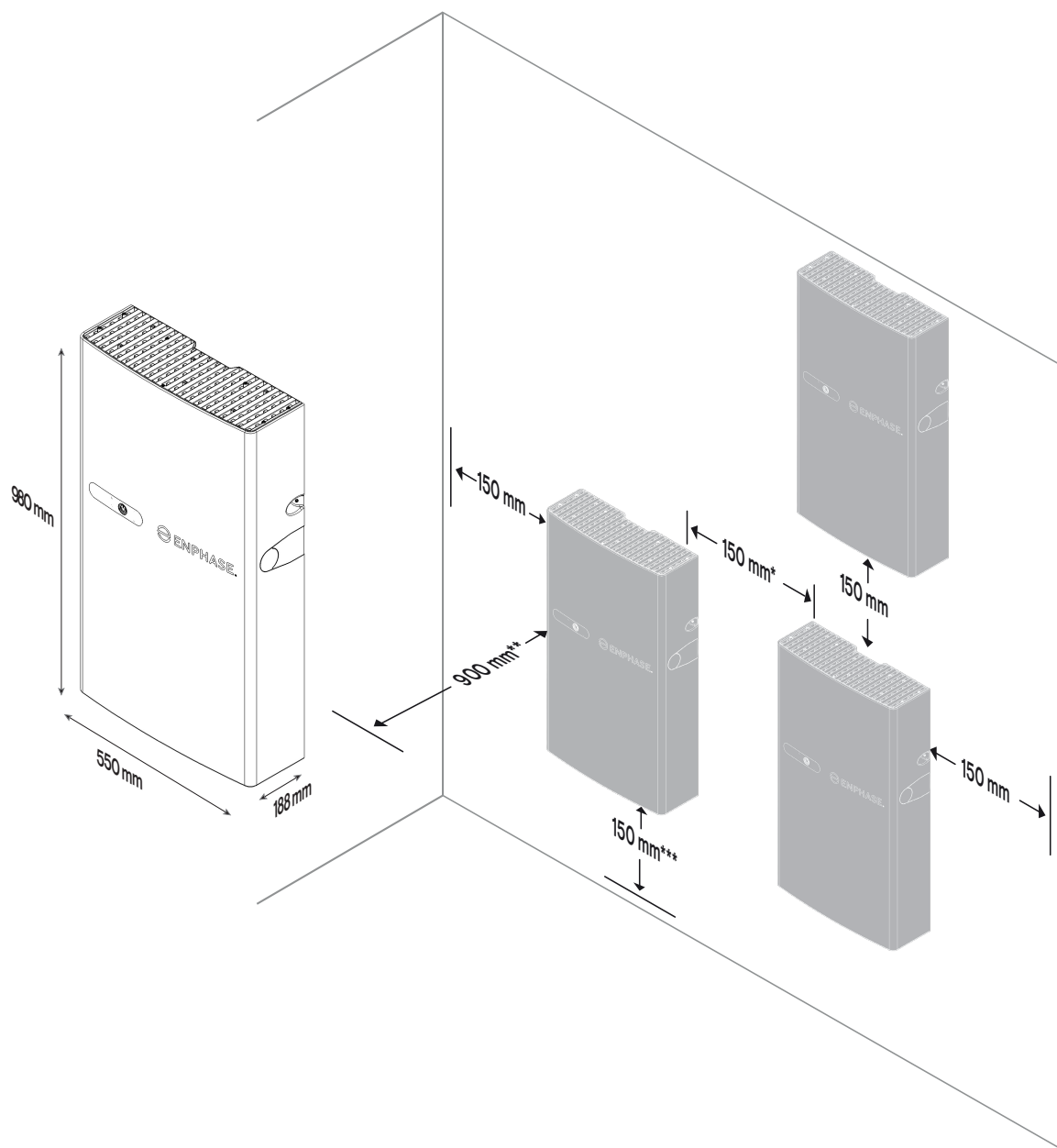
Up to four IQ Battery 5P units can be connected on a single branch circuit.

The maximum conductor size compatible with IQ Battery 5P is 25 mm², and the maximum circuit breaker rating with this conductor size is 80 A B curve. Use a 20 A B curve circuit breaker for one IQ Battery 5P and Max. 80 A B curve circuit breaker for four batteries on the same circuit.

Follow all local standards and regulations while selecting the AC circuit breaker.

6.2 Minimum clearance

The mounting instructions that follow are for the included wall-mount bracket only. If you wish to install IQ Battery 5P in a floor-mount configuration, order the pedestal accessory (Order code: B05-PM- 0550-O) and refer to the floor-mount instructions that come 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.



Keep IQ Battery 5P away from falling or moving objects, including motor vehicles.

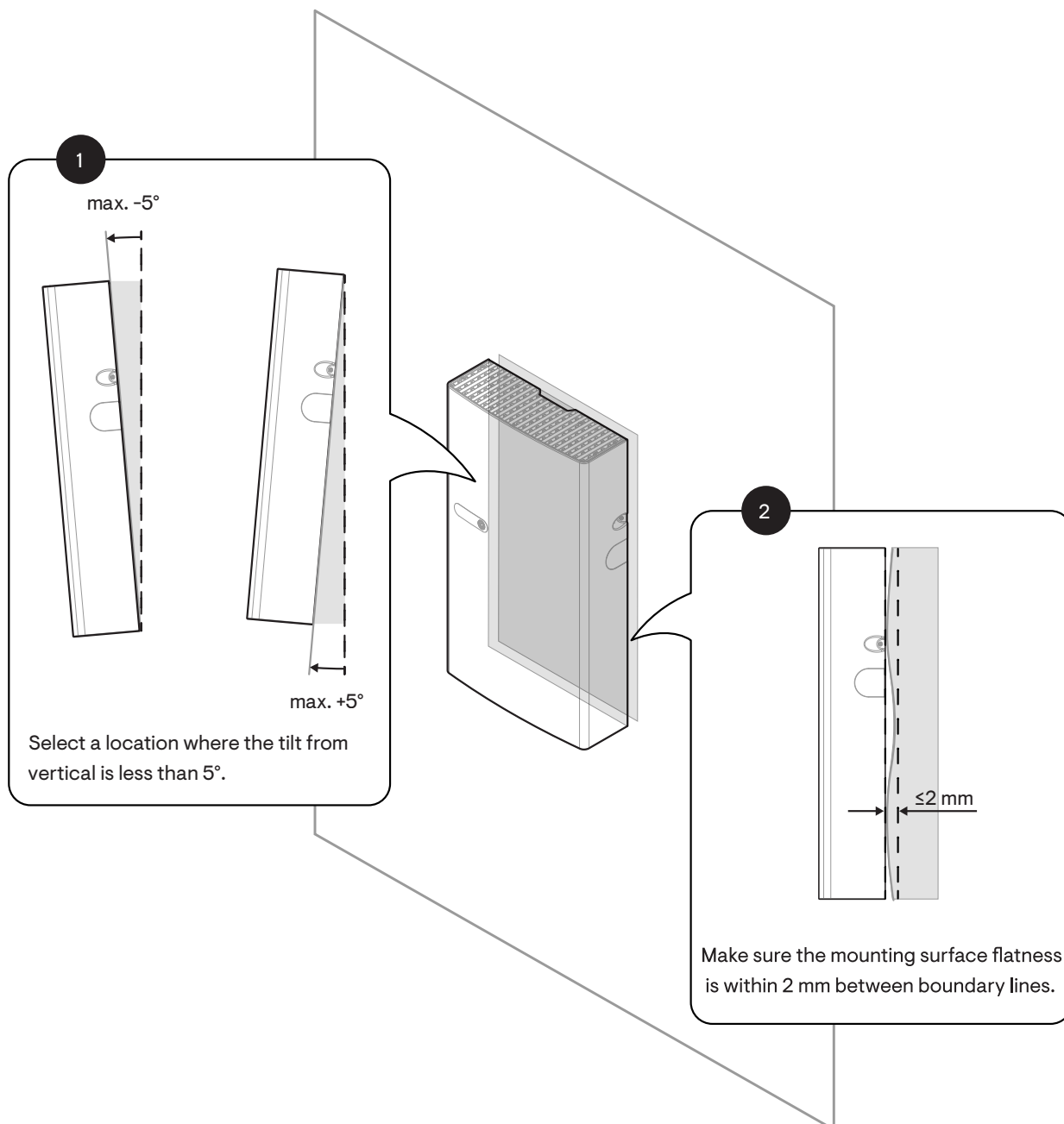
✓ **NOTE:** For IQ Batteries mounted side-by-side, the minimum distance between the covers of two units should be 76 mm. Installation handles cannot be used for clearance less than 150 mm, and installers need to consider adjusting the distance between batteries based on cable bending radius and local regulations.

✓ **NOTE:** The minimum clearance to be maintained in front of the batteries is 250 mm.

- ✓ **NOTE:** If mounted in the path of a motor vehicle, Enphase recommends a minimum mounting height of 900 mm above the floor.
- ✓ **NOTE:** The above instructions are for wall mounting of the battery. To floor mount the IQ Battery 5P, order the pedestal accessory (Order code: B05-PM-0550-O) and refer to the floor-mount instructions that come with that product.

6.3 Mounting surface

1. Select a location where the tilt from vertical is less than 5°.
2. Make sure the mounting surface flatness is within 2 mm between boundary lines.



- ✓ **NOTE:** If the variation of the flatness is more than 2 mm, the battery might not properly sit on the bottom mounting bracket through keyholes. Use spacers or unistruts if the variation is more than 2 mm.

