

INSTALLATION MAP

To Sheet / A la hoja de:

Panel Group:

Tilt/Inclinación:

Sheet \_\_\_\_ of \_\_\_\_

Customer:

Installer:

N S E W

|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
|   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| A |   |   |   |   |   |   |   |   |   |
| B |   |   |   |   |   |   |   |   |   |
| C |   |   |   |   |   |   |   |   |   |
| D |   |   |   |   |   |   |   |   |   |
| E |   |   |   |   |   |   |   |   |   |
| F |   |   |   |   |   |   |   |   |   |
| G |   |   |   |   |   |   |   |   |   |
| H |   |   |   |   |   |   |   |   |   |
| J |   |   |   |   |   |   |   |   |   |
| K |   |   |   |   |   |   |   |   |   |
| L |   |   |   |   |   |   |   |   |   |
| M |   |   |   |   |   |   |   |   |   |

Scan completed map and upload it to Enphase. Click “Add a New System” at <https://enphase.com/installers/apps>.

Gateway Serial Number Label

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Enphase Customer Support: [enphase.com/contact/support](https://enphase.com/contact/support)

QUICK INSTALL GUIDE



Install the IQ8 Series Microinverter

To install IQ8 Series Microinverters, read and follow all warnings and instructions in this guide and in the IQ8 Series Microinverter installation and operation manual at <https://enphase.com/contact/support>. Safety warnings are listed in this guide.

The Enphase microinverter models listed in this guide do not require grounding electrode conductors (GEC), equipment grounding conductors (EGC), or grounded conductor (neutral). The microinverter has a Class II double-insulated rating, which includes ground fault protection (GFP). To support GFP, use only PV modules equipped with DC cables labeled PV Wire or PV Cable.

IMPORTANT: IQ8 Series Microinverters require the IQ Cable. An IQ Gateway is required to monitor the performance of the IQ Microinverters. The IQ accessories work only with IQ8 Series Microinverters.

**NOTE:** 1) After you log in to your Enphase Account from the Enphase Installer App, Scan the microinverter serial numbers (1D bar code) and connect to the IQ Gateway to track the system installation progress.

2) Installer must check the manufacturing date of the products to ensure that the installation date is within one year of the manufactured date of the products. Contact the local distributor to validate the date code.

PREPARATION

- A) Download the Enphase Installer App and open it to log in to your Enphase Account. With this app, scan microinverter serial numbers (1D bar code) and connect to the IQ Gateway to track system installation progress. To download, go to <https://enphase.com/installers/apps> or scan the QR code.
- 

- B) Refer to the following table and check PV module electrical compatibility at: [enphase.com/support/module-compatibility](https://enphase.com/support/module-compatibility).

| Model                                           | DC connector      | Typical PV module* cell count                                      |
|-------------------------------------------------|-------------------|--------------------------------------------------------------------|
| IQ8-60-2-US                                     | MC-4 locking type | Pair with 60-cell/120-half-cell modules                            |
| IQ8PLUS-72-2-US<br>IQ8M-72-2-US<br>IQ8A-72-2-US | MC-4 locking type | Pair with 60-cell/120-half-cell, 66-cell, or 72 cell/144-half-cell |
| IQ8H-240-72-2-US<br>IQ8H-208-72-2-US            | MC-4 locking type | Pair with 60-cell/120-half-cell, 66-cell, or 72-cell/144-half-cell |

