TECHNICAL BRIEF

IQ Battery emergency response

Applicable regions: North America

Contents

1. Overview

This document is intended for Emergency Response Teams and Authorities Having Jurisdiction (AHJs) to learn more about safety measures and emergency response strategies for Enphase IQ Batteries (IQ Battery 10C/10CS, IQ Battery 5P, IQ Battery 3T/10T, IQ Battery 3/10, Enphase IQ Battery and Enphase AC Battery).

The document will help readers better understand product identification, potential product hazards, emergency responses, and first aid measures.

Customers, installers, and others can learn about IQ Battery safety information from the product installation guides available at the Documentation Center. In any emergency, contact local emergency response teams (dialing 911, in the U.S.) and evacuate the area as quickly as possible.

Enphase IQ Batteries are all-in-one AC-coupled lithium-ion batteries that can be installed at home to store excess solar energy for reuse. This document pertains to the IQ Battery product variants; the terms "IQ Battery, the battery, and the batteries" are used interchangeably unless generation-specific features are indicated, in which case the specific model name is used.

2. Product identification

All Enphase IQ Battery products are designed to meet and are certified to UL 9540 – Standard for Safety - Energy Storage Systems and Equipment. Ensures that it meets the industry-recognized safety standard for stationary energy storage installations.

All Enphase IQ Battery products are manufactured with Lithium Iron Phosphate (LFP) chemistry, one of the industry's safest Li-ion chemistries. Each IQ Battery is powered by IQ Microinverters that function on a distributed architecture making the IQ Battery safer and more reliable than other systems. Still, all batteries can be dangerous goods, so users are expected to follow all the recommendations.

2.1 IQ Battery product variants

The following table lists the IQ Battery product variants and their specifications.

Product	SKUs	Power (kVA)	Capacity (kWh)	Max DC voltage (Vdc)	Weight (kg)	Dimensions (H × W × D)
IQ Battery 10C 	IQBATTERY-10C-1P-NA	7.08	10.0	86.4	144	62 cm × 71 cm × 36 cm (24.5 in × 28 in × 14.4 in)

Product	SKUs	Power (kVA)	Capacity (kWh)	Max DC voltage (Vdc)	Weight (kg)	Dimensions (H × W × D)
IQ Battery 10CS[1] 	IQBATTERY-10CS-1P-NA	7.08	10.0	86.4	148	Two units of 62 cm × 71 cm × 18 cm (24.5 in × 28 in × 7.2 in) each
IQ Battery 5P 	IQ BATTERY-5P-1P-NA IQBATTERY-5P-1P-NA-DOM IQ BATTERY-5P-1P-ROW IQ BATTERY-5P-1P-INT	3.84	5.00	86.4	78.9	98 cm × 55 cm × 19 cm (38.6 in × 21.7 in × 7.4 in)
IQ Battery 3 	ENCHARGE-3T-1P-NA	1.28	3.36	75.6	48.8	78 cm × 43 cm × 19 cm (30.5 in × 16.9 in × 7.4 in)
	ENCHARGE-3T-1P-INT		3.50			
IQ Battery 10T 	ENCHARGE-10T-1P-NA	3.84	10.08	75.6	143.6	78 cm × 128 cm × 19 cm (30.5 in × 50.5 in × 7.4 in)
	ENCHARGE-10T-1P-INT		10.50			
IQ Battery 3 	ENCHARGE-3-1P-NA	1.28	3.36	73.5	52	66 cm × 37 cm × 32 cm (26.1 in × 14.5 in × 12.6 in)
IQ Battery 10 	ENCHARGE-10-1P-NA	3.84	10.33	73.5	154.7	66 cm × 107 cm × 32 cm (26.1 in × 42.1 in × 12.6 in)

[1] Each IQ Battery 10CS contains two 5 kWh units discretely stacked.

Product	SKUs	Power (kVA)	Capacity (kWh)	Max DC voltage (Vdc)	Weight (kg)	Dimensions (H × W × D)
Enphase AC Battery 	B280-1200-LL-I-US00-RF0 IQ7-B1200-LN-I-INT01-RV0	0.27	1.2	25.6	25	33 cm x 39 cm x 22 cm (12.8 in x 15.4 in x 8.7 in); without bracket
Enphase IQ Battery 	IQ6PLUS-B1200-LL-I-US00-RV1	0.27	1.2	25.6	25	33 cm x 39 cm x 22 cm (12.8 in x 15.4 in x 8.7 in); without bracket

2.2 Reference documents

The Enphase IQ Battery safety data sheets can be downloaded from the following links:

Links	QR code
IQ Battery 10C/10CS safety data sheet	
IQ Battery 5P safety data sheet	
IQ Battery 3,10, 3T, and 10T safety data sheets	

Links	QR code
Enphase AC Battery and IQ Battery safety data sheets	

2.3 Product installations

A few actual product installation images are shown below.

