

# Installing Enphase IQ 6 and IQ 6+ Microinverters

To install the Enphase IQ 6 and IQ 6+ Microinverters, read and follow all warnings and instructions in this guide and in the *Enphase IQ 6 and IQ 6+ Microinverter Installation and Operation Manual* at: [enphase.com/support](http://enphase.com/support). Safety warnings are listed on the back of this guide.

The Enphase Microinverter models listed in this guide do not require grounding electrode conductors (GEC) or equipment grounding conductors (EGC). 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:** Enphase IQ Envoy and IQ 6 and IQ 6+ Micros do not communicate with, and should not be used with, previous generation Enphase Microinverters and Envoys. The Q Aggregator and other Q accessories work only with Enphase IQ 6 and/or IQ 6+ Microinverters.

## PREPARATION

A) Download the Enphase Installer Toolkit mobile app and open it to log in to your Enlighten account. With this app, you can scan microinverter serial numbers and connect to the Enphase IQ Envoy to track system installation progress. To download, go to [enphase.com/toolkit](http://enphase.com/toolkit) or scan the QR code at right.



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

Microinverter model	DC Connector type	PV module cell count
IQ6-60-2-US	MC-4 locking	Pair only with 60-cell modules.
IQ6-60-5-US	Amphenol UTX	
IQ6PLUS-72-2-US	MC-4 locking	Pair with 60- or 72-cell modules.
IQ6PLUS-72-5-US	Amphenol UTX	

To ensure mechanical compatibility, order the correct DC connector type (MC-4 locking or Amphenol UTX) for both microinverter and PV module from your distributor.

C) In addition to the Enphase Microinverters, PV modules and racking, you will need these **Enphase items**:

- Enphase IQ Envoy (model ENV-IQ-AM1-240) communications gateway: required to monitor solar production
- Tie wraps or cable clips (Q-CLIP-100)
- Enphase Sealing Caps (Q-SEAL-10): for any unused connectors on the Enphase Q Cable
- Enphase Terminator (Q-TERM-10): one needed at the end of each AC cable segment
- Enphase Disconnect Tool (Q-DISC-10)
- Enphase Q Cable:

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

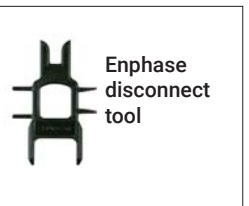
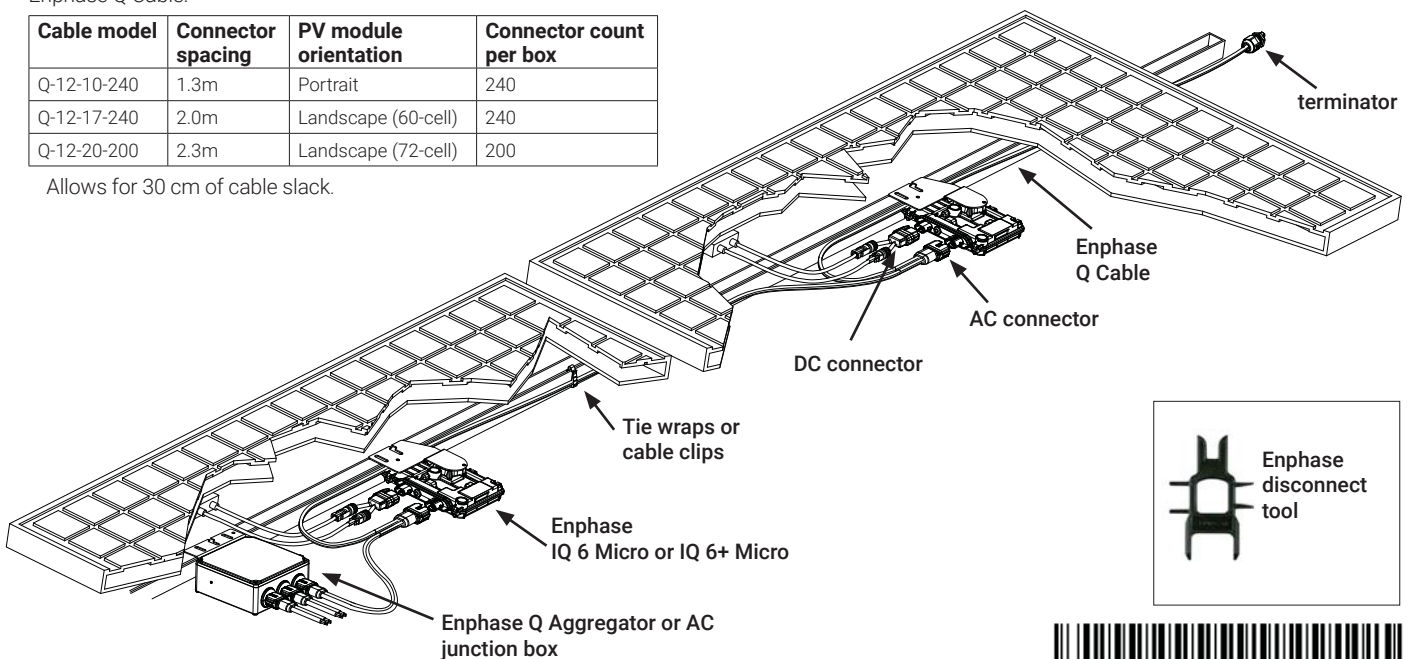
Allows for 30 cm of cable slack.