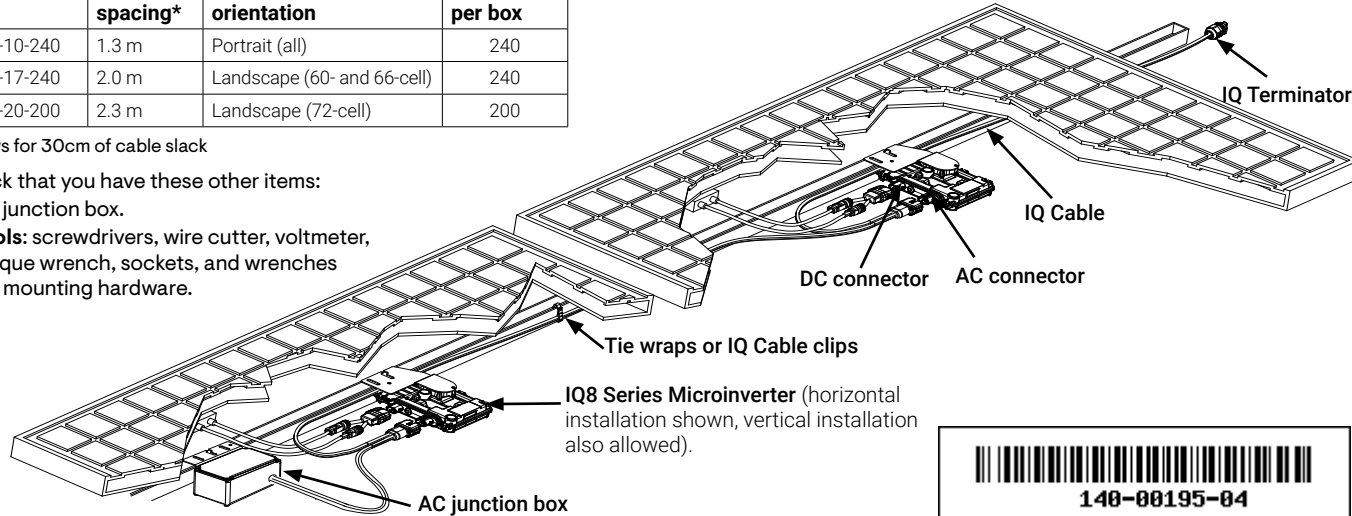
\* IQ8 Series Microinverters are compatible with bi-facial PV modules if the temperature-adjusted electrical parameters (maximum power, voltage, and current) of the modules, considering the front side electrical parameters (i.e., 0% back side gain), are within the allowable microinverter input parameters range.

- C) In addition to the Enphase Microinverters, PV modules and racking, you will need these IQ8 Series Microinverters:
- IQ Gateway (model ENV-IQ-AM1-240) communications gateway or IQ Combiner (check [enphase.com](https://enphase.com) for models): is required to monitor solar production.
  - Tie wraps or cable clips (Q-CLIP-100).
  - IQ Sealing Caps (Q-SEAL-10): for any unused connectors on the IQ Cable.
  - IQ Terminator (Q-TERM-10): one needed at the end of each AC cable segment.
  - IQ Disconnect Tool (Q-DISC-10)
  - IQ Cable:

| Cable model | Connector spacing* | PV module orientation       | Connectors per box |
|-------------|--------------------|-----------------------------|--------------------|
| Q-12-10-240 | 1.3 m              | Portrait (all)              | 240                |
| Q-12-17-240 | 2.0 m              | Landscape (60- and 66-cell) | 240                |
| Q-12-20-200 | 2.3 m              | Landscape (72-cell)         | 200                |

\*Allows for 30cm of cable slack

- D) Check that you have these other items:
- AC junction box.
  - Tools:** screwdrivers, wire cutter, voltmeter, torque wrench, sockets, and wrenches for mounting hardware.



- E) Protect your system with lightning and/or surge suppression devices. It is also important to have insurance that protects against lightning and electrical surges.

- F) Check compatibility when expanding an IQ7 system with IQ8 Microinverters:
- IQ8 Series Microinverters can be added to existing IQ7 systems on the same IQ Gateway in the following grid-tied configuration only:
    - i) Solar Only
    - ii) Solar + Battery (IQ Battery 3T/10T and IQ Battery 5P) without backup
  - IQ7 Series Microinverters cannot be added on a site with existing IQ8 Series Microinverters on the same gateway. Mixed system of IQ7, IQ8 will not support IQ8 specific PCS features and grid-forming capabilities.
  - If IQ7 Microinverters need to be added on a site on the same gateway where IQ8 Microinverters are present, then IQ8 Microinverters need to be retired and recommissioned after commissioning the IQ7 Microinverters.
  - Addition of IQ8 Series Microinverters to existing IQ7 systems with IQ System Controller is not supported, if added on the same IQ Gateway.

- G) Plan your AC branch circuits to meet the following limits for the maximum number of microinverters per branch when protected with a 20-amp over-current protection device (OCPD).

| Maximum* IQ8 Series Microinverters per AC branch circuit (single-phase) |              |              |              |              |              |
|-------------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|
| IQ8 (240 V)                                                             | IQ8+ (240 V) | IQ8A (240 V) | IQ8H (240 V) | IQ8H (208 V) | IQ8M (240 V) |
| 16                                                                      | 13           | 11           | 10           | 9            | 11           |

\* Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

**NOTE:** For a mixed system containing both IQ7 and IQ8 Microinverters on the same branch, ensure that the total maximum continuous output current of all microinverters on the branch does not exceed 16 A.