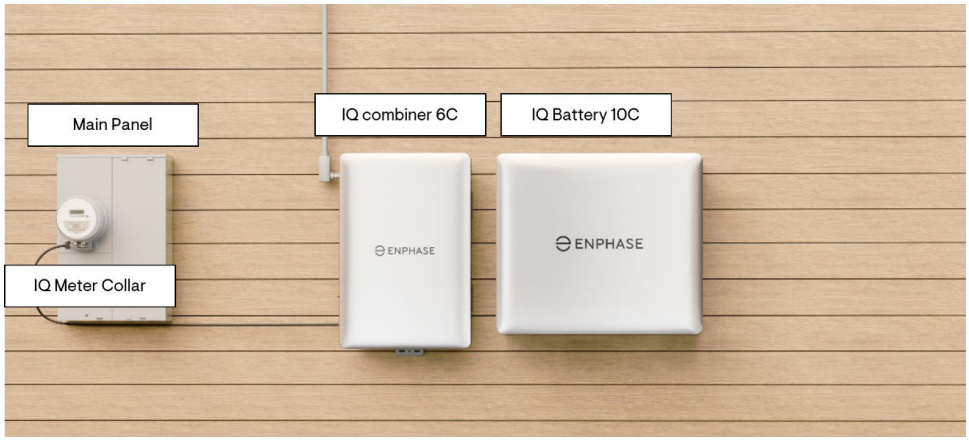


Figure 1: IQ Battery 10C in North America

Figure 2: IQ Battery 5P in North America

Figure 3: IQ Battery 5P outside North America

Figure 4: IQ Battery 3T/IQ Battery 10T

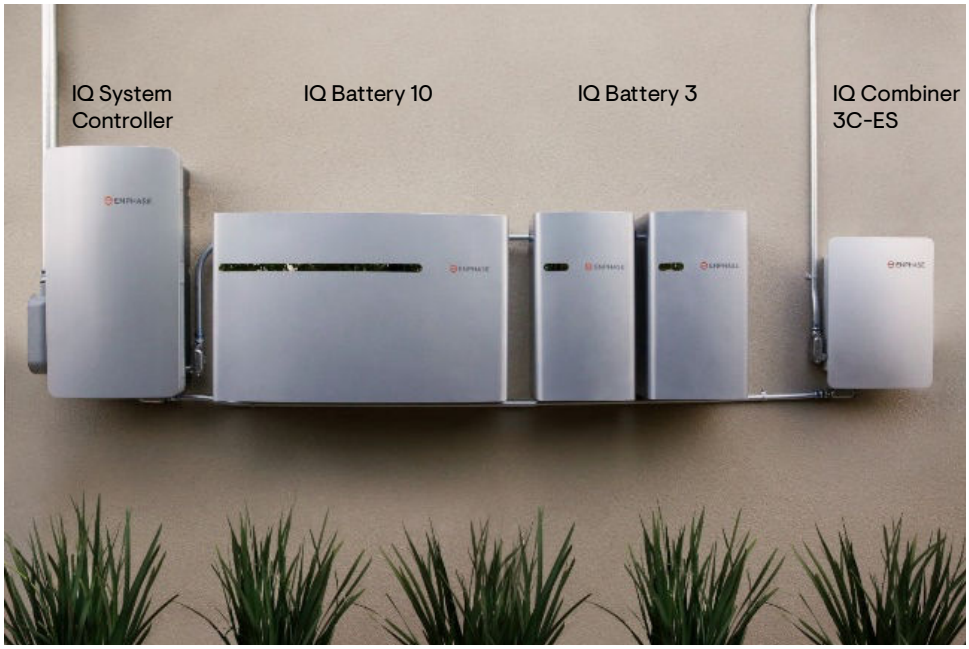


Figure 5: IQ Battery 3/IQ Battery 10

2.4 Enphase Energy System shutdown procedure for fourth-generation systems

The emergency shutdown procedure for the 4th generation Enphase Energy System, incorporating the IQ Battery 10C and IQ Combiner 6C, is designed to ensure the safety and protection of both personnel and equipment during unforeseen circumstances. This section outlines the critical steps to safely and efficiently deactivate the system, minimizing risks and preventing potential damage.

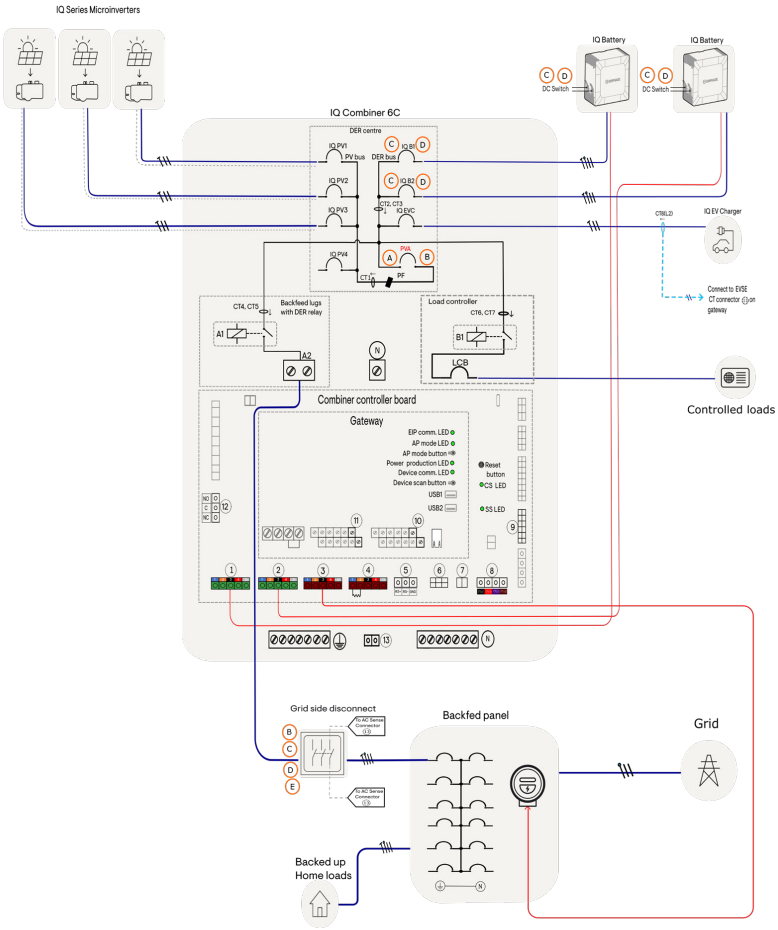
If the IQ Combiner 6C is readily accessible:

- The PV branch circuit breaker inside the IQ Combiner can act as the PV System disconnecting means (2023 NEC 690.13) and for PV rapid shutdown (2023 NEC 690.12).
- The battery breakers (in the IQ Combiner) can act as the Enphase Energy System (ESS) disconnecting means as specified in 2023 NEC 706.15 and for ESS emergency shutdown (2023 NEC 706.15B).

Suppose the IQ Combiner 6C is not readily accessible. In that case, the main DER breaker in the main panel can also act as the rapid shutdown device, and the ESS disconnecting means that the main panel is readily accessible.

If the IQ Combiner 6C and the main panel are not readily accessible, an additional grid side disconnect may be installed as the RSD device and ESS disconnecting means.

Reference notation on a single-line diagram	Initiators/Disconnect per NEC code or utility requirements	PV aggregate breaker	Battery breakers in IQ Combiner 6C	The battery DC switches on IQ Battery 10C	Grid-side disconnect
A	PV System disconnecting means (2023 NEC 690.13)	Yes	No	No	No
B	PV rapid shutdown (2023 NEC 690.12)	Yes	No	No	Yes
C	ESS disconnecting means (2023 NEC 706.15)	No	Yes	Yes	Yes
D	ESS emergency shutdown (2023 NEC 706.15B)	No	Yes	Yes	Yes
E	Visible break for the DER system (only if required by AHJ or utility)	No	No	No	Yes



NOTE: Grid side disconnect requires a three-pole disconnect with the third pole connected to the AC-sense or a double-pole disconnect with auxiliary contacts connected to the AC-sense of IQ Combiner 6C.

2.5 Enphase Energy System shutdown procedure for third-generation and older systems

The System Shutdown Switch (EP200G-NA-02-RSD) is an accessory for the IQ System Controller 2 (EP200G101-M240US01), IQ System Controller 3(SC200D111C240US01), and IQ System Controller 3G (SC200G111C240US01). The switch is wired to the IQ System Controller 2 and IQ System Controller 3/3G. It can act as an initiation device for NFPA 70 – 2023 NEC Article 706.15B emergency shutdown function requirements when located at a readily accessible location outside the building.

NOTE: The System Shutdown Switch is locakble in the off position, that is, open position in accordance with 2023 NEC 110.25.

Refer to the PV rapid shutdown and energy storage system disconnect in the Enphase Energy System technical brief for detailed instructions regarding the system shutdown procedure.

2.5.1 Grid-interactive (grid-tied) systems (no backup)

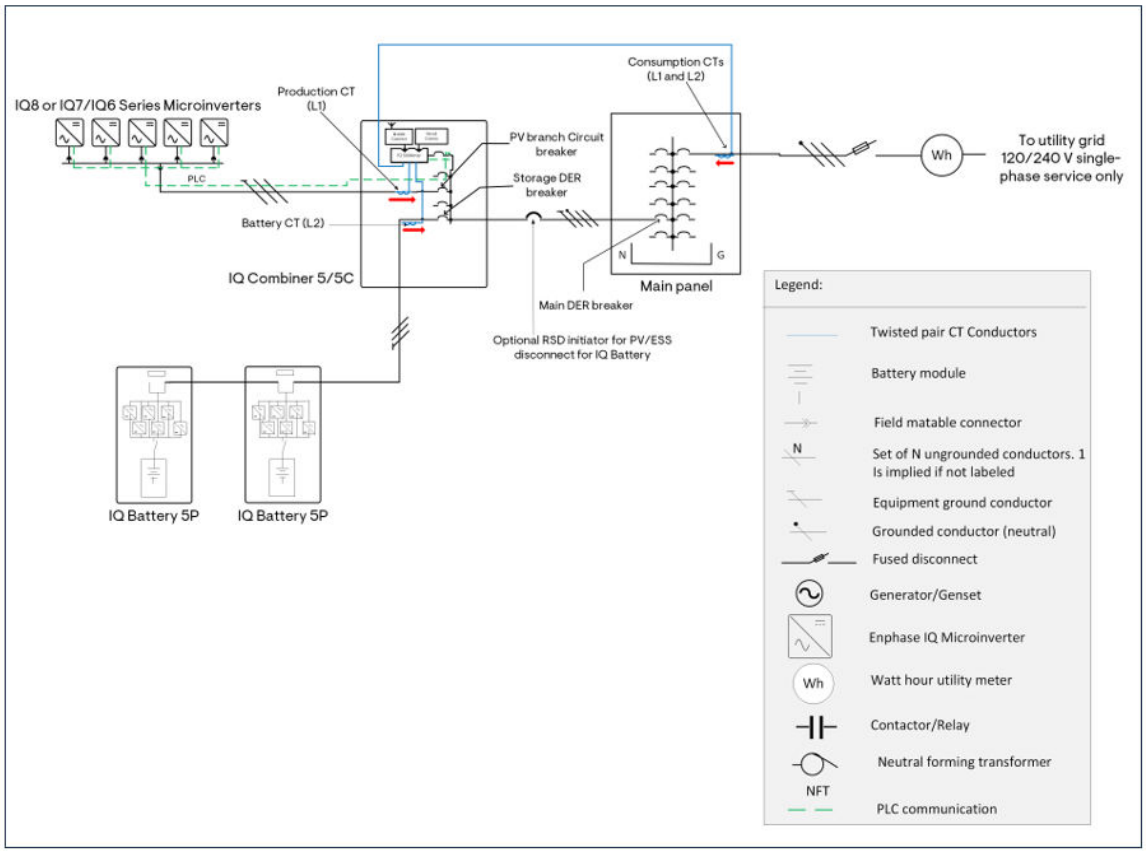
If the IQ Combiner is readily accessible:

- The PV branch circuit breaker inside the IQ Combiner can act as the PV rapid shutdown device (RSD) as specified in 2023 NEC 690.12.
- The battery breakers (in the IQ Combiner or an electrical panel) can act as the Enphase Energy System (ESS) disconnecting means as specified in 2023 NEC 706.15.

Suppose the IQ Combiner is not readily accessible. In that case, the main DER breaker in the main panel can also act as the rapid shutdown device, and the ESS disconnecting means that the main panel is readily accessible.

If the IQ Combiner and the main panel are not readily accessible, an additional disconnect may be installed as the RSD device and ESS disconnecting means.

NOTE: IQ Combiner 3/3C/3-ES/3C-ES/4/4C/5/5C provides the facility to lock the enclosure to enable compliance with 2023 NEC 690.13, which specifies requirements for photovoltaic system disconnecting means.

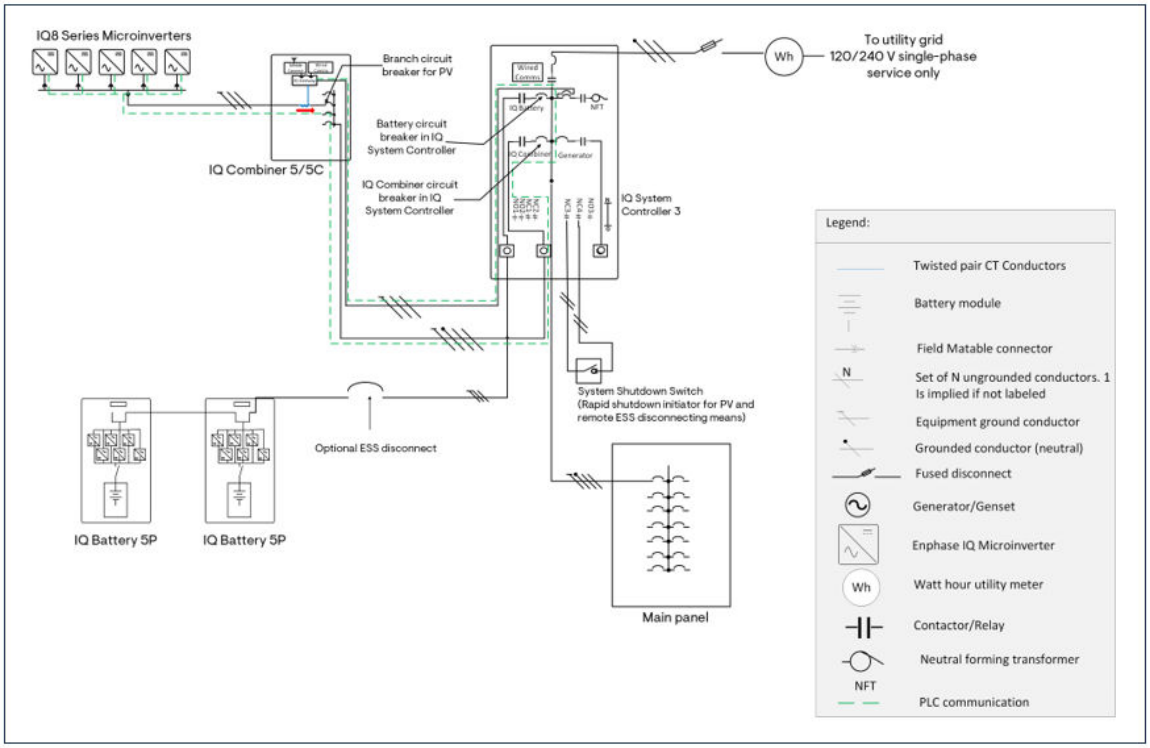


NOTE: The circuit diagrams in the document only show system components relevant to rapid shutdown or energy storage system disconnect. For complete single-line diagrams, refer to the Enphase Energy System planning guide.

NOTE: The circuit diagrams in the document only show IQ Combiner 5/5C, IQ System Controller 3, and IQ Battery 5P. However, the notes are applicable to systems with IQ Combiner 4/4C, IQ System Controller 2, IQ System Controller 3G, and IQ Battery 3T/10T.