- D) Check that you have these other items:
- Enphase Q Aggregators or AC junction box
  - Number 2 and 3 Phillips screwdrivers
  - A 27 mm open-end wrench or channel lock pliers for terminator
  - Torque wrench, sockets, 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) Plan your AC branch circuits to meet the following limits for maximum number of microinverters per branch when protected with a 20-amp over-current protection device (OCPD).

Max. IQ 6 Micros per 240V branch circuit (single phase)	Max. IQ 6+ Micros per 240V branch circuit (single phase)
16	13
Max. IQ 6 Micros per 208V branch circuit (single phase)	Max. IQ 6+ Micros per 208V branch circuit (single phase)
14	11

G) Size the AC wire gauge to account for voltage rise. Select the correct wire size based on the distance from the beginning of the Enphase Q Cable to the breaker in the load center. Design for a voltage rise total of less than 2% for the sections from the Enphase Q Cable to the breaker in the load center. Refer to the Voltage Rise Technical Brief at [enphase.com/support](http://enphase.com/support) for more information.

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



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# INSTALLATION

## 1 Position the Enphase Q Cable

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



**WARNING:** When transitioning between rows, secure the cable to the rail to prevent cable damage.

## 2 Install an Enphase Q Aggregator or Junction Box

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

Service Type and Voltage: L1-L2	
240 V Split-Phase	211 to 264 VAC
208 V Single Phase	183 to 229 VAC

- B) Install an Enphase Q Aggregator or junction box at a suitable location on the racking. See *Enphase Q Aggregator Quick Install Guide*.
- C) Provide an AC connection from the Enphase Q Aggregator or junction box back to the electricity network connection using equipment and practices as required by local jurisdictions.

## 3 Mount the Microinverters

- A) **Mount the microinverter bracket side up (as shown) and under the PV module, away from rain and sun.** Allow a minimum of 1.9 cm (0.75 inches) between the roof and the microinverter. Also allow 1.3 cm (0.50 inches) between the back of the PV module and the top of the microinverter.

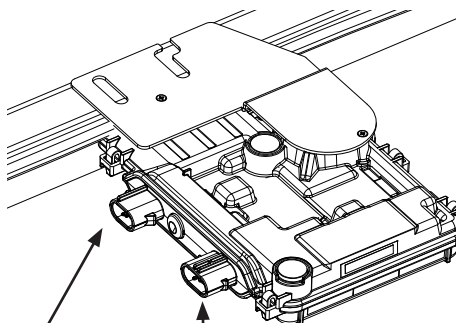


### WARNINGS:

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.

- B) Torque the mounting fasteners 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



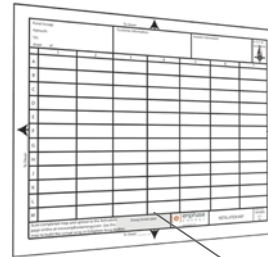
DC connector

AC connector

## 4 Create an Installation Map

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

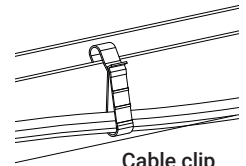
- A) Peel the removable serial number label from each microinverter and affix it to the respective location on the paper installation map.
- B) Peel the label from the IQ Envoy and affix it to the installation map.
- C) Always keep a copy of the installation map for your records.