H) Size the AC wire gauge to account for voltage rise. Select the correct wire size based on the distance from the beginning of the IQ Cable to the breaker in the load center. Design for a voltage rise total of less than 2% for these sections. Refer to the Voltage Rise Technical Brief at <https://enphase.com/contact/support> for more information.

**Best practice:** Center-feed the branch circuit to minimize voltage rise in a fully-populated branch.

## INSTALLATION

### 1 Position the IQ Cable

- Plan each cable segment to allow connectors on the IQ Cable to align with each PV module. Allow extra length for slack, cable turns, and any obstructions.
- Mark the approximate centers of each PV module on the PV racking.
- Lay out the cabling along the installed racking for the AC branch circuit.
- Cut each segment of cable to meet your planned needs.



**WARNING:** When transitioning between rows, secure the cable to the rail to prevent cable or connector damage. Do not count on the connector to withstand tension.

### 2 Position the junction box

- Verify that AC voltage at the site is within range:

| Service type and voltage: L1 - L2 |                |
|-----------------------------------|----------------|
| 240 V single-phase                | 211 to 264 VAC |
| 208 V single-phase                | 183 to 229 VAC |

- Install a junction box at a suitable location on the racking.
- Provide an AC connection from the junction box back to the electricity network connection using equipment and practices as required by local jurisdictions.

### 3 Mount the Microinverters

- Mount the microinverter horizontally bracket side up or vertically. Always place it under the PV module, protected from direct exposure to rain, sun, and other harmful weather events. Allow a minimum of 1.9 cm (3/4") between the roof and the microinverter. Also, allow 1.3 cm (1/2") between the back of the PV module and the top of the microinverter.

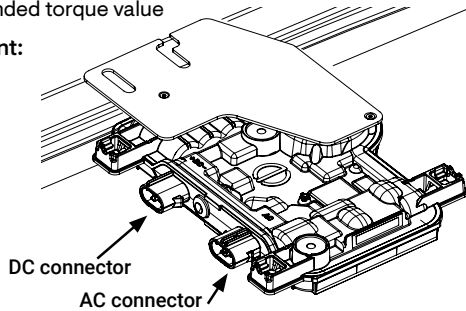
For vertical mount, also maintain >30 cm (12") clearance from the edges of the PV module to protect the microinverter from direct exposure to rain, UV, and other harmful weather events.



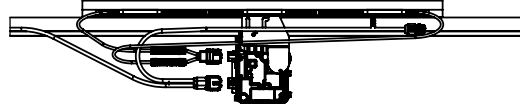
**WARNING:** Install the microinverter under the PV module to avoid direct exposure to rain, UV, and other harmful weather events. Do not mount the microinverter upside down.

- Torque the mounting fasteners (1/4-inch or 5/16-inch) as follows. Do not over-torque.
  - 6 mm (1/4 inches) mounting hardware: 5 N m (45 to 50 in-lbs)
  - 8 mm (5/16 inches) mounting hardware: 9 N m (80 to 85 in-lbs)
- When using UL 2703 mounting hardware, use the manufacturer's recommended torque value

Horizontal mount:



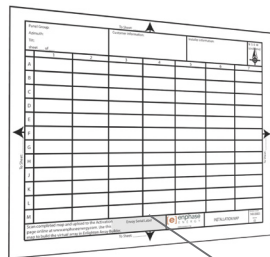
Vertical mount:



### 4 Manage the Cabling

Create a paper installation map to record microinverter serial number and position in the array.

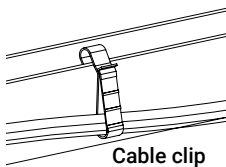
- Peel the removable serial number label from each microinverter and affix it to the respective location on the paper installation map.
- Peel the label from the IQ Gateway and affix it to the installation map.
- Always keep a copy of the installation map for your records. Loops smaller than 12 cm (4.75 inches) in diameter.