2.5.2 Grid-forming systems (with backup)

The site can install a System Shutdown Switch near the IQ System Controller, acting as an ESS disconnecting means. If the System Shutdown Switch is missing, the ESS breaker inside the IQ System Controller can also be the disconnecting means. The IQ System Controller enclosure provides a means for locking.



NOTE: The circuit diagrams in the document only show system components relevant to rapid shutdown or energy storage system disconnect. For complete single-line diagrams, refer to the Enphase Energy System planning guide.

NOTE: The circuit diagrams in the document only show IQ Combiner 5/5C, IQ System Controller 3, and IQ Battery 5P. However, the notes are applicable to systems with IQ Combiner 4/4C, IQ System Controller 2, IQ System Controller 3G, and IQ Battery 3T/10T.

2.5.3 A circuit breaker lockout device as a means of locking

In situations where an enclosure lockout is not acceptable by Authorities Having Jurisdiction (AHJs), an aftermarket circuit breaker lockout device provides a reliable alternative. This device securely locks the circuit breaker in the "off" position, that is, the open position, preventing accidental or unauthorized re-energization. It is designed to fit various breaker types and sizes, ensuring compatibility and ease of use. Physically blocking the switch, enhances safety during maintenance or emergencies. These can help when using the DER breaker as a rapid shutdown initiator in a grid-tied system or ESS breakers as ESS disconnecting means in grid-tied or grid-forming systems.

Here are a few examples:

- https://www.eaton.com/us/en-us/skuPage.BRLWCS.html
- https://www.lockoutsafety.com/product/master-lock-grip-tight-circuit-breaker-lockout/

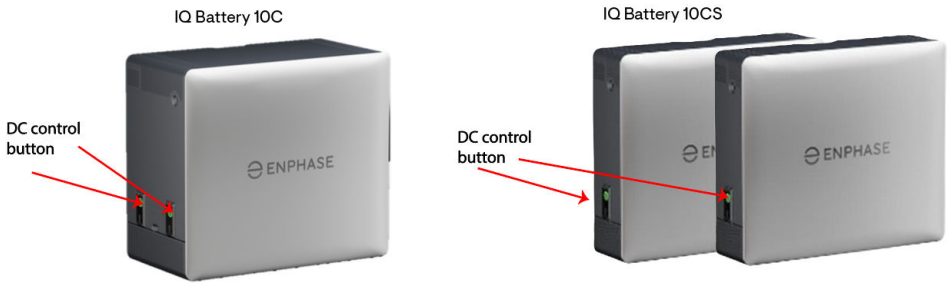
2.6 IQ Battery shutdown procedure

The IQ Battery can be shut down by turning OFF the DC switch on the product. In older generations of the product, the DC switch (rotary mechanism) of the product was inside the IQ Battery cover, and

in new generations (IQ Battery 5P and 10C/10CS), it can be accessed directly (in the form of a press button).

2.6.1 IQ Battery 10C/10CS shutdown procedure

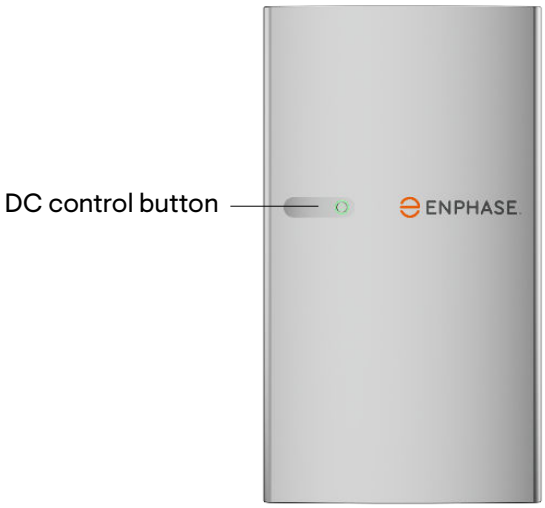
Each IQ Battery 10C/10CS consists of two DC control buttons. Press both DC control buttons and turn the ESS breaker to OFF. The LED around the switch should turn OFF to indicate that the battery is powered off.



The battery storage DER breaker can act as the ESS disconnecting means specified in the 2023 NEC 706.15. If the battery storage DER breaker is not accessible or safe to operate, the AC mains DER breaker can be used as a disconnecting means for isolating the product. The storage DER breaker should be installed inside the IQ Combiner 6C box.

2.6.2 IQ Battery 5P shutdown procedure

Press the IQ Battery 5P DC control button and turn the ESS DER breaker OFF. The LED around the switch should turn OFF to indicate that the battery is powered off.



The battery storage DER breaker can act as the ESS disconnecting means as specified in the 2023 NEC 706.15. If the battery storage DER breaker is not accessible or safe to operate, the AC mains DER breaker can be used as a disconnecting means for isolating the product. The storage DER breaker should be installed inside the IQ Combiner box or the IQ System Controller. A System Shutdown Switch may also be installed for some sites as the ESS disconnecting or remote actuation means.

2.6.3 IQ Battery 3, 10, 3T, and 10T shutdown procedure

To shutdown IQ Battery 3, 10, 3T, and 10T:

- Remove the IQ Battery cover. Refer to the instructions on removing the cover of the IQ Battery 3/10 or 3T/10T, based on the applicable model.
- Locate the DC switch(es) on the front side of the IQ Battery and turn them to the OFF position.