Affix serial number labels

## 5 Manage the Cabling

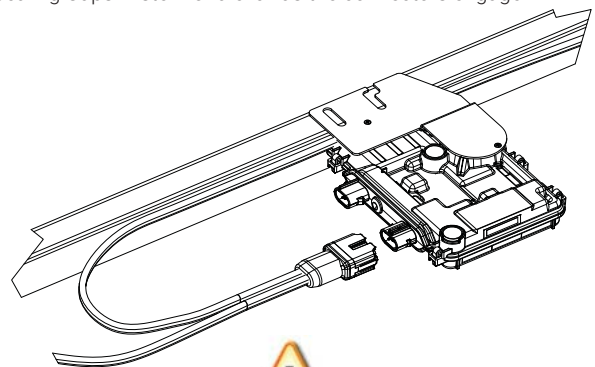
- A) Use cable clips or tie wraps to attach the cable to the racking. The cable must be supported at least every 1.8 m (6 feet).
- B) Dress any excess cabling in loops so that it does not contact the roof. Do not form loops smaller than 12 cm (4.75 inches) in diameter.



Cable clip

## 6 Connect the Microinverters

- A) Connect the microinverter. Listen for a click as the connectors engage.
- B) Cover any unused connectors with Enphase Sealing Caps. Listen for a click as the connectors engage.

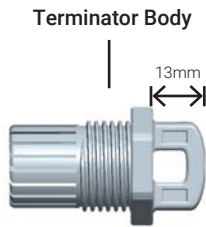


**WARNING:** Install sealing caps on all unused AC connectors as these connectors become live when the system is energized. Sealing caps are required for protection against moisture ingress.

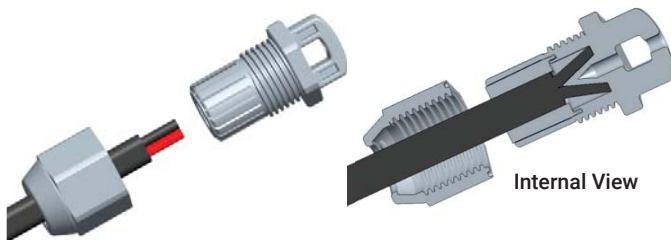
To remove a sealing cap or AC connector, you must use an Enphase disconnect tool.

## 7 Terminate the Unused End of the Cable

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



- B) Slide the hex nut onto the cable. There is a grommet inside of the terminator body that should remain in place.
- C) Insert the cable into the terminator body so that each of the two wires land on opposite sides of the internal separator.



- D) Insert a screwdriver into the slot on the top of the terminator to hold it in place, and tighten nut with 27 mm open-end wrench or channel lock pliers until fully tightened.

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



- F) Manage 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: Never unscrew the hex nut. Unscrewing the hex nut destroys the locking feature, and you must replace the terminator.**

## 8 Connect to an Enphase Q Aggregator or Junction Box

- A) Connect the Enphase Q Cable into the Enphase Q Aggregator or junction box.
- B) Use the ground lug on the Q Aggregator for module, rack, and balance of system grounding, if needed.

The Q Cable uses the following wiring color code:

### Wire Colors

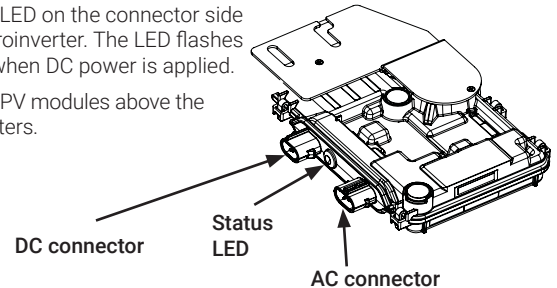
Black – L1  
Red – L2

## 9 Connect the PV Modules



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

- A) Connect the DC leads of each PV module to the DC input connectors of the corresponding microinverter.
- B) Check the LED on the connector side of the microinverter. The LED flashes six times when DC power is applied.
- C) Mount the PV modules above the microinverters.



## 10 Energize the System

- A) If applicable, turn ON the AC disconnect or circuit breaker for the branch circuit.
- B) Turn ON the main utility-grid AC circuit breaker. Your system will start producing power **after a five-minute wait time**.
- C) 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 Envoy.
Flashing orange	The AC grid is normal but there is no communication with the IQ Envoy.
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 <i>Enphase IQ 6 and IQ 6+ Microinverter Installation and Operation Manual</i> at: <a href="http://www.enphase.com/support">http://www.enphase.com/support</a> .

## ACTIVATE MONITORING AND CONTROLS

After you have installed the microinverters, follow the procedures in the *Enphase IQ Envoy Quick Install Guide* to activate system monitoring, set up grid management functions, and complete the installation.