Affix serial number labels

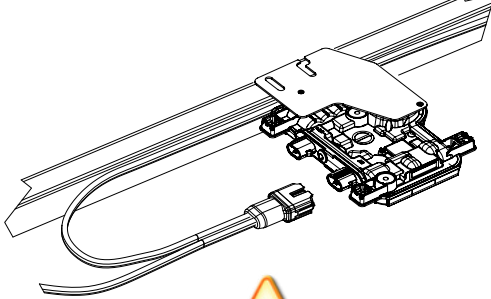
### 5 Manage the Cabling

- Use cable clips or tie wraps to attach the cable to the racking. The cable must be supported at least every 1.8 m (6 feet).
- Dress any excess cabling in loops so that it does not contact the roof. Do not form loops smaller than 12 cm (4.75 inches) in diameter.



### 6 Connect the Microinverters

- Connect the microinverter. Listen for a click as the connectors engage.
- Cover any unused connectors on the AC cable with IQ Sealing Caps. Listen for a click as the sealing caps engage.



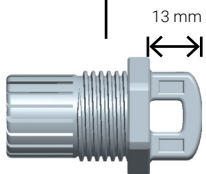
**WARNING:** Install sealing caps on all unused AC connectors as these connectors become live when the system is energized. Sealing caps are required for protection against moisture ingress.

To remove a sealing cap or AC connector, you must use an IQ Disconnect Tool.

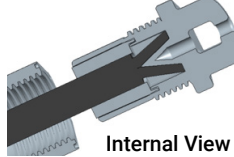
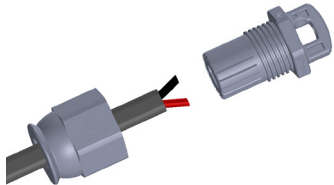
### 7 Terminate the unused end of the cable

- Remove 13 mm (1/2") of the cable sheath from the conductors. Use the terminator loop to measure.

Terminator body



- Slide the hex nut onto the cable.
- Insert the cable into the terminator body so that each of the two wires lands on opposite sides of the internal separator. There is a grommet inside of the terminator body that should remain in place.
- Insert a screwdriver into the slot on the top of the terminator to



hold it in place, and torque the nut to 7 N m.

- Hold the terminator body stationary with the screwdriver and turn only the hex nut to prevent the conductors from twisting out of the separator.



- Attach the terminated cable end to the PV racking with a cable clip or tie wrap so that the cable and terminator do not touch the roof.



**WARNING:** The terminator can not be re-used. If you unscrew the nut, you must discard the terminator.

### 8 Complete Installation of the junction box

- Connect the IQ Cable to the junction box.
- The IQ Cable uses the following wiring color code:

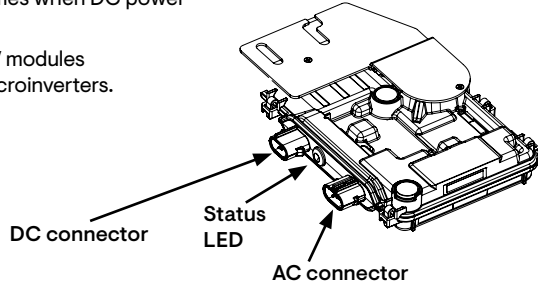
| Wire colors |
|-------------|
| Black – L1  |
| Red – L2    |

### 9 Connect the PV modules



**DANGER!** Electric shock hazard. The DC conductors of this PV system are ungrounded and may be energized.

- If required, attach the Enphase DC bulkhead adapters to the microinverters. Make sure they are fully seated. Do not reverse the adapter connections.
- Connect the DC leads of each PV module to the DC input connectors or adapters of the microinverter.
- Check the LED on the connector side of the microinverter. The LED flashes six times when DC power is applied.
- Mount the PV modules above the microinverters.



### 10 Energize the System

- Turn ON the AC disconnect or circuit breaker for the branch circuit.
- Turn ON the main utility-grid AC circuit breaker. Your system will start producing power after a five-minute wait time.
- Check the LED on the connector side of the microinverter:

| LED             | Indicates                                                                                                                                                                                                            |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flashing green  | Normal operation. AC grid function is normal and there is communication with the IQ Gateway.                                                                                                                         |
| Flashing orange | The AC grid is normal but there is no communication with the IQ Gateway.                                                                                                                                             |
| Flashing red    | The AC grid is either not present or not within specification.                                                                                                                                                       |
| Solid red       | There is an active "DC Resistance Low, Power Off" condition. To reset, refer to the IQ Gateway installation and operation manual at: <a href="https://www.enphase.com/support">https://www.enphase.com/support</a> . |

## ACTIVATE MONITORING AND CONTROLS

After you have installed the microinverters, follow the procedures in the IQ Gateway quick install guide to activate system monitoring, set up grid management functions, and complete the installation.