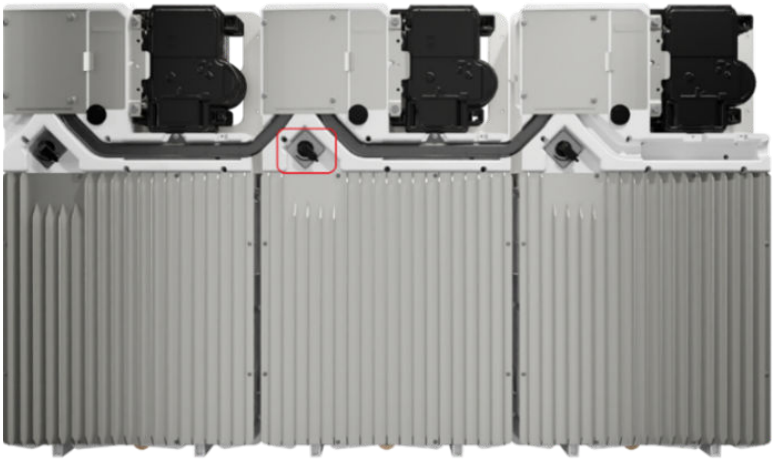


Figure 6: One of the three DC switches on IQ Battery 10T

- Rotate the switch to the OFF position to de-energize the battery.

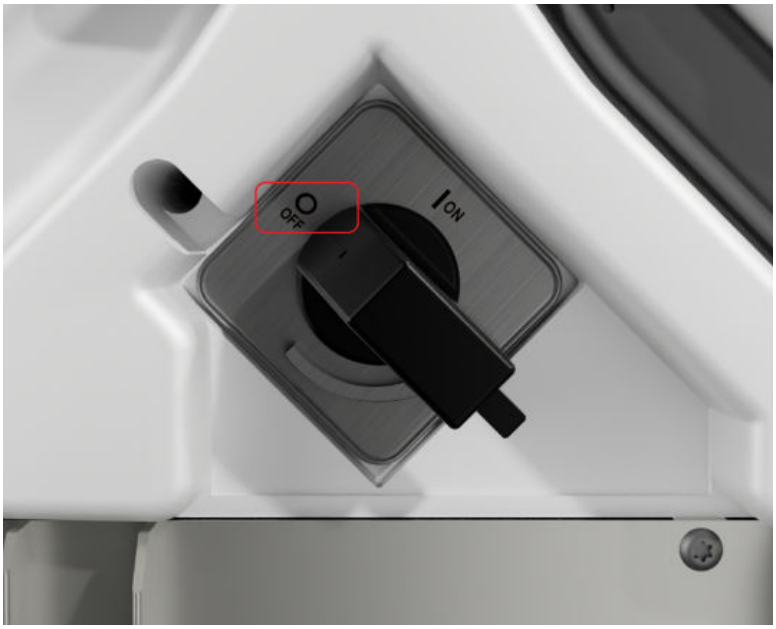


Figure 7: DC switch in OFF position

- Turn the ESS DER breaker to the OFF position. The LED around the switch should turn off to indicate that the battery is powered OFF.

3. Emergency situation response

In all emergencies, homeowners should follow the steps mentioned below:

- Evacuate the area.
- Contact your area's fire department or other required emergency response team, such as 911.
- Contact Enphase Support (Emergency contact details on page 20) for further assistance.

In all emergencies, the emergency response team can follow the activities mentioned below:

- Wear personal protective equipment highlighted in section 4 and a self-contained breathing apparatus (SCBA).
- Evacuate and ventilate the area without causing any sparks, as the venting gases may catch fire.
- Announce the presence, extent of involvement, and any potential risks of alternate energy sources such as IQ Battery or Enphase solar microinverter during the size-up.
- If safe, initiate an emergency shutdown of the IQ Battery system as per the details given in the IQ Battery shutdown procedure on page 14.

3.1 In case of unusual noise, smell, or smoke

- Ensure nothing is in contact with the IQ Battery(ies) or in the ventilation clearance area around the IQ Battery(ies). Ventilate the room.
- If safe, initiate an emergency shutdown of the IQ Battery system as per the details given in the IQ Battery shutdown procedure on page 14.

3.2 In case of a thermal event

In case of IQ Battery on fire, the emergency response team should:

- Follow the emergency response applicable for all emergencies as given in Emergency situation response on page 17.
- Wear appropriate PPE and use a broken stream from the initial attack line deployed to extinguish the fire. Additional extinguishing media include fire extinguishers. Just be aware that the fire extinguisher will only help with any fire surrounding the lithium battery pack. It will be ineffective in extinguishing the fire within a lithium battery pack. However, this will attempt to contain excessive heat exposure from the burning battery pack. If there is any off-gassing from the battery after exposure to water, immediately ventilate the area using positive pressure ventilation with an intrinsically safe electric fan.
- Keep monitoring the temperature with thermal imaging and ensure the internal temperature is below 176°F (80°C). Intermittently, cool the battery if needed with the same initial attack line using a broken stream.
- Use a thermal imaging camera to ensure the battery does not generate heat for the initial hour after the fire has been extinguished, and then have a qualified person inspect the battery for electrical hazards before removing it.

In case there is a structural fire or fire within the vicinity surrounding an IQ Battery at the site, and the battery is not consumed by flames:

- Follow the emergency response applicable for all emergency situations as given in Emergency situation response on page 17.

