

Installing the Enphase Ensemble™ Communications Kit

The Enphase Ensemble Communications Kit (COMMS-KIT-01) contains a wireless USB adapter to install in an IQ Combiner or near an IQ Envoy. The kit includes a USB cable for connection to IQ Envoy or Enphase IQ Combiner™ and allows wireless communication with Enphase Encharge™ storage and Enphase Enpower™ Microgrid Interconnection Device (MID).

Read and follow all warnings and instructions in this Guide. If you do not fully understand any of the concepts, terminology, or hazards outlined in these instructions, refer installation to a qualified electrician or installer. These instructions are not meant to be a complete explanation of a renewable energy system. All installations must comply with national and local electrical codes. Professional installation is recommended.

SAFETY

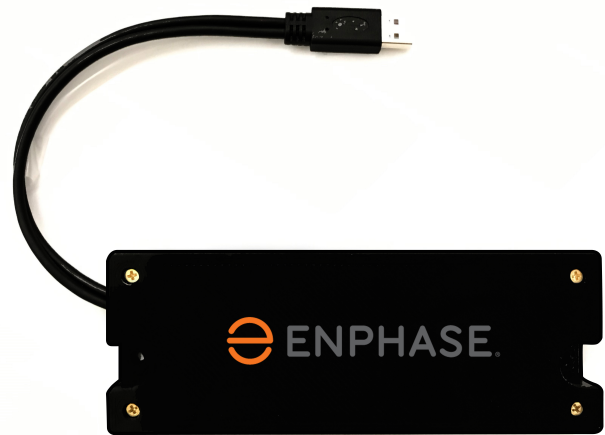
IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS

This guide contains important instructions that you must follow during installation of the Enphase Ensemble Communications Kit.

Safety and Advisory Symbols

	DANGER: This indicates a hazardous situation, which if not avoided, will result in death or serious injury.
	WARNING: This indicates a situation where failure to follow instructions may be a safety hazard or cause equipment malfunction. Use extreme caution and follow instructions carefully.
	NOTE: This indicates information particularly important for optimal system operation. Follow instructions carefully.



Safety Instructions

	DANGER: Risk of electric shock. Risk of fire. Do not attempt to repair the Enphase Ensemble Communications Kit. It contains no user-serviceable parts. If the equipment fails, contact Enphase Customer Support for assistance or replacement equipment (enphase.com/en-us/support/contact).
	DANGER: Risk of electric shock. Do not use Enphase equipment in a manner not specified by the manufacturer. Doing so may cause death or injury to persons, or damage to equipment.
	DANGER: Risk of electric shock. Be aware that installation of this equipment includes risk of electric shock. Do not install the Ensemble Communications Kit without first removing AC power from the Enphase System. Ensure the power coming from the microinverters is de-energized before servicing or installing.
	DANGER: Risk of electric shock. Risk of fire. Only qualified personnel should troubleshoot, install, or add parts to the IQ Combiner.
	DANGER: Risk of electric shock. Improper servicing of the IQ Combiner or its components may result in a risk of shock, fire or explosion. To reduce these risks, disconnect all wiring before attempting any maintenance or cleaning.
	DANGER: Risk of electric shock. Always de-energize the AC branch circuit before servicing. While connectors are rated for disconnect under load, it is a best practice to de-energize before disconnecting.
	DANGER: Risk of electric shock. Risk of fire. Only use electrical system components approved for wet locations.

	DANGER: Risk of electric shock. Risk of fire. Ensure that all wiring is correct and that none of the wires are pinched or damaged.
	DANGER: Risk of electric shock. Risk of fire. Do not work alone. Someone should be in the range of your voice or close enough to come to your aid when you work with or near electrical equipment. Remove rings, bracelets, necklaces, watches etc. when working with batteries, photovoltaic modules or other electrical equipment.
	DANGER: Risk of electric shock. Risk of fire. Before making any connections verify that the circuit breakers are in the off position. Double check all wiring before applying power.
	WARNING: Before installing or using the IQ Combiner, read all instructions and cautionary markings in the technical description and on the equipment.
	WARNING: Use the circuit breakers in the IQ Combiner only for serving Enphase equipment. No other loads are allowed.
	WARNING: The IQ Combiner is not provided with a GFDI device.
	NOTE: Using unapproved attachments or accessories could result in damage or injury.



INSTALLATION



DANGER! Risk of electric shock. Always de-energize the IQ Envoy or