- Connecting the IQ Gateway
- Detecting devices
- Connecting to Enphase Installer Platform
- Registering the system
- Building the virtual array

#### Enphase Connector rating

Enphase Connectors on the cable assemblies in the following table have a maximum current of 20 A, a maximum OCPD of 20 A, and maximum ambient temperature of -40°C to 79°C (-40°F to 174.2°F) and are rated for disconnection under load.

| Part Number | Model       | Maximum Voltage |
|-------------|-------------|-----------------|
| 840-00387   | Q-12-10-240 | 250 VAC         |
| 840-00388   | Q-12-17-240 | 250 VAC         |
| 840-00389   | Q-12-20-200 | 250 VAC         |
| 840-00385   | Q-DCC-2     | 100 VDC         |

### Revision history

| Revision     | Date          | Description                                                        |
|--------------|---------------|--------------------------------------------------------------------|
| 140-00195-04 | November 2024 | Updated IQ8 Microinverter compatibility with existing IQ7 systems. |

Previous releases.

## PV Rapid Shutdown Equipment (PVRSE)

This product is UL Listed as PV Rapid Shut Down Equipment and conforms with NEC-2014 and NEC-2017 section 690.12 and C22.1-2015 Rule 64-218 Rapid Shutdown of PV Systems, for AC and DC conductors, when installed according to the following requirements:

- Microinverters and all DC connections must be installed inside the array boundary. Enphase further requires that the microinverters and DC connections be installed under the PV module to avoid direct exposure to rain, UV, and other harmful weather events.
- The array boundary is defined as 305 mm (1 ft.) from the array in all directions, or 1 m (3 ft.) from the point of entry inside a building.

This rapid shutdown system must be provided with an initiating device and (or with) status indicator which must be installed in a location accessible to first responders, or be connected to an automatic system that initiates rapid shutdown upon the activation of a system disconnect or activation of another type of emergency system.

The initiator shall be listed and identified as a disconnecting means that plainly indicates whether it is in the "off" or "on" position. Examples are:

- Service disconnecting means
- PV system disconnecting means
- Readily accessible switch or circuit breaker

The handle position of a switch or circuit breaker is suitable for use as an indicator. Refer to NEC or CSA C22.1-2015 for more information.

Additionally, in a prominent location near the initiator device, a placard or label must be provided with a permanent marking including the following wording: 'PHOTOVOLTAIC SYSTEM EQUIPPED WITH RAPID SHUTDOWN' The term 'PHOTOVOLTAIC' may be replaced with 'PV.'

The placard, label, or directory shall be reflective, with all letters capitalized and having a minimum height of 9.5 mm (3/8 in.) in white on red background.

## SAFETY

**IMPORTANT SAFETY INSTRUCTIONS**  
SAVE THIS INFORMATION. This guide contains important instructions to follow during installation of the IQ8, IQ8+, IQ8A, IQ8H, and IQ8M Microinverters.

|  |                                               |
|--|-----------------------------------------------|
|  | <b>WARNING:</b> Hot surface.                  |
|  | <b>WARNING:</b> Refer to safety instructions. |
|  | <b>DANGER:</b> Risk of electric shock.        |
|  | Refer to manual                               |
|  | Double Insulated                              |

| Safety symbols |                                                                                                                                                                                          |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                | <b>DANGER:</b> Indicates a hazardous situation, which if not avoided, will result in death or serious injury.                                                                            |
|                | <b>WARNING:</b> Indicates a situation where failure to follow instructions may be a safety hazard or cause equipment malfunction. Use extreme caution and follow instructions carefully. |
|                | <b>WARNING:</b> Indicates a situation where failure to follow instructions may result in burn injury.                                                                                    |
|                | <b>NOTE:</b> Indicates information particularly important for optimal system operation.                                                                                                  |