6.4 Install the bottom mounting bracket and the top protective shield

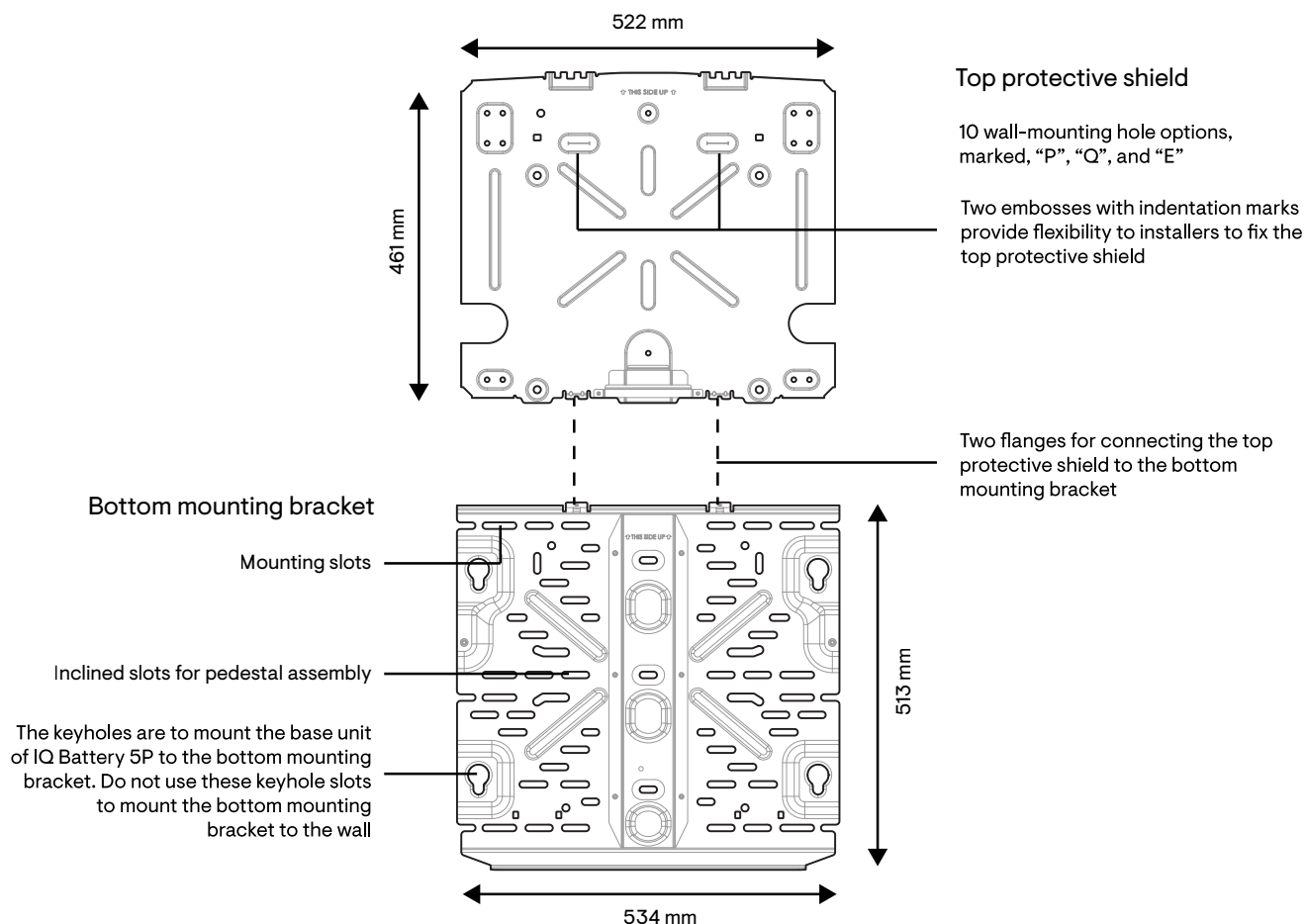
The bottom mounting bracket carries the weight of the IQ Battery 5P, and the top protective shield covers the back of the IQ Battery 5P.

WARNING: Risk of injury and equipment damage. Do not mount an IQ Battery 5P on a bracket that is not properly mounted.

Use a minimum of six M6 screws for mounting the top protective shield to the wall. Use standard screws only (head thickness <5 mm).

Use M8 screws/lag bolts (9.2 mm) with a washer (or masonry attachments for masonry wall) for each slot to attach the bottom mounting bracket.

Install the bottom mounting bracket as per the following instructions. Make sure the bottom mounting bracket is firmly attached to the wall.



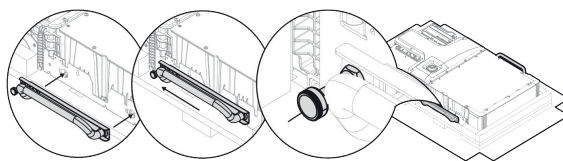
7. Installing IQ Battery 5P

7.1 Prepare to install IQ Battery 5P on the bottom mounting bracket

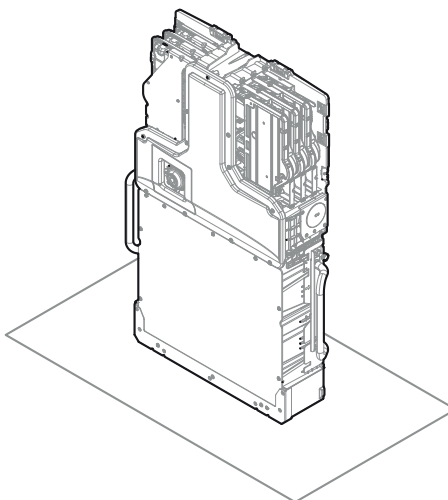


NOTE: Complete all the following steps before installing IQ Battery 5P on the wall.

1. Remove the ID cover from the packaging and keep it aside. Use the reusable lifting handles (sold separately) and check that the plungers on the handle are extended and ready to engage into the IQ Battery 5P slots.



2. Align the left handle on the left side of IQ Battery 5P, insert it into the slots and slide it toward the top of the IQ Battery 5P enclosure until the plunger locks into place. Check that the handle is secure.
3. Repeat on the other side with the right handle.
4. Two people together must lift the IQ Battery 5P unit from the packaging using the handles and place it in an upright position on the floor, taking support of the backplate or wiring cover.



WARNING: Risk of injury and equipment damage. The total lifting weight with handles attached is 67.35 kg; lift according to local law. Handles must be used while lifting the battery. Two-person manual lifting is allowed only if permitted by local law. Otherwise, use mechanical lifting.



WARNING: Do not lift the IQ Battery 5P using microinverters or the plastic behind the microinverters. This may damage the unit permanently.



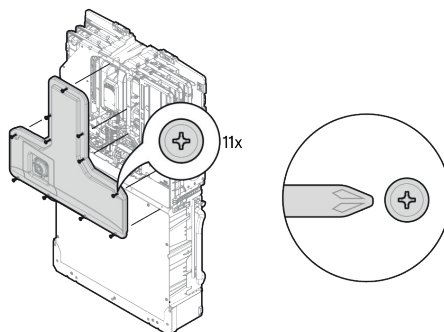
WARNING: Lift IQ Battery 5P from the packaging using the handles and make sure the battery's front side is facing towards you.

5. Open the front wiring cover by unfastening the 11 captive screws from the wiring cover. Use a screwdriver or an electric drive; do not use impact drives/impact drills.

Check the red caution label (refer page 32) on the unit for the specified torque value of captive screws.



NOTE: Remove the top screw at the last to avoid damage to the wiring cover.

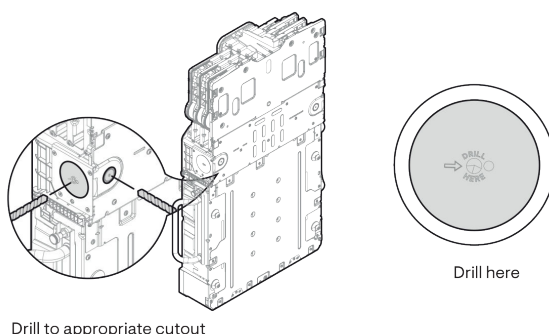


6. Drill the appropriate cutout on either the back or side of the unit or both based on configurations. The rear entry can support the conduit with a diameter of 13 mm to 19 mm, while the side entry can support the conduit with a diameter of 13 mm to 32 mm. L and N terminals can accept a maximum cable size of 25 mm². The Earth terminal can accept a maximum cable size of 6 mm².



DANGER: Risk of electric shock. The DC control switch must be OFF before performing this step.

Install cable glands on the sides where cable entry is planned before mounting the units on the wall.



Drill to appropriate cutout



NOTE: Before mounting the unit on the wall, drill the appropriate cutout. Drilling the cutouts after mounting the unit to the wall can lead to internal component damage, which is not covered by the warranty.



WARNING: Ensure that the drilling machine does not touch any internal components or walls.



WARNING: Clean the debris from inside the battery unit after drilling.



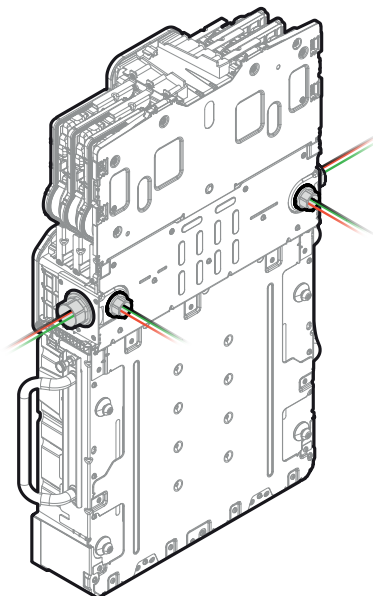
WARNING: Risk of equipment damage. For rear cable entry, wall drilling should be done before mounting the IQ Battery 5P on the wall.

7. IQ Battery 5P can have the field cable entry from the back, left, or right side. Finalize the side from where the field cable enters and leaves IQ Battery 5P. Use the following illustration to decide the cutout for all the units.

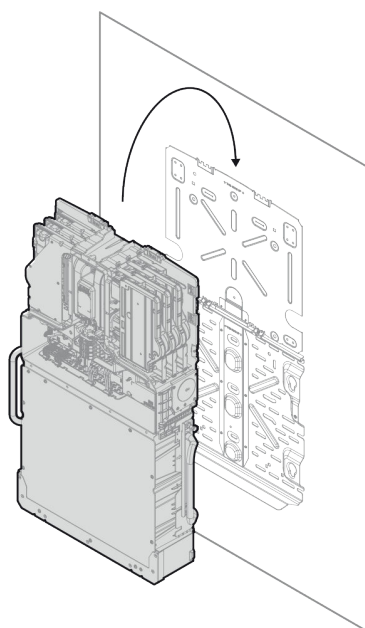
Opening on one side can either be used for only entry or exit of the cables. For example, if the cable is entering on the left side, then the cable outlet for the next IQ Battery 5P in the circuit should always be on the right side and vice-versa.



NOTE: The rear entry can support the conduit with a diameter of 13 mm to 19 mm, while the side entry can support a conduit with a diameter of 13 mm to 32 mm. Follow manufacturer-recommended instructions for conduit installation.



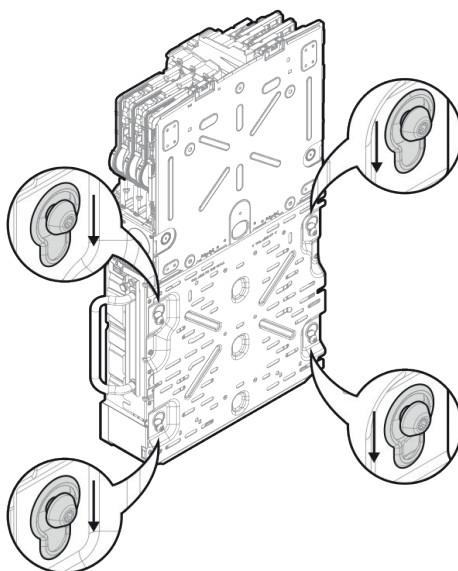
8. Bring the IQ Battery 5P unit to the already mounted bottom mounting bracket.