- Connecting the IQ Envoy
- Detecting devices
- Connecting to Enlighten
- Registering the system
- Building the virtual array

### Enphase Connector Rating

Enphase Connectors in the following table have a maximum current of 20 A, a maximum OCPD of 20 A, and maximum ambient temperature of -40° to +79° C (-40° to +174.2° F).

Part Number	Model	Maximum Voltage
840-00387	Q-12-10-240	277 VAC
840-00388	Q-12-17-240	277 VAC
840-00389	Q-12-20-200	277 VAC
840-00800	Q-DCC-7	300 VDC
840-00385	Q-DCC-2	100 VDC
840-00386	Q-DCC-5	100 VDC

# 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 which 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 Enphase IQ 6 and IQ 6+ Microinverter.

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

### 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 connectors under load.
	<b>DANGER:</b> Risk of electric shock. Risk of fire. Only use electrical system components approved for wet locations.

General Safety, continued	
	<b>DANGER:</b> Risk of electric shock. Risk of fire. Only qualified personnel should troubleshoot, install, or replace Enphase Microinverters or the Enphase Q 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 20A 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 Enphase Q Cable according to the instructions in this guide.
	<b>NOTE:</b> Provide support for the Enphase Q-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> The AC and DC connectors on the cabling are rated as a disconnect only when used with an Enphase Microinverter.
	<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> 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 Enphase Q Cable connection, PV module, or the microinverter) to rain or condensation before the connectors are mated.

Microinverter Safety, continued	
	<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 field-adjustable voltage and frequency trip points that may need to be set, depending upon local requirements. Only an authorized installer with the permission and following requirements of the local electrical authorities should make adjustments.

### Enphase Q Cable Safety

	<b>DANGER:</b> Risk of electric shock. Do not install the Enphase Q Cable terminator while power is connected.
	<b>DANGER:</b> Risk of electric shock. Risk of fire. When stripping the sheath from the Enphase Q 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 Enphase Q 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 Enphase Q Cable, secure any loose cable to minimize tripping hazard.
	<b>NOTE:</b> When looping the Enphase Q 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 Enphase disconnect tool.
	<b>NOTE:</b> When installing the Enphase Q 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 Q Cable; no other method is allowed.</li> </ul>

# SÉCURITÉ sur les micro-onduleurs

## Enphase IQ 6 et IQ 6+

**INSTRUCTIONS IMPORTANTES RELATIVES À LA SÉCURITÉ VEUILLEZ CONSERVER CES INFORMATIONS.** Ce guide contient des instructions importantes que vous devez suivre lors de l'installation des micro-onduleurs IQ 6 et IQ6+.



	<b>AVERTISSEMENT</b> : surface chaude.
	<b>AVERTISSEMENT</b> : Reportez-vous aux instructions relatives à la sécurité.
	<b>DANGER</b> : risque d'électrocution.
	Reportez-vous au manuel.
	Double isolation

### Symboles de sécurité et d'alerte

	<b>DANGER</b> : ce symbole indique une situation dangereuse qui, si elle n'est pas évitée, peut entraîner la mort ou des blessures graves.
	<b>AVERTISSEMENT</b> : ce symbole indique une situation où le non-respect des consignes peut endommager l'appareil ou constituer un risque pour la sécurité. Soyez extrêmement prudent et suivez attentivement les instructions.
	<b>AVERTISSEMENT</b> : Cela indique une situation où le non-respect des instructions peut engendrer des brûlures.
	<b>REMARQUE</b> : ce symbole indique une information particulièrement importante pour le fonctionnement optimal du système.