#### General safety

|  |                                                                                                                                                                                           |
|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>DANGER:</b> 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. |
|  | <b>DANGER:</b> Risk of electric shock. Be aware that installation of this equipment includes risk of electric shock.                                                                      |
|  | <b>DANGER:</b> Risk of electric shock. The DC conductors of this photovoltaic system are ungrounded and may be energized.                                                                 |
|  | <b>DANGER:</b> Risk of electric shock. Always de-energize the AC branch circuit before servicing. Never disconnect the DC or AC connectors under load.                                    |
|  | <b>DANGER:</b> Risk of electric shock. Risk of fire. Only use electrical system components approved for wet locations.                                                                    |
|  | <b>DANGER:</b> Risk of electric shock. Risk of fire. Only qualified personnel should troubleshoot, install, or replace Enphase Microinverters or the IQ Cable and Accessories.            |

|  |                                                                                                                                                                                                                                                                     |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>DANGER:</b> Risk of electric shock. Risk of fire. Ensure that all AC and DC wiring is correct and that none of the AC or DC wires are pinched or damaged. Ensure that all AC junction boxes are properly closed.                                                 |
|  | <b>DANGER:</b> Risk of electric shock. Risk of fire. Do not exceed the maximum number of microinverters in an AC branch circuit as listed in this guide. You must protect each microinverter AC branch circuit with a 20 A maximum breaker or fuse, as appropriate. |
|  | <b>DANGER:</b> Risk of electric shock. Risk of fire. Only qualified personnel may connect the Enphase microinverter to the utility grid.                                                                                                                            |
|  | <b>WARNING:</b> Risk of equipment damage. Enphase male and female connectors must only be mated with the matching male/female connector.                                                                                                                            |
|  | <b>WARNING:</b> Before installing or using the Enphase microinverter, read all instructions and cautionary markings in the technical description, on the Enphase microinverter system, and on the photovoltaic (PV) equipment.                                      |
|  | <b>WARNING:</b> Do not connect Enphase Microinverters to the grid or energize the AC circuit(s) until you have completed all of the installation procedures and have received prior approval from the electrical utility company.                                   |
|  | <b>WARNING:</b> When the PV array is exposed to light, DC voltage is supplied to the PCE.                                                                                                                                                                           |
|  | <b>NOTE:</b> To ensure optimal reliability and to meet warranty requirements, install the Enphase microinverters and IQ Cable according to the instructions in this guide.                                                                                          |
|  | <b>NOTE:</b> Provide support for the IQ Cable at least every 1.8 m (6 feet).                                                                                                                                                                                        |
|  | <b>NOTE:</b> Perform all electrical installations in accordance with all applicable local electrical codes, such as the Canadian Electrical Code, Part 1 and NFPA 70 (NEC).                                                                                         |
|  | <b>NOTE:</b> Protection against lightning and resulting voltage surge must be in accordance with local standards.                                                                                                                                                   |

#### Microinverter safety

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>DANGER:</b> Risk of electric shock. Risk of fire. Do not attempt to repair the Enphase microinverter; it contains no user-serviceable parts. If it fails, contact Enphase customer service to obtain an RMA (return merchandise authorization) number and start the replacement process. Tampering with or opening the Enphase microinverter will void the warranty.                                                                                                                                                                                      |
|  | <b>DANGER:</b> Risk of fire. The DC conductors of the PV module must be labeled "PV Wire" or "PV Cable" when paired with the Enphase microinverter.                                                                                                                                                                                                                                                                                                                                                                                                          |
|  | <b>WARNING:</b> You must match the DC operating voltage range of the PV module with the allowable input voltage range of the Enphase microinverter.                                                                                                                                                                                                                                                                                                                                                                                                          |
|  | <b>WARNING:</b> The maximum open circuit voltage of the PV module must not exceed the specified maximum input DC voltage of the Enphase microinverter.                                                                                                                                                                                                                                                                                                                                                                                                       |
|  | <b>WARNING:</b> Refer to the Enphase Compatibility Calculator at: <a href="https://enphase.com/en-us/support/module-compatibility">https://enphase.com/en-us/support/module-compatibility</a> to verify PV module electrical compatibility with microinverter. Use IQ8 Series Microinverters only with compatible PV modules as per Enphase compatibility calculator. Using electrically incompatible PV module voids Enphase warranty.                                                                                                                      |
|  | <b>WARNING:</b> Risk of equipment damage. Install the microinverter under the PV module to avoid direct exposure to rain, UV, and other harmful weather events. Always install the microinverter bracket side up. Do not mount the microinverter upside down. Do not expose the AC or DC connectors (on the IQ Cable connection, PV module, or the microinverter) to rain or condensation before mating the connectors.                                                                                                                                      |
|  | <b>WARNING:</b> Risk of equipment damage. The Enphase microinverter is not protected from damage due to moisture trapped in cabling systems. Never mate microinverters to cables that have been left disconnected and exposed to wet conditions. This voids the Enphase warranty.                                                                                                                                                                                                                                                                            |
|  | <b>WARNING:</b> Risk of equipment damage. The Enphase microinverter functions only with a standard, compatible PV module with appropriate fill-factor, voltage, and current ratings. Unsupported devices include smart PV modules, fuel cells, wind or water turbines, DC generators, and non-Enphase batteries, etc. These devices do not behave like standard PV modules, so operation and compliance is not guaranteed. These devices may also damage the Enphase microinverter by exceeding its electrical rating, making the system potentially unsafe. |