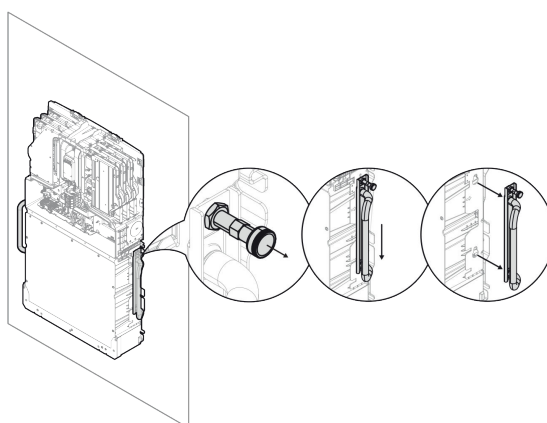
9. Hold IQ Battery 5P straight, align, and insert four mount bolts on the battery unit into the bottom mounting bracket keyholes and slide it down.



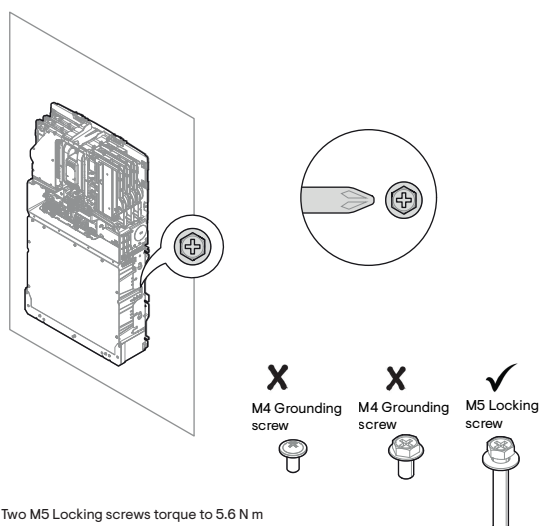
NOTE: Use lift assist to avoid any mishap during lifting.



10. To remove the installation handles, pull the plunger outward to unlock them. Then, slide the handle down and pull it away from the unit to remove it.

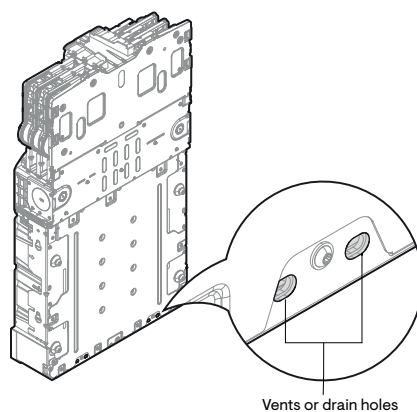


11. Secure the battery unit on the bottom mounting bracket using two M5 locking screws. This is required to comply with seismic requirements.



✓ **NOTE:** Use a screwdriver or electric drive; do not use impact drives or impact drills while tightening locking screws.

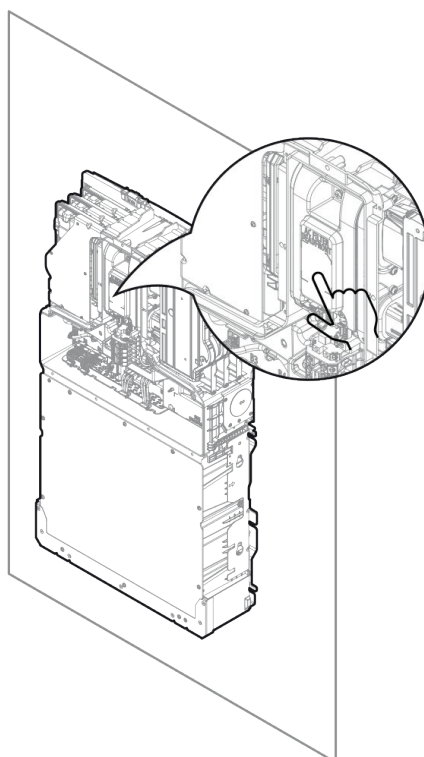
- ✓ **NOTE:** It is recommended to use a screwdriver extension bit to reach the screw head.
- ⚠ **WARNING:** The vent or drain holes provided at the back of the unit serve the dual purpose of natural ventilation and condensation drainage. Blocking these holes can affect the functionality of the product.



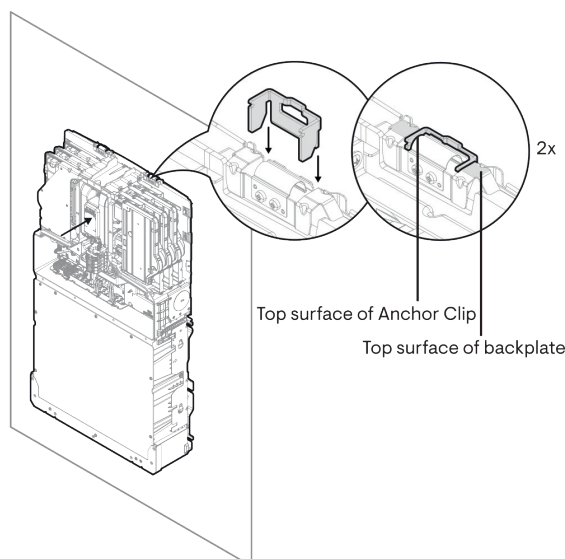
7.2 Installation of Anchor Clip

1. Push against the wiring cover and hold the IQ Battery 5P top section as close to the wall as possible.

- ⚠ **WARNING:** Risk of equipment damage. Do not push the battery, taking support of the PCUs.



2. Install two Anchor Clips to secure the top section of the IQ Battery 5P to the wall. Slide the Anchor Clip downwards until the top surface of the clip coincides with the top surface of the IQ Battery 5P backplate.



8. Wiring

8.1 Install conduit and field wiring

1. When installing a single IQ Battery 5P unit, insert the conduit in the cutouts drilled in the previous step.

✓ **NOTE:** When adding additional IQ Battery 5P units to an existing IQ Battery 5P site, disconnect B1 and B2 (DC connectors) on the adjacent existing IQ Battery 5P units. For information, see [Cable routing and closing the wiring cover](#) on page 23.



✓ **NOTE:** Use a “chase nipple” and “rigid coupling” as spacers for connecting 90° fitting to the battery. This avoids interference between the 90° fitting and battery ID cover. Make sure the joints are properly fastened and are watertight.

2. If installing more than one IQ Battery 5P, insert the conduit on the side of the unit closest to the AC circuit breaker. Follow the steps below to install rigid conduits between units:
 - a. Mount only one IQ Battery 5P on the wall.
 - b. Add the rigid conduit to it.
 - c. Adjust the rigid conduit in the first unit as required and mount the second IQ Battery 5P on the wall.
 - d. Repeat steps a, b, and c for mounting additional IQ Battery units.

✓ **NOTE:** After installation, check the level of IQ Battery 5P units to ensure that batteries are properly seated in the bottom mounting bracket slots.

✓ **NOTE:** Use a sealing gasket while fixing the conduit fitting or cable gland to improve ingress protection.

3. Starting from the unit closest to the AC circuit breaker, pass the power and control communication conductors through the conduit and make the two ends of conductors available on the unit and AC circuit breaker side.
4. Connect the power conductors and control communication cables on the terminal blocks (L, N, and PE) and the control communication connector, respectively. Each terminal block accepts conductors with an insulation strip length of 11 mm. Tighten the L and N terminals to 2.5 N m and the small Earth terminal to 1.5 N m.



WARNING: Do not disturb the factory termination connections on terminal blocks during field wiring.

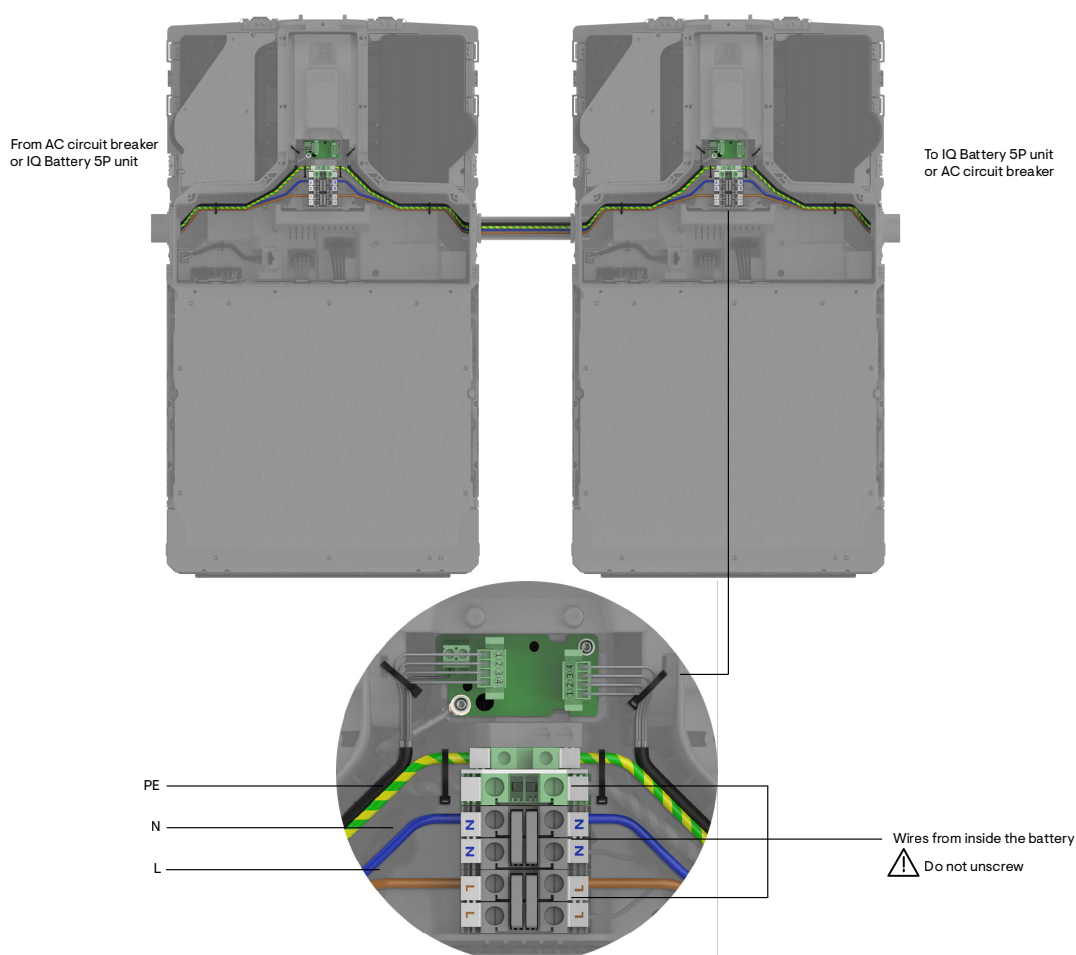
5. If connecting more than one IQ Battery 5P, connect power conductors between the terminal blocks and control communication cables between the CTRL connectors of these units such that the conductors connect on the right side of one unit and the left side of another unit after passing through the conduit. Repeat these steps until you arrive at the unit that is farthest from the AC circuit breaker.