### Sécurité générale

	<b>DANGER</b> : risque d'électrocution. N'utilisez jamais le matériel Enphase d'une manière non spécifiée par le fabricant. Cela peut entraîner la mort ou des blessures graves, ou endommager l'équipement.
	<b>DANGER</b> : risque d'électrocution. Notez que l'installation de cet équipement présente un risque d'électrocution.
	<b>DANGER</b> : Risque d'électrocution. Les conducteurs DC de ce système photovoltaïque ne sont pas mis à la terre et peuvent être mis sous tension.
	<b>DANGER</b> : Risque d'électrocution. Débranchez toujours le circuit de dérivation AC avant toute maintenance. Ne débranchez jamais les connecteurs DC sous tension.
	<b>DANGER</b> : risque d'électrocution. Risque d'incendie. Utilisez uniquement des composants de système électrique approuvés pour les emplacements humides.
	<b>DANGER</b> : risque d'électrocution. Risque d'incendie. Seul un technicien qualifié est habilité à dépanner, installer ou remplacer un micro-onduleur Enphase ou le câble Engage et les accessoires.
	<b>DANGER</b> : risque d'électrocution. Risque d'incendie. Assurez-vous que tout le câblage AC et DC est correct et qu'aucun des câbles AC ou DC n'est pincé ou endommagé. Assurez-vous que les boîtes de jonction AC sont correctement fermées.
	<b>DANGER</b> : risque d'électrocution. Risque d'incendie. Ne dépassez pas le nombre maximal de micro-onduleurs d'un circuit de dérivation AC qui est indiqué dans le manuel. Vous devez protéger le circuit de dérivation AC de chaque micro-onduleur par un disjoncteur ou un fusible de 20 A maximum, le cas échéant.

### Sécurité générale, suite

	<b>AVERTISSEMENT</b> : avant d'installer ou d'utiliser le micro-onduleur Enphase, lisez toutes les instructions et mises en garde figurant dans la description technique, sur le système de micro-onduleurs Enphase et l'équipement photovoltaïque (PV).
	<b>AVERTISSEMENT</b> : ne connectez pas un micro-onduleur Enphase au réseau électrique et ne mettez pas les circuits AC sous tension avant d'avoir exécuté toutes les procédures d'installation et reçu l'approbation préalable de la compagnie d'électricité.
	<b>REMARQUE</b> : pour assurer une fiabilité optimale et satisfaire aux exigences de la garantie, installez le micro-onduleur Enphase et le câble Q Enphase selon les instructions fournies dans le présent manuel.
	<b>REMARQUE</b> : Réalisez toutes les installations électriques conformément aux codes de l'électricité locaux en vigueur et à la réglementation en vigueur du code canadien de l'électricité, partie 1 ; la réglementation du National Electrical Code (NEC), du ANSI et du NFPA 70 (NEC).
	<b>REMARQUE</b> : les connecteurs AC et DC du câblage sont conçus de manière à être connectés uniquement avec un micro-onduleur Enphase.
	<b>REMARQUE</b> : la protection contre la foudre et la surtension qui en résulte doit être conforme aux normes locales.

### Sécurité du micro-onduleur

	<b>AVERTISSEMENT</b> : risque de brûlure cutanée. Le corps du micro-onduleur Enphase est le dissipateur thermique. Dans des conditions normales d'utilisation, la température dépasse de 20 °C la température ambiante ; en revanche, dans des conditions extrêmes, le micro-onduleur peut atteindre 90 °C. Pour réduire le risque de brûlures, soyez prudent lorsque vous manipulez les micro-onduleurs.
	<b>DANGER</b> : risque d'électrocution. Risque d'incendie. Si le câble AC du micro-onduleur est endommagé, n'installez pas le micro-onduleur.
	<b>DANGER</b> : risque d'électrocution. Risque d'incendie. N'essayez pas de réparer le micro-onduleur Enphase ; il ne contient pas de pièce remplaçable par l'utilisateur. S'il tombe en panne, contactez le service client d'Enphase pour obtenir un numéro d'autorisation de retour (numéro RMA) et lancer la procédure de remplacement. L'altération ou l'ouverture du micro-onduleur Enphase annulera la garantie.
	<b>DANGER</b> : risque d'incendie. Les conducteurs DC de ce système photovoltaïque doivent être marqués Circuit PV ou Câble PV lorsqu'ils sont raccordés à un micro-onduleur Enphase.
	<b>AVERTISSEMENT</b> : vous devez faire correspondre la plage des tensions de fonctionnement DC du module PV avec la plage des tensions d'entrée autorisées du micro-onduleur Enphase.
	<b>AVERTISSEMENT</b> : la tension maximale en circuit ouvert du module PV ne doit pas dépasser la tension d'entrée maximale spécifiée du micro-onduleur Enphase.
	<b>AVERTISSEMENT</b> : risque d'endommagement de l'équipement. Installez le micro-onduleur sous le module PV afin d'éviter une exposition directe à la pluie, aux rayons UV ou toute autre intempérie. Installez toujours le micro-onduleur avec le côté du cadre vers le dessus. N'installez pas le micro-onduleur à l'envers. Do not expose the AC or DC connectors (on the Enphase Q Cable connection, PV module, or the microinverter) to rain or condensation before the connectors are mated.