|  |                                                                                                                                                                                                                                                                                                                                      |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>WARNING:</b> Risk of skin burn. The chassis of the Enphase microinverter is the heat sink. Under normal operating conditions, the temperature could be 20°C above ambient, but under extreme conditions the microinverter can reach a temperature of 90°C. To reduce risk of burns, use caution when working with microinverters. |
|  | <b>NOTE:</b> The Enphase microinverter has adjustable voltage and frequency trip points that may need to be set within grid profile, depending upon local requirements. Contact Enphase Support to request a new custom grid profile if there is no pre-existing grid profile meeting local AHJ requirements.                        |

#### IQ Cable safety

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>DANGER:</b> Risk of electric shock. Do not install the IQ Terminator while power is connected.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|  | <b>DANGER:</b> Risk of electric shock. Risk of fire. When stripping the sheath from the IQ Cable, make sure the conductors are not damaged. If the exposed wires are damaged, the system may not function properly.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|  | <b>DANGER:</b> Risk of electric shock. Risk of fire. Do not leave AC connectors on the IQ Cable uncovered for an extended period. You must cover any unused connector with a sealing cap.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|  | <b>DANGER:</b> Risk of electric shock. Risk of fire. Make sure protective sealing caps have been installed on all unused AC connectors. Unused AC connectors are live when the system is energized.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|  | <b>WARNING:</b> Use the terminator only once. If you open the terminator following installation, the latching mechanism is destroyed. Do not reuse the terminator. If the latching mechanism is defective, do not use the terminator. Do not circumvent or manipulate the latching mechanism.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|  | <b>WARNING:</b> When installing the IQ Cable, secure any loose cable to minimize tripping hazard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|  | <b>NOTE:</b> When looping the IQ Cable, do not form loops smaller than 12 cm (4.75 inches) in diameter.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|  | <b>NOTE:</b> If you need to remove a sealing cap, you must use the IQ Disconnect tool.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|  | <b>NOTE:</b> When installing the IQ Cable and accessories, adhere to the following: <ul style="list-style-type: none"><li>Do not expose the terminator or cable connections to directed, pressurized liquid (water jets, etc.).</li><li>Do not expose the terminator or cable connections to continuous immersion.</li><li>Do not expose the terminator or cable connections to continuous tension (e.g., tension due to pulling or bending the cable near the connection).</li><li>Use only the connectors and cables provided.</li><li>Do not allow contamination or debris in the connectors.</li><li>Use the terminator and cable connections only when all parts are present and intact.</li><li>Do not install or use in potentially explosive environments.</li><li>Do not allow the terminator to come into contact with open flame.</li><li>Fit the terminator using only the prescribed tools and in the prescribed manner.</li><li>Use the terminator to seal the conductor end of the Enphase IQ Cable; no other method is allowed.</li></ul> |

#### DC Cable safety

|  |                                                                                                                                                                          |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>NOTE:</b> Ensure proper routing of PV Module DC cable using the clips to prevent the leads from resting on the roof. Do Not Wrap extra DC Cable around microinverter. |
|  | <b>NOTE:</b> Avoid direct exposure to Sunlight.                                                                                                                          |
|  | <b>NOTE:</b> Avoid sharp edges on racking.                                                                                                                               |
|  | <b>NOTE:</b> Avoid cable touching rough surfaces or moving parts within racking system.                                                                                  |
|  | <b>NOTE:</b> Avoid overly tight bending radii. Minimum bend radii for the DC cable is eight times the outer diameter or R55mm.                                           |
|  | <b>NOTE:</b> Avoid overly tightly sized cable clips for routing.                                                                                                         |

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