NOTE: Power and control communication cables will run in parallel through conduits.



NOTE: The colours shown for field cables are only for representation purpose. Follow local regulations for field wiring identification standards.

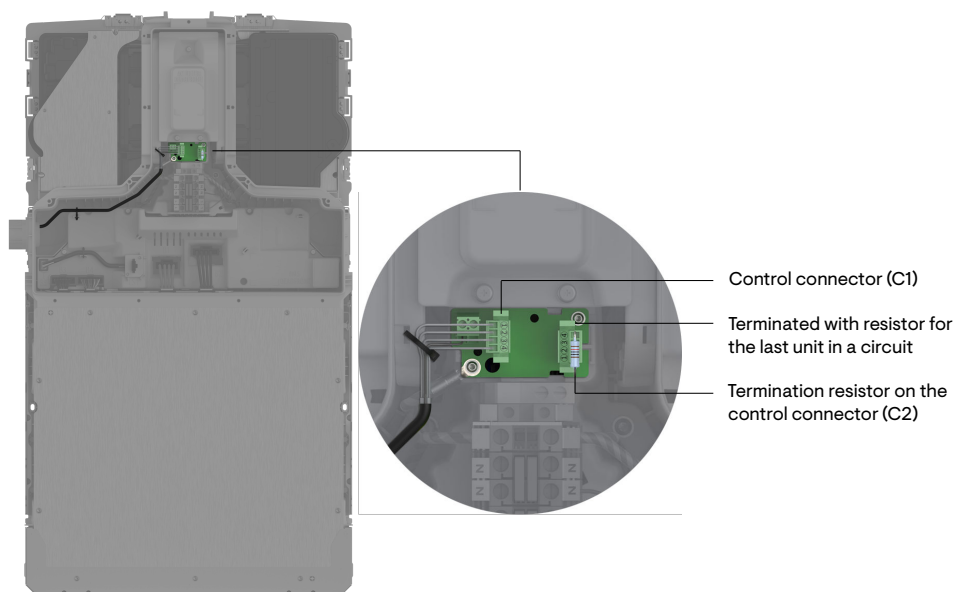


NOTE: Both L terminal blocks are shorted. Any free L terminal can be used for external connections. The N terminals are also wired similarly.



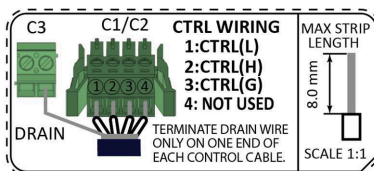
NOTE: The terminal blocks provide multiple free terminals for interconnecting IQ Battery 5P units. The figure shows an example.

6. The control communication board for the IQ Battery 5P is located above the terminal block for the power. Two control connectors and one drain connector are provided for control cable connection.

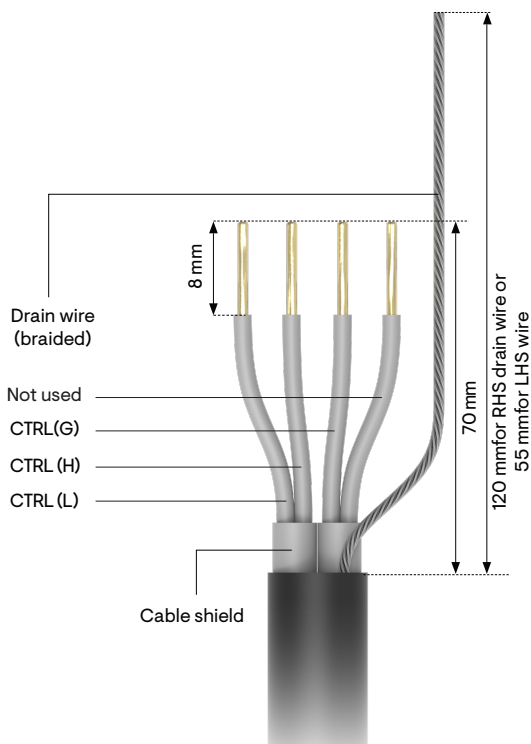


✓ **NOTE:** The drain wire of each length of the control cable should only be terminated on one end.

✓ **NOTE:** CTRL connectors (C1/C2) are identical and can be used interchangeably for IN and OUT connections.



7. Follow the jacket stripping length as shown in the following image. Keep the terminating resistor only on the devices that are on the two ends of the control communication bus, and remove the resistor from the rest of the devices. For more information, see [Control \(CTRL\) wiring between system components in grid-tied configuration](#) on page 21.



WARNING: Risk of communications loss. While attaching control cable connectors, ensure that the control cable conductors are not exposed.

Scan for the tested and supported control cable details: <https://link.enphase.com/control-cable-table-eu>.

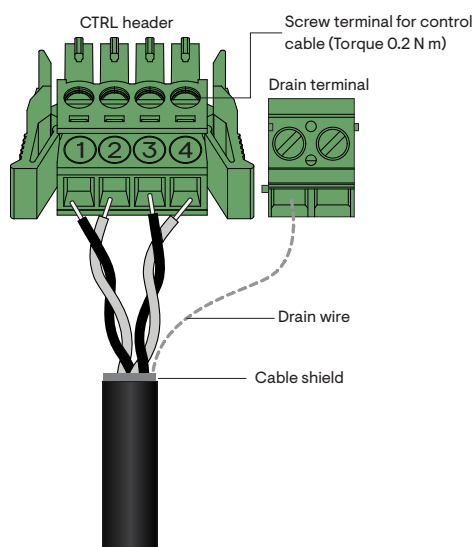


NOTE: Use an automatic wire-stripper tool like the one shown in the image below to strip the jacket of the control communication cable.



8. To ensure proper control (CTRL) cable connection between Communications Kit 2 and IQ Batteries, follow the guidelines outlined below while connecting the cable to the headers.

NOTE: Failure to follow wiring guidance will result in the system being unable to detect devices, leading to commissioning and operation failures.



Control header numbers	CTRL signals
Screw terminal 1	CTRL L- LOW
Screw terminal 2	CTRL H- HIGH
Screw terminal 3	CTRL G- GROUND
Screw terminal 4	Not used

Ensure that both ends of the CTRL cable twisted pair wires are inserted into the header. Confirm this by performing a continuity check between CTRL header screw terminals on both ends of the CTRL cable section.

Connect the drain wire to the drain terminal only at one end of a CTRL cable. Do not connect drain wires at both ends of a CTRL cable. For instructions, see [Control \(CTRL\) wiring between system components in grid-tied configuration](#) on page 21.

NOTE: Before pulling the cable through the conduit, perform continuity checks.

8.2 Control (CTRL) wiring between system components in grid-tied configuration

This section describes the control wiring guidance for the Enphase Energy System. Refer to the following wiring sequences to understand the position of the header with termination resistor, wiring order, and drain wire termination location.

Ensure the following guidelines are followed to avoid failures during system commissioning:

- One header with a termination resistor should be installed on each component that is at the extreme end of the control network.
- It is recommended to terminate the drain wire at the component from which the control wiring for the section is initiated.

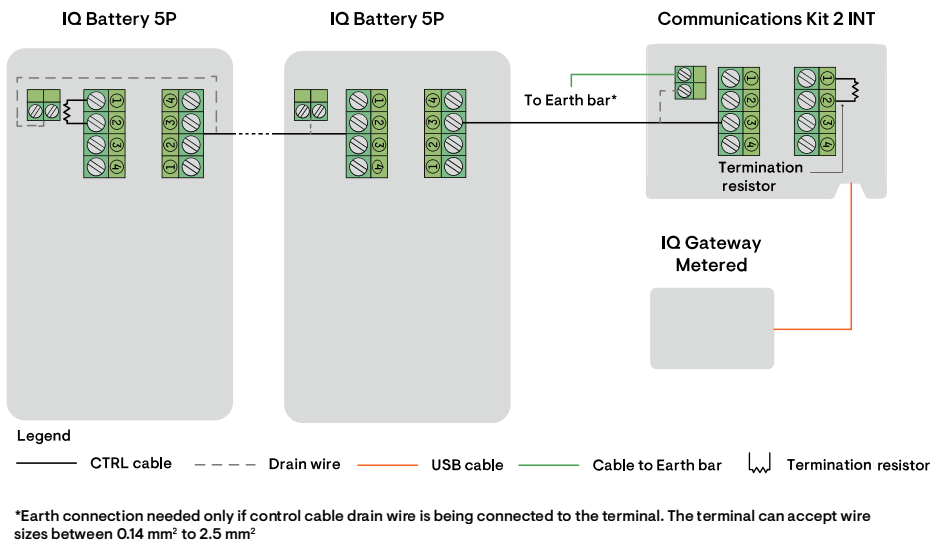


NOTE: The drain wire should be terminated only at one end of each control wiring section or length.

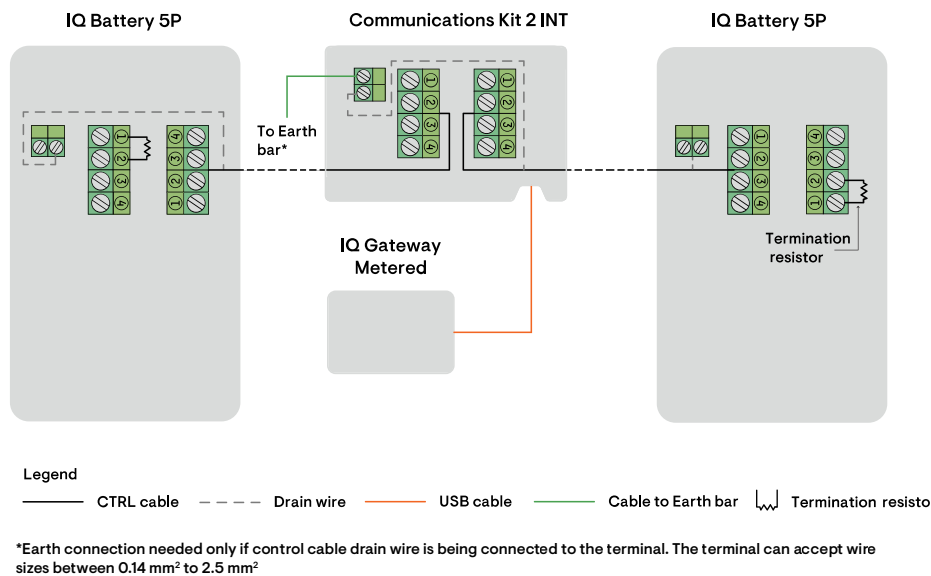
- The same conduits can be used for power and control wire routing with Enphase-recommended cables as long as local regulations allow for it. Use only Enphase-recommended control cables.