- Stay clear of any gases coming from the battery and the fire.
- Wear appropriate PPE and extinguish the fire with the initial fire attack line. If the battery was exposed to heat from the flames, cool the battery with the same line using a broken stream.
- Keep monitoring the temperature for 24 hours with thermal imaging and ensure that the temperature of the IQ Battery is below 176°F (80°C).
- Contact Enphase Support (Emergency contact details on page 20) for further guidance.

3.3 In case of flooding

- Do not touch the battery; have a qualified person evaluate the unit for electrical hazards.
- If possible, protect the system by finding and stopping the source of the water and pumping it away.
- If possible, disconnect all power to the home at the main breaker.
- 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 thoroughly before use.

3.4 In case of electrolyte spillage

- Keep all persons and animals away from the spill area to a minimum distance of 25 m to avoid breathing vapors and wear appropriate PPE if you are working in the contaminated area.
- Ensure adequate ventilation and if needed ventilate using positive pressure ventilation using an intrinsically safe electric fan.
- 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.
- If safe, remove any items surrounding the spill area to avoid contamination.

4. Personal protective equipment

The following personal protective equipment should be worn if the IQ Battery 5P is mechanically, thermally, or electrically abused to the point where the protective case is damaged, posing a risk of electrolyte exposure.

- **Skin/Body protection**: Wear closed-toe shoes, chemical-resistant overalls, and protective over boots. Firefighters should wear structural firefighting gear to protect themselves from heat, flames, and potential chemical exposure.
- **Respiratory protection**: Wear a self-contained breathing apparatus (SCBA). Batteries can release toxic fumes and gases when damaged, so respiratory system protection is crucial for firefighter safety.
- **Gloves**: 15-millimeter nitrile rubber gloves. Nitrile gloves provide immersion protection when worn over laminated film barrier gloves (Ansell Barrier 2-100 or equivalent).
- **Eye/face protection**: Wear protective eye and face gear, such as chemical splash goggles and a face shield, to prevent exposure to the eyes and face.

5. Risky scenarios associated with the IQ Battery

The Enphase IQ Battery has been designed to safeguard itself against various events occurring around it. However, like any lithium-ion battery, it can pose dangers if mishandled, damaged, or improperly installed. Following manufacturer guidelines for use and storage is essential for safety.

5.1 Risk associated with exposure to high temperature

The IQ Battery is designed to withstand temperatures of up to 176°F (80°C) for a short duration without affecting its health; however, prolonged exposure may result in product damage.

During use, when stored, or during transport, keep the IQ Battery(ies) in an area that is specific clearances required for cooling purposes 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. While installing for use, avoid direct sunlight to ensure the temperature stays in the optimal operating range. This ensures charging and discharging currents will not be 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.

5.2 Risk associated with exposure to a physically damaged battery

IQ Battery contains an LFP battery module that, when subjected to damage through puncture, piercing, crushing, forced heating, or dropping from height, etc., can lead to multiple issues such as:

- Electrolyte leakage
- Uncontrolled heating of cells due to an exothermic reaction followed by thermal runaway
- Venting of gases
- Fire or explosion

Physically damaged batteries can lead to exposed conductors, creating a risk of electric shock. It is always recommended to carefully follow all the handling instructions provided in product documentation while dealing with storage and installation.

5.3 Risk of exposure to venting gases from the battery

Each IQ Battery has vent holes provided at the bottom towards the wall side. Under normal circumstances, it is unlikely for the LFP battery to heat up and vent gases. In rare cases where the batteries are mechanically, thermally, or electrically abused to the point of compromising their integrity, it may produce gas. This gas is expected to vent from these holes to relieve pressure inside the casing. The gases consist of a mixture of flammable and non-flammable gases. Vented gases are early signs of potential thermal runaway – a hazardous situation.

Proximity to these gases can lead to temporary eye irritation or burning, skin irritation, and respiratory irritation. Sometimes, these gases can be hot and pose a risk of fire hazard.

5.4 Risk of exposure to the leaking electrolyte from the battery

The IQ Battery has an LFP cell containing organic electrolytes sealed in a protective case. The risk of exposure occurs only if the cell is mechanically, thermally, or electrically abused to the point of compromising the protective case. If an individual comes in contact with electrolyte leaking from the battery, they may experience eye irritation or burning, skin irritation, and respiratory irritation.

5.5 Risk of IQ Battery installation when exposed to flooding

If the installation site is flooded, do not touch the battery. Have a qualified person evaluate the battery for any electrical hazards before handling the battery.

6. Emergency contact details

The emergency response team can contact Enphase Support (https://enphase.com/contact/support) for any additional information required during the event or for general queries. The emergency response team should have basic details about the site, such as Enphase equipment installed at the site, its layout photos, and details on which components are involved in the event.

In an emergency, contact the numbers listed in the following table.