### Sécurité du micro-onduleur, suite

	<b>DANGER</b> : risque d'électrocution. Risque d'incendie. <b>AVERTISSEMENT</b> : notez que seul un technicien qualifié est habilité à relier le micro-onduleur Enphase au réseau électrique.
	<b>REMARQUE</b> : le micro-onduleur Enphase a une tension et des valeurs limites de fréquence ajustables sur site qui doivent être définies, en fonction des exigences locales. Les réglages ne peuvent être effectués que par un installateur agréé autorisé qui respecte les exigences des autorités d'électricité locales.

### Sécurité du câble Q Enphase

	<b>DANGER</b> : risque d'électrocution. N'installez pas le terminateur lorsque le câble est sous tension.
	<b>DANGER</b> : risque d'électrocution. Risque d'incendie. Lorsque vous retirez la gaine du câble Enphase Q, assurez-vous que les conducteurs ne sont pas abîmés. Si les câbles exposés sont abîmés, il se peut que le système ne fonctionne pas correctement.
	<b>DANGER</b> : risque d'électrocution. Risque d'incendie. Ne laissez pas les connecteurs AC du câble Enphase Q découverts pendant longtemps. Équipez tous les connecteurs inutilisés d'un bouchon d'étanchéité.
	<b>DANGER</b> : risque d'électrocution. Risque d'incendie. Assurez-vous que des capuchon d'étanchéité ont été installés sur tous les connecteurs AC inutilisés. Les connecteurs AC non utilisés sont sous tension lorsque le système est en service.
	<b>AVERTISSEMENT</b> : n'utilisez le terminateur qu'une fois. Si vous ouvrez le terminateur à la suite de l'installation, le mécanisme de verrouillage est détruit. Ne réutilisez pas le terminateur. Si le mécanisme de verrouillage est défectueux, n'utilisez pas le terminateur. Ne forcez pas et ne manipulez pas le mécanisme à verrouillage.
	<b>AVERTISSEMENT</b> : lors de l'installation du câble Enphase Q, fixez un éventuel câble flottant pour éviter tout risque de déclenchement intempestif.
	<b>REMARQUE</b> : lorsque vous enroulez le câble Enphase Q, ne formez aucune boucle inférieure à 12 centimètres de diamètre.
	<b>REMARQUE</b> : Si vous devez déplacer un bouchon d'étanchéité, il faut utiliser un outil de déconnexion Enphase.
	<b>REMARQUE</b> : lors de l'installation du câble Enphase Q et des accessoires, respectez les instructions suivantes : <ul style="list-style-type: none"> <li>N'exposez pas le terminateur ou les connexions du câble à du liquide direct sous pression (jets d'eau, etc.).</li> <li>N'exposez pas le terminateur ou les connexions du câble à une immersion permanente.</li> <li>N'exposez pas le terminateur ou les connexions du câble à une tension continue (par ex., à une tension due à la traction ou à la flexion du câble à proximité de la connexion).</li> <li>N'utilisez que les connecteurs et les câbles fournis.</li> <li>Évitez la contamination ou les débris dans les connecteurs.</li> <li>Utilisez le terminateur et les connexions du câble uniquement lorsque toutes les pièces sont présentes et intactes.</li> <li>N'installez pas et n'utilisez pas le système dans les environnements potentiellement explosifs.</li> <li>Ne laissez pas le terminateur entrer en contact avec une flamme nue.</li> <li>Ne placez le terminateur qu'en utilisant les outils indiqués et de la manière indiquée.</li> <li>Utilisez le terminateur pour fermer l'extrémité du conducteur du câble Enphase Q ; aucune autre méthode n'est autorisée.</li> </ul>

Sheet / A la hoja de: \_\_\_\_\_

Panel Group/Grupo de los paneles: Azimuth/Azimut: Tilt/Inclinación: Sheet/Hoja _____ of/de _____		Customer/Ciente:					Installer/Instalador:					N S E W N S E O	
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Scan completed map and upload it to Enphase. Click "Add a New System" at <https://enlighten.enphaseenergy.com>. Use this map to build the virtual array in Enlighten's Array Builder. /

Envoy Serial Number Label /  
Número de serie de Envoy

Escanee el mapa completo y cárguelo en Enphase. Haga clic en "Añadir nuevo sistema" en <https://enlighten.enphaseenergy.com>. Utilice este mapa para crear el conjunto de paneles virtual en el Creador de conjuntos de paneles de Enlighten.



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