The following are two indicative wiring sequences.

Sequence 1: IQ Battery 5P → Communications Kit 2 INT



Sequence 2: IQ Battery 5P → Communications Kit 2 → IQ Battery 5P



NOTE: The total length of CTRL wiring across the system should not exceed 100 meters to ensure optimal system performance.

Here is a table providing termination resistor locations for the above sequences.

Control wiring sequence	Termination resistor location
Sequence 1	- First IQ Battery 5P in the battery circuit - Communications Kit 2
Sequence 2	IQ Battery 5P on the extreme ends of the circuit

8.3 Control (CTRL) wiring between system components in backup configuration

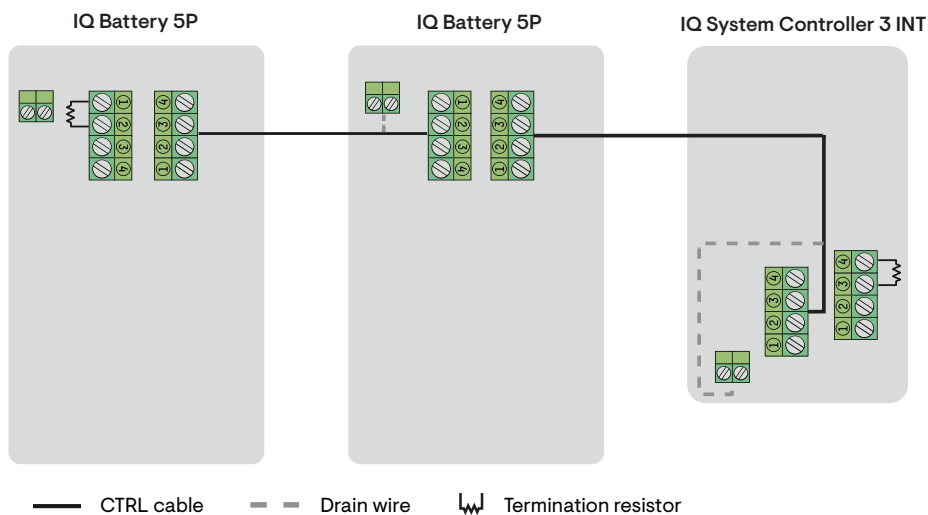
This section describes the control wiring guidance for the Enphase Energy System. Refer to the following wiring sequences to understand the position of the header with termination resistor, wiring order, and drain wire termination location.

Ensure the following guidelines are followed to avoid failures during system commissioning:

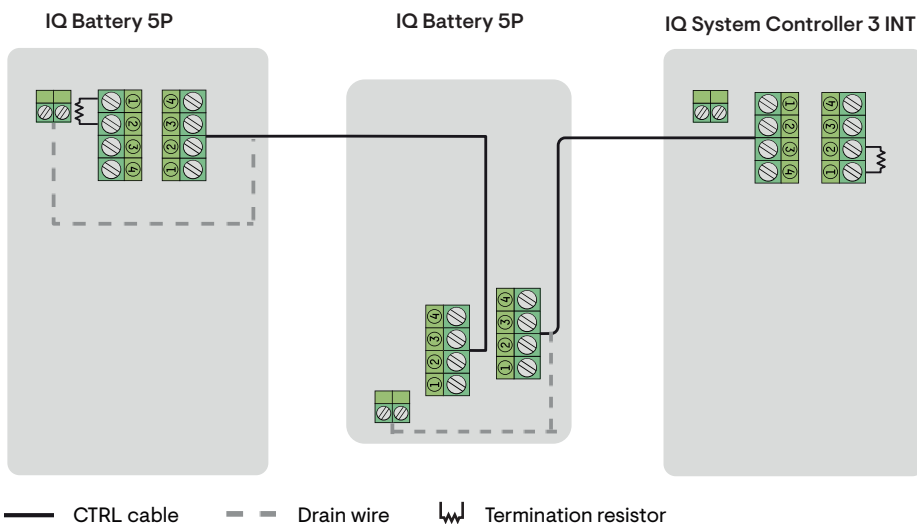
- One header with termination resistor should be installed on each component that is at the extreme end of the control network
- The drain wire should only be terminated on one end of the control wiring between system components
- It is recommended to terminate the drain wire at the component from which the control wiring for the section is initiated
- The same conduits can be used for power and control wire routing with Enphase recommended cables

The following are two indicative wiring sequences.

Sequence 1: IQ Battery(s) 5P → IQ System Controller 3 INT



Sequence 2: IQ Battery(s) 5P → IQ System Controller 3 INT → IQ Battery(s) 5P



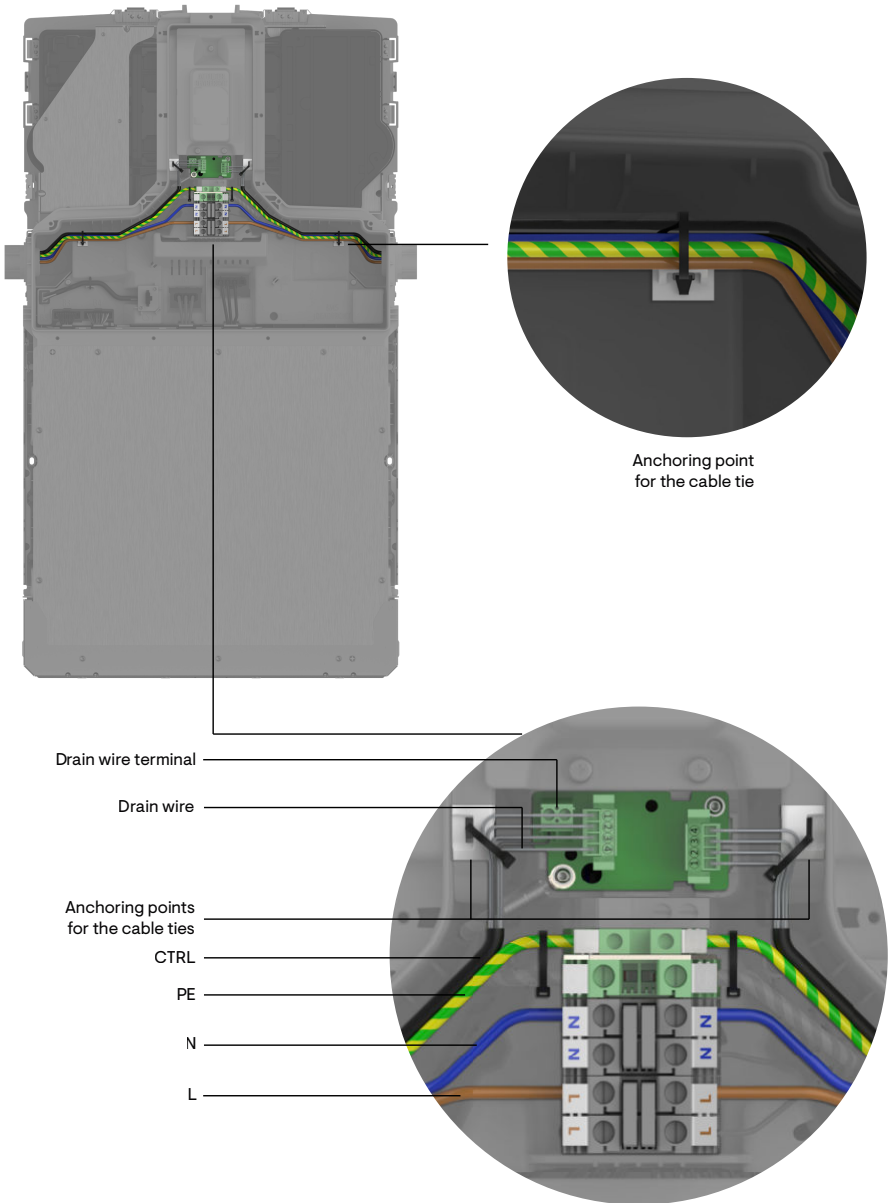
 **NOTE:** The total length of CTRL wiring across the system should not exceed 100 meters to ensure optimal system performance.

Here is a table providing termination resistor locations for the above sequences.

Control wiring sequence	Termination resistor location
Sequence 1	• First IQ Battery 5P in the battery circuit • IQ System Controller 3 INT
Sequence 2	• First IQ Battery 5P • Last IQ Battery 5P

8.4 Cable routing and closing the wiring cover

1. Route the conductors between conduit and terminal blocks using anchoring points, as shown in the following figure.

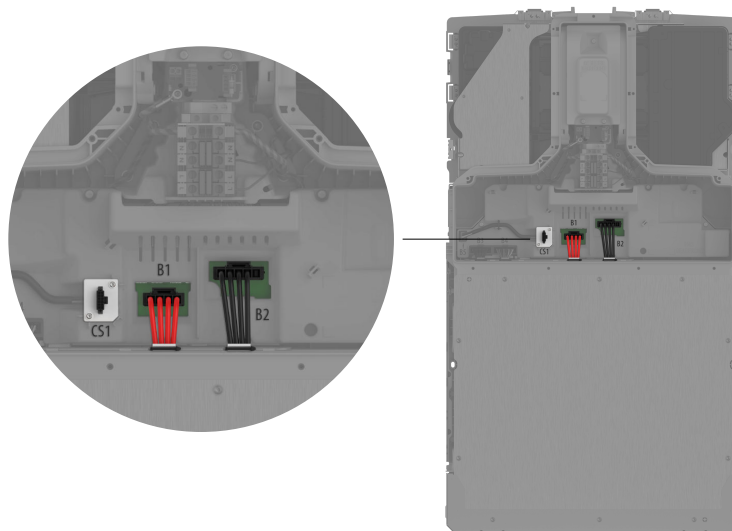


 **WARNING:** Make sure the drain wires do not come in contact with any live connection.

 **NOTE:** Cable ties are available in the accessories kit inside the 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.

2. After all wires in the field wiring compartment are connected and secured, make sure there are no exposed conductors.
3. Make sure the IQ Battery 5P unit that is farthest from Communications Kit 2 has a cutout only on one side, and all other sides are covered.