Table 1: Emergency contact details

Country	Enphase Support numbers	Local emergency fire department
Australia	1800 006 374	000
Austria	+43 (0)720115456	122
Belgium FR	+32 (0) 2 588 54 69	112
Belgium NL	+32 (0)7 848 2728	112
Brazil	(19) 4560-1844	193
Canada	(877) 797-4743	911
France	+33 (0) 97 0731076	112 or 118
Germany	+49 (0) 89 38037726	112
India	1800 309 3765	101
Italy	+39 800 593 838	115
Mexico	(877) 797-4743	911
Netherlands	+31 (0)85 20 823 05	112
New Zealand	09 887 0421	111

Country	Enphase Support numbers	Local emergency fire department
Poland	+48 22 104 60 79	998 or 112
Puerto Rico	(877) 797-4743	911
South Africa	087 550 2305	10 177
Spain	+34 91 123 40 17	112
Switzerland DE	+41 (0)43 588 0565	118
Switzerland FR	+41 (0)43 588 0565	118
Switzerland IT	+39 800 593 838	118
Thailand	+66 2506 1917	199
United Kingdom	+44 330 808 8522	999 or 112
United States	(877) 797-4743	911

7. Regional office contact details

North America (For all NA regions, use (833) 963-3820)	
Fremont, California	Enphase Energy, Inc. 47281 Bayside Pkwy., Fremont, CA 94538.
Petaluma, California	Enphase Energy, Inc.1 420 N. McDowell Blvd. Petaluma, CA 94954
Austin, Texas	Enphase Energy, Inc. 1835 Kramer Ln. Building B Suite 125, Austin, TX 78758
Meridian, Idaho	Enphase Energy, Inc. 1819 S. Cobalt Point Way Meridian, ID 83642
Europe	
‘s -Hertogenbosch, The Netherlands	Enphase Energy NL B.V. Het Zuiderkruis 65, 5215 MV, ‘s -Hertogenbosch, The Netherlands, Tel: +31 73 3035859
Lyon, France	Enphase Energy SAS Hub 2, 2ème étage 905 rue d’Espagne, BP 128 69125 Aéroport Lyon Saint Exupéry, France, Tel: +33 (0)4 74 98 29 56

Europe	
Freiburg, Germany	Enphase Energy Germany GmbH Fahnenbergplatz 1, 79098 Freiburg, Germany, Tel: +49 (0) 761 887 89033
APAC	
Shanghai, China	Enphase Energy Room 32D, No.18 North Caoxi Road Xuhui District, Shanghai, China 200030, Tel: +86 21-64686815
Melbourne, Australia	Enphase Energy Australia Pty. Ltd. 88 Market Street, South Melbourne VIC 3205 Australia, Tel: +61 (0)3 8669 1679
Christchurch, New Zealand	1 Treffers Road Wigram, Christchurch, Enphase Energy NZ Ltd. New Zealand, Tel: +64 (0)9 887 0421
Bangalore, India	Enphase Solar Energy Pvt. Ltd. IndiQube Golf View Homes, Ward No.73 Airport, NAL Wind Tunnel Main Road, Murugeshpalaya, Bangalore-560 017, India, Tel: +91-80-6117-2500

8. Site monitoring

Damaged cells/batteries can cause rapid heating, release of flammable gases, and self-heating reactions. It is advisable to wait 24 hours before attempting to handle or transport a damaged product to check for potential thermal reactions. If no problems are detected during this monitoring period, the product may be relocated to a secure area after being disconnected. Consider the following criteria for batteries falling into a damaged, defective, and recalled (DDR) category.

- **Visual Identifications:**
  - Acute hazards include gas, fire, or noticeable leaking electrolytes, that have already leaked.
  - The battery or cell has vented, leading to the acute hazard of expelling gases, or has already vented.
  - One or more cells have had a thermal event.
  - The cell or battery is physically damaged, as evidenced by punctures, dents, or crushing of the component battery cells.
  - Wires are broken and exposed, increasing the likelihood of a short circuit.

- **Other Scenarios**: It is suspected to be damaged or defective, but cannot be diagnosed before transport. Batteries that belong to the DDR category describe critical guidelines in terms of packaging and transportation. These guidelines may be country-specific. Contact Enphase Support for guidance if the disposal is required during a damaged, depleted, or electrolyte-leaking battery.
  - When disposing of the product, always follow local, state, and federal regulations regarding disposal requirements.
  - While recycling the product, always follow local, state, and federal regulations on recycling requirements.
  - In European Union member nations, the product must be disposed of as per EU Battery and WEEE directives.

9. First-aid measures

If the battery is physically damaged, an electrolyte is leaked, and the person(s) are exposed, the following initial care should be taken:

- Move victims from a dangerous area to an area with fresh air.
- Show the product safety data sheet to the medical professionals in attendance.
- Quickly transport the victim to emergency care during eye contact, skin irritation, ingestion, or inhalation.

If you contact with electrolytes or gases coming out of the battery, it is recommended to follow these additional instructions along with the advice mentioned above:

- **Eye contact**: Immediately flush the eyes with clean water for at least 15 minutes without rubbing. If appropriate procedures are not taken, this may cause eye irritation. Seek medical attention if eye irritation persists.
- **Skin contact**: Immediately remove all contaminated clothing and wash before reusing. Rinse your skin with water. If appropriate procedures are not taken, this may cause skin irritation. Seek medical attention if skin irritation occurs.
- **Inhalation contact**: Move victims to an area with fresh air immediately and remove the source of contamination from the affected area. Seek medical attention.
- **Ingestion**: Have the victim rinse their mouth thoroughly with water. Seek medical attention.

10. Revision history

Revision	Date	Description
TEB-00190-2.0	May 2025	Added IQ Battery 10C/10CS content.
TEB-00190-1.0	October 2024	Initial release.