4. Apply AC power to the IQ Battery 5P circuits. Using a voltmeter, make sure the voltage between L and N on the terminal blocks of each IQ Battery 5P unit measures 230 VAC (195–253 V).
5. If the voltage is within the range as required by local codes, turn off the AC power supply.
6. Connect the following connectors to the BMS board:
 - - B1: Battery DC positive connector termination
 - B2: Battery DC negative connector termination
 - CS1: Control switch intermediate connector termination



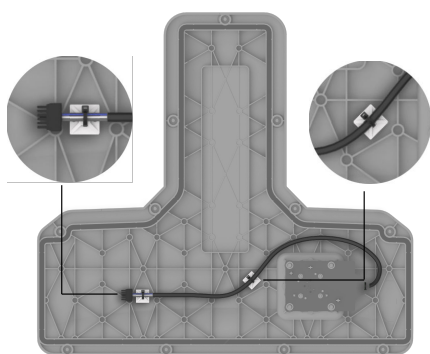
NOTE: Make sure the B1 connector is connected before B2.



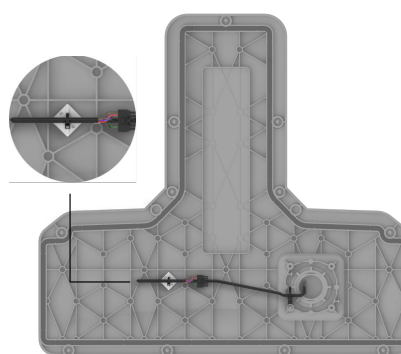
NOTE: Connect CS1 at last to avoid damage to the wiring cover.



WARNING: Ensure that all the connectors are latched properly and a clicking sound is heard.



Cut two cable ties and insert the connector on CS1 in the BMS board



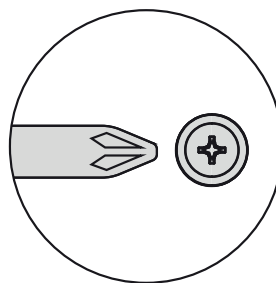
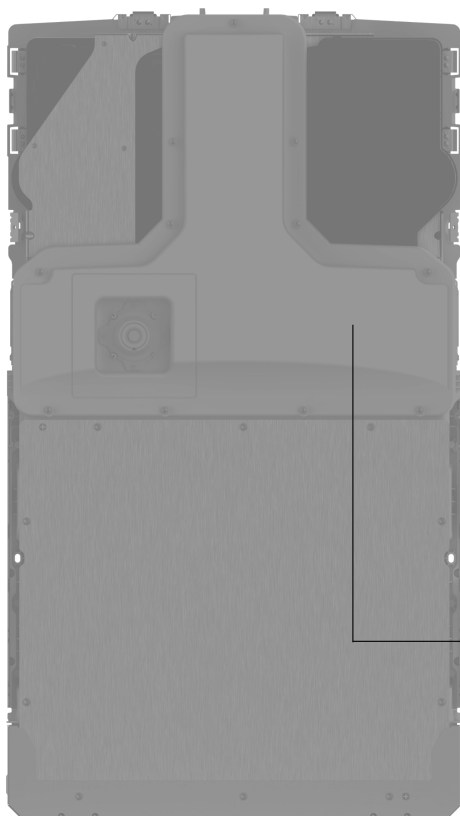
Cut one cable tie and insert the connector on CS1 in the BMS board



NOTE: There are two variants of the control switch available in IQ Battery 5P. The control switch cable is secured to the wiring cover using cable ties. Select the control switch available at the site based on the above images and cut the cable ties on the wiring cover to access the control switch cable.

7. Fasten the 11 captive screws at the wiring cover as shown.

Use a screwdriver or electric drive; do not use impact drives or impact drills.

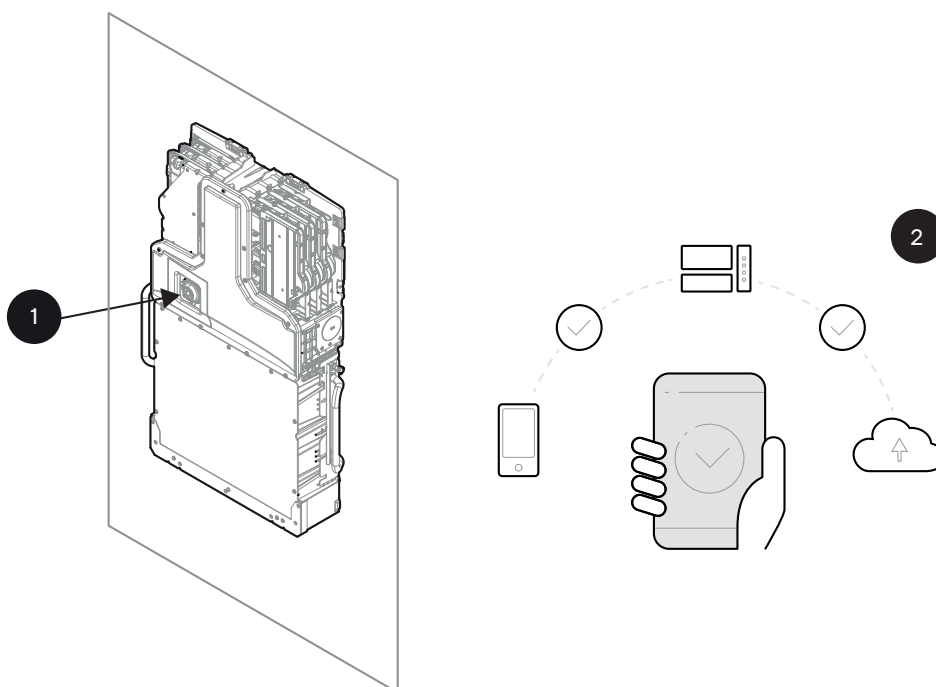


Check the red caution label on the unit
(as illustrated in the image below)
for the specified torque value of captive screws

⚠ WARNING RISK OF ELECTRIC SHOCK DO NOT REMOVE THIS COVER. SERVICE WORK SHOULD ONLY BE PERFORMED BY A QUALIFIED PERSON.	⚠ AVERTISSEMENT RISQUE D'ÉLECTROCUTION NE PAS RETIRER LE CARÉNAGE ; SEUL UN TECHNICIEN QUALIFIÉ EST HABILITÉ À RÉPARER OU À ENTREtenir CET APPAREIL.	DO NOT USE IMPACT DRIVES AND DRILLS TO FASTEN/ LOOSEN THE SCREWS SCREW FASTENING SEQUENCE
⚠ CAUTION! FOLLOW THE SEQUENCE SHOWN TO PARTIALLY TORQUE THE 11x SCREWS. FULLY TORQUE ALL THE SCREWS TO MAX 2.2 ± 0.15 Nm AT MAX 1000RPM, ONLY AFTER ALL OF THEM ARE IN POSITION.		
INSTRUCTIONS TO REMOVE THE WIRING COVER PRIOR TO INSTALLATION / SERVICING 1. LOOSEN THE 11x SCREWS TO REMOVE THE WIRING COVER FOR INSTALLATION / SERVICING. REFER QIG FOR MORE DETAILS. 2. FOR SERVICING, MOVE THE WIRING COVER GENTLY AWAY FROM THE UNIT TO FIND THE CONTROL SWITCH (C) INTERMEDIATE CONNECTION AND UNPLUG IT FROM THE PANEL MOUNT CONNECTOR BEFORE REMOVING WIRING COVER COMPLETELY.	INSTRUCTIONS TO ASSEMBLE THE WIRING COVER AFTER INSTALLATION / SERVICING 1. PLUG THE CONTROL SWITCH INTERMEDIATE CONNECTOR (C) TO THE PANEL MOUNT CONNECTOR AND ENSURE THAT THE CABLE IS ROUTED INSIDE THE UNIT PROPERLY BEFORE ASSEMBLING THE WIRING COVER COMPLETELY. 2. FASTEN THE SCREWS AS PER ABOVE INSTRUCTIONS. REFER QIG FOR MORE DETAILS.	

✓ **NOTE:** Ensure no cables are pinched when installing the wiring cover.

9. Energizing and configuring the system



⚠ WARNING: Before energizing, make sure that all IQ Batteries in the system are properly installed, microinverters are properly inserted and conductors are terminated.

WARNING: Do not leave the DC control switch in the ON position without the AC power supply available. This depletes the battery and may lead to a condition where the battery cannot be turned ON and commissioned.

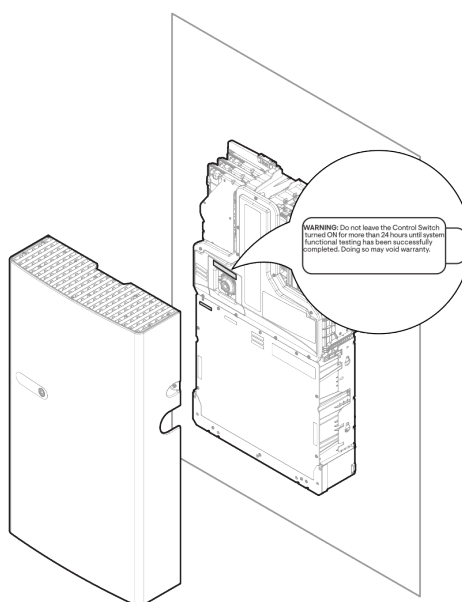
1. IQ Battery 5P is now ready for commissioning, and you can start the Enphase Installer App workflow.
2. Use the Enphase Installer App to commission the IQ Battery units. Once connected to the IQ Gateway, refer to the Enphase Installer App help topics for more information.
3. Apply AC power to the IQ Battery 5P circuits. The LED flashes green once and switches off. After 15-20 seconds, it starts flashing in a red triple-flash pattern.
4. Press the DC control switch on the battery and then wait until the LED starts flashing yellow.

10. Installing the IQ Battery 5P cover

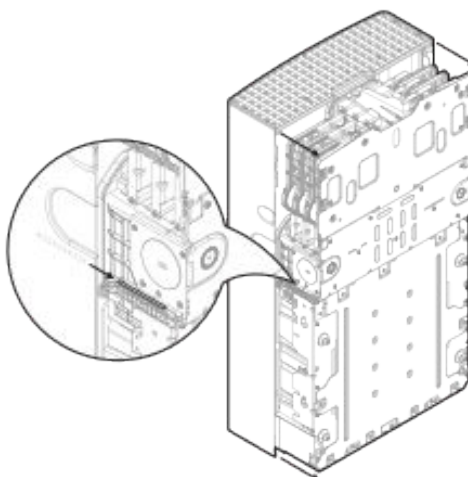
1. Ensure the wiring cover(s) for all IQ Batteries in the system are closed and secured.

WARNING: Risk of equipment damage. Make sure no wires are pinched before placing the cover.

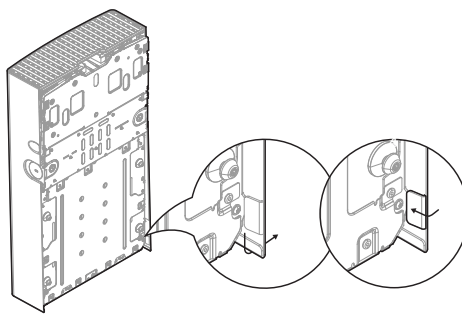
2. Peel off this sticker before installing the ID cover.



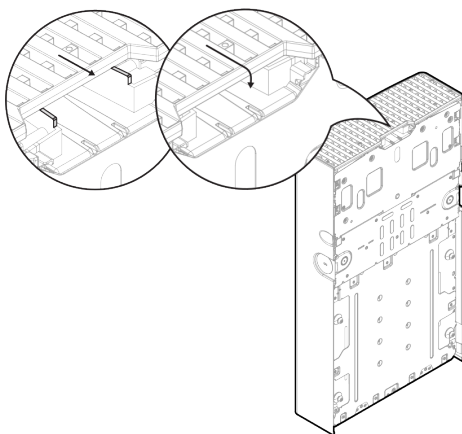
3. Slide on the IQ Battery 5P cover in the indicated direction such that the tab of the cover in the highlighted region rests and slides on the latch in the IQ Battery 5P chassis.



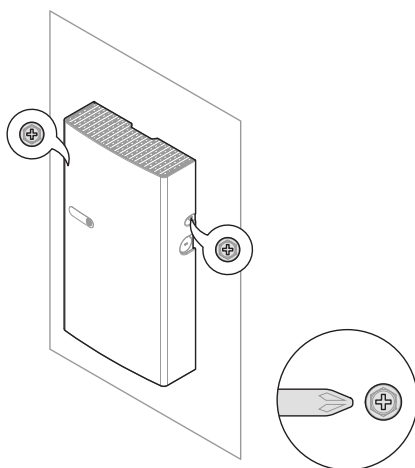
4. Before releasing the IQ Battery 5P cover, pull out the lower edges while sliding in the cover and make sure the tabs are locked to the back plate.



5. Push in the top portion of the cover as shown and make sure that the cover is locked in place.



6. Fasten the cover to the backplate using two M5 ID cover grounding screws (torque to 3.1 N m) to fix the cover firmly in place and to comply with EMI and EMC requirements.

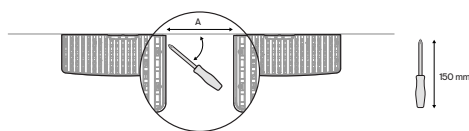


M5 ID cover grounding screws
(torque to 3.1 N m)



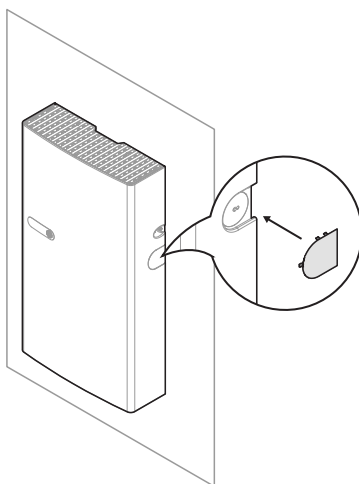
NOTE: Use a screwdriver or electric drive; do not use impact drives or impact drills.

7. If the spacing 'A' between the units is <165 mm, a screwdriver of a maximum length of 150 mm should be used to fasten the cover to the backplate.

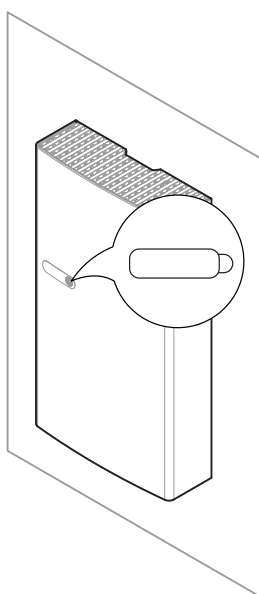


✓ **NOTE:** The screw is accessible at an angle to the wall.

8. After installing the cover, the conduit cover should be installed to cover the opening in the IQ Battery 5P cover on the side.
- If a conduit or cable gland is installed, the conduit cover is not necessary on that side. If no conduit or cable gland is installed, then the conduit cover should be installed to cover the opening in the IQ Battery 5P cover on the other side.



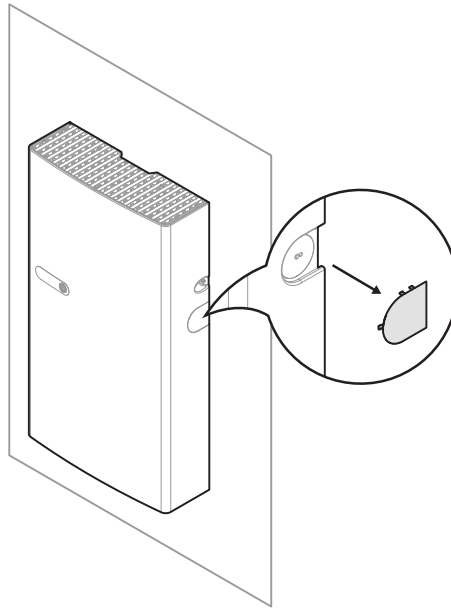
9. Peel off the sticker after the installation is complete.



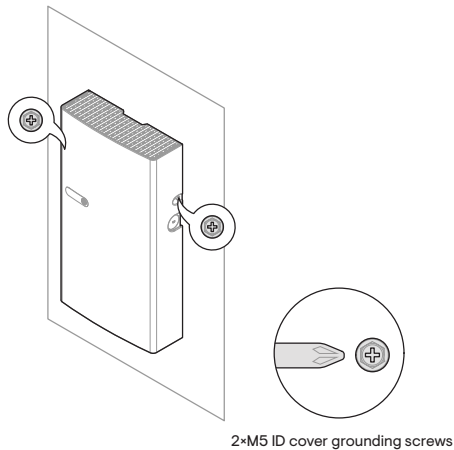
11. Disassembling the IQ Battery 5P cover

Refer to these instructions when you need to remove the cover. This is not a step required for installing or commissioning the IQ Battery 5P.

1. Remove the conduit covers from both sides of the IQ Battery 5P cover.



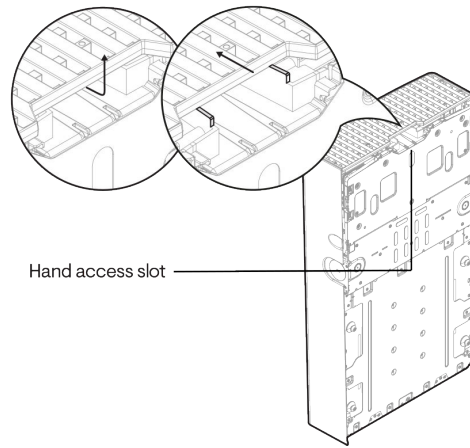
2. Remove the two M5 ID cover grounding screws, which are used to fix the cover to the backplate.



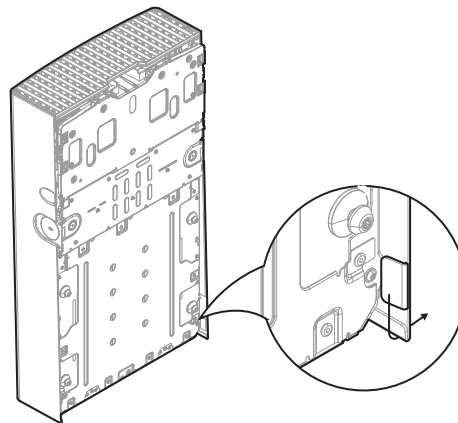
✓ **NOTE:** Use a screwdriver or electric drive; do not use impact drives or impact drills.

3. Using the hand access slot, pull the top plastic grill slightly, as shown in step 3.

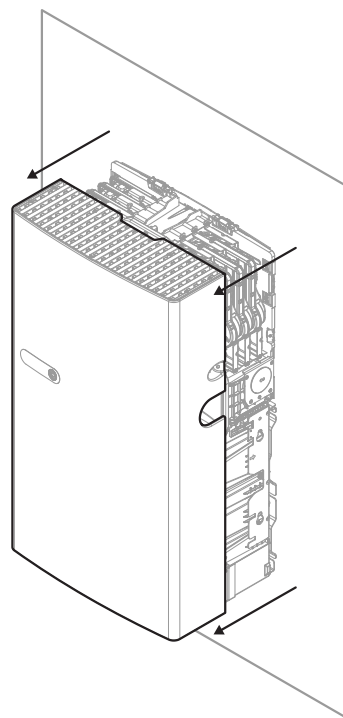
Unlock the top plastic cover from the ribs, as shown in step 4. Make sure the cover is slightly inclined after this step.



4. Pull out the lower portion of the cover in order to unlock the angular tabs and move it slightly away from the wall.



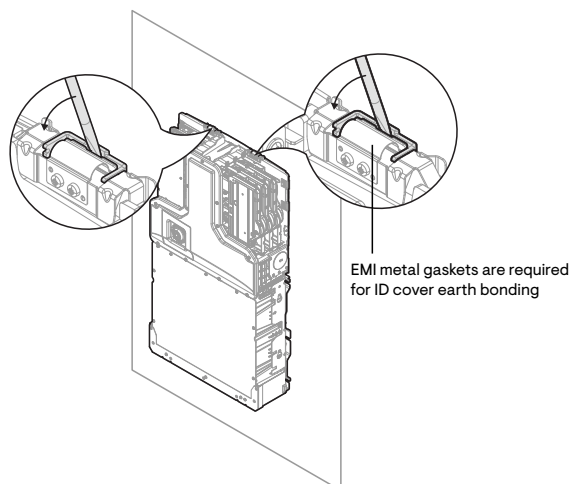
5. Pull the cover off in the indicated direction.



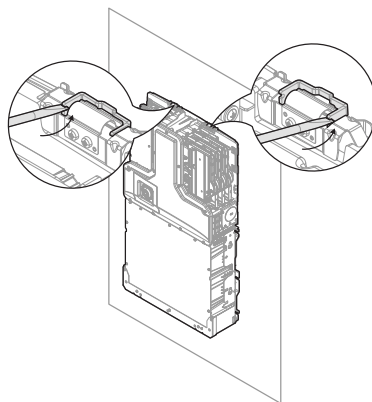
12. Disengaging the Anchor Clip

Refer to these instructions when you need to remove the Anchor Clip. This is not a required step prior to commissioning.

To disengage the Anchor Clip, lift it up using a flat-head screwdriver or nose plier. Installers need to carefully insert the tool at the back slot, as shown below, and pull the clip upwards.



Alternatively, Anchor Clips can also be lifted by using the front slots on either side of the clip using a flat-head screwdriver.



WARNING: Ensure not to touch or damage the EMI metal gaskets while removing the clips. EMI metal gaskets are delicate and need to be handled carefully.

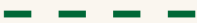
13. Operation

13.1 LED overview

After being commissioned, the LED flashes yellow while each IQ Battery 5P 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 IQ Battery 5P 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 <https://enphase.com/contact/support>.

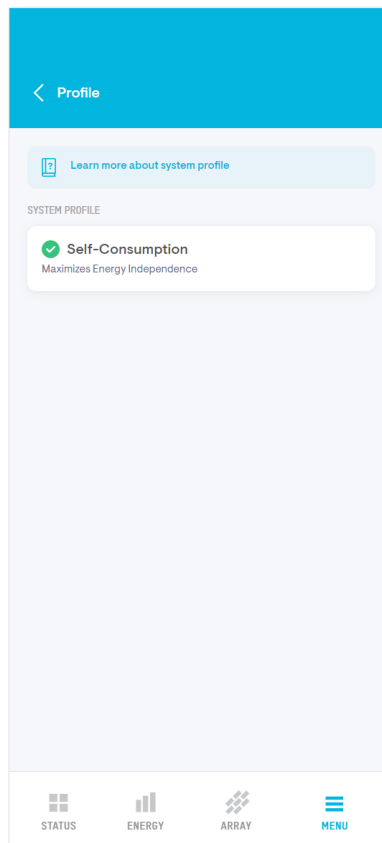
LED colour	State	Description
	Rapidly flashing yellow	Starting up/establishing communications.
	Solid yellow	Not operating due to high temperature. See Troubleshooting on page 32.
	Soft pulse blue	Discharging.

LED colour	State	Description
	Solid blue or green	Idle. The colour transitions from blue to green as the state of charge increases. Check the Enphase App/ Enphase Installer Platform for charge status.
	Soft pulse green	Charging.
	Red double flash	IQ Battery 5P is in an error state. Contact Enphase Support to troubleshoot the issue.
	Red triple flashes	DC control switch is OFF, and AC from external source is present.
	Soft pulse red	DC control switch is ON, and AC from external source is NOT present.
	Off	DC control switch is OFF, and AC from external source is not present.

13.2 Operating mode

The grid-tied IQ Battery 5P supports self-consumption mode as default. In this mode, the battery charges when there is excess solar power production and discharges to support the electric loads whenever the solar power is insufficient. During a grid outage, the grid-tied IQ Battery 5P stops functioning.

For more information on Operation modes, refer to the *Storage System owner's guide* at <https://enphase.com>.



13.3 Troubleshooting

If the IQ Battery(ies) are not operating correctly, follow these troubleshooting steps. If the issue persists, contact <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 bottom, top, and sides of IQ Battery 5P have at least 15 cm (6 in) clearance from the wall.
2. If the IQ Battery 5P LED is off, turn off the circuit breaker for the branch circuit, wait for at least one minute, and turn it back on.

 **NOTE:** IQ Battery 5P has multiple field-replaceable parts. These must be replaced by trained service personnel. Contact Enphase Support before replacing any part.

 **NOTE:** During a brownout or blackout, IQ Battery 5P powers down automatically. This is normal. When power is restored, it automatically starts up again.

3. If you do not see IQ Battery 5P information in the Enphase App, check that the IQ Gateway and the internet connection are working.
4. If the issue persists, contact <https://enphase.com/contact/support>.

13.4 Shutdown procedure

1. Isolate the AC power by de-energizing the AC power supply to the IQ Batteries.
2. Using a multimeter, confirm that there is no AC power present.
3. Ensure the DC switch is in the OFF position using the following steps:
 - If the IQ Battery 5P LED is OFF, the DC switch is OFF, and the IQ Battery 5P is in shutdown mode.
 - If the IQ Battery 5P LED (any colour) is ON, press the DC switch once to turn it OFF and place IQ Battery 5P in shutdown mode.

13.4.1 Limitation of use

Your IQ Battery 5P 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 5P 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 5P device in such circumstances.

14. Safety

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. Failing to follow any of these instructions may void the warranty (<https://enphase.com/installers/resources/warranty>). For more information, refer to the [Safety data sheet](#).

14.1 In case of fire or other emergency

In all cases:

- If safe to do so, switch off the AC circuit breaker for the IQ Battery 5P circuit, and if an isolator switch is present, switch off the AC isolator for the IQ Battery 5P circuit.
- Contact the fire department or other required emergency response team.
- Evacuate the area.
- Contact <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 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 or in the venting area of the IQ Battery.
- Ventilate the room.

In case of electrolyte exposure:

The Enphase IQ Battery 5P has a lithium iron phosphate (LFP) battery that contains organic electrolyte and is sealed in a protective case. The leaked electrolyte is toxic and highly flammable. The leaked electrolyte is colourless and has a sweet odour. Electrolyte fluid tends to evaporate quickly, leaving behind a white, grainy substance. If an odour is obvious, proceed to the following steps:



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

1. Evacuate personnel to a safe area and keep unauthorized personnel away.
2. Isolate the spill area to a minimum distance of 75 feet (25 m).
3. Eliminate all ignition sources (no smoking, sparks, flames, or hot equipment) in the immediate area around the spill.
4. Do not touch or walk through spilt material.
5. Avoid breathing vapors. Ensure adequate ventilation.
6. Use personal protective equipment.
7. Contact <https://enphase.com/contact/support> or 1800 006 374.

Emergency telephone number (ChemTel): +01 (813) 248-0585

14.2 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.

14.3 Safety instructions

-  **DANGER:** Risk of electric shock. Risk of fire. Only qualified electricians should install, troubleshoot, or replace the IQ Battery.
-  **DANGER:** Risk of fire or explosion. Only qualified personnel using personal protective equipment (PPE) should transport or handle the IQ Battery.
-  **DANGER:** Risk of explosion. Do not dispose of IQ Battery in a fire or by burning. The IQ Battery 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 in an area that is well-ventilated and protected from the elements, where the ambient temperature and humidity are within -20°C to 55°C (-4°F to 131°F) and 5% to 95% RH, non-condensing. Do not install the IQ Battery at elevations over 2500 m (8202 ft) above sea level.
-  **DANGER:** Risk of fire. If the IQ Battery generates smoke, remove AC power from the Enphase system and turn the DC 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 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.
-  **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.
-  **DANGER:** Risk of electric shock. In areas where flooding is possible, install the IQ Battery 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:** 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 in an upright position.
-  **WARNING:** You must install the IQ Battery only on a suitable wall using an Enphase wall-mount bracket.
-  **WARNING:** Before installing or using the IQ Battery, read all instructions and cautionary markings in this guide and on the equipment.
-  **WARNING:** Do not install or use the IQ Battery if it has been damaged in any way.
-  **WARNING:** Do not exceed the maximum number (1) of IQ Batteries in a 20 A AC branch circuit.
-  **WARNING:** Do not sit on, step on, place objects on, or insert objects into the IQ Battery.
-  **WARNING:** Do not place beverages or liquid containers on top of the IQ Battery. Do not expose the IQ Battery to liquids or flooding.
-  **WARNING:** When placing the IQ Battery in storage, ensure to follow the shutdown procedure and confirm that AC power is not present and that the DC switch is in the OFF position. While in storage, damage to the battery can occur from over-discharge. If the battery state of charge falls to 0%, the IQ Battery can be damaged or destroyed. Because of this, the IQ Battery must only be stored for a limited amount of time.
- The IQ Battery must be installed and energized by the “Must Energize By” date on the shipping box label.
 - The IQ Battery must have a charge state of no more than 30% when placed in storage. To do this, the IQ Battery must be placed in Sleep Mode.
 - If the IQ Battery has already been installed, it must be placed into Sleep Mode prior to uninstalling. A battery in Sleep Mode can be stored for a maximum of two months after being placed into Sleep Mode.
-  **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:** Use a G99 type tested third-party network protection relay for IQ Battery 5P units with a system size above 17 kW per phase.
-  **NOTE:** To ensure optimal reliability and to meet warranty requirements, the IQ Battery units must be installed and/or stored according to the instructions in this guide.

- ✓ **NOTE:** The Enphase IQ Battery is intended to operate with an internet connection. Failure to maintain an internet connection may have an impact on the warranty. See Limited Warranty for the complete terms and services <https://enphase.com/installers/resources/warranty>.
- ✓ **NOTE:** When replacing Enphase IQ Battery, you must replace it with an IQ Battery of the same type with the same AC current rating.
- ✓ **NOTE:** When disconnected and stored, no automatic charge of the battery is possible.
- ✓ **NOTE:** Mount the IQ Battery properly. Ensure that the mounting location is structurally suited to bearing the weight of the IQ Battery.
- ✓ **NOTE:** During use, storage, and transport, keep the IQ Battery:
 - Properly ventilated.
 - Away from the water, other liquids, heat, and sparks.
 - 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 900 mm minimum mounting height.
 - At an elevation of less than 2,500 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 5P installation site also apply to storage conditions.

Compliance with EU Directives

This product complies with the following EU Directives and can be used in the European Union without any restrictions.

- Battery Directive 2006/66/EC
- Electromagnetic Compatibility (EMC) directive 2014/30/EU
- Low Voltage Directive (LVD) 2014/35/EU
- Restriction of Hazardous Substances (RoHS) 2011/65/EU

The full text of the EU Declaration of Conformity (DoC) is available at <https://enphase.com/en-gb/installers/resources/documentation>.

Manufacturer

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Importer

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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.

Note for third-party products

Any third-party manufacturer or importer product(s) used to install or commission Enphase product(s) shall comply with the applicable EU Directive(s) and requirements in the European Economic Area (EEA). It is the responsibility of the installer to confirm that all such products are labelled correctly and have the required compliant supporting documentation.

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

15. Revision history

Revision	Date	Description
140-00333-06	April 2026	Updated the "Plan a location for the IQ Batteries" and "Safety instructions" sections.
140-00333-05	August 2024	• Updated the "Control communication wiring between system components", "Mounting the product" and "LED overview" sections. • Added "P-Q diagram". • Editorial updates.
140-00333-04	April 2024	• Updated control (CTRL) wiring between system components in backup configuration. • Added 'Planning consideration for South Africa' section.
140-00333-03	November 2023	• Updated QR code and Product Images. • Editorial updates.
140-00333-02	October 2023	Updated the "LED status", "Control wiring", and "What's in the box" sections and made editorial updates throughout the document.
140-00333-01	July 2023	Initial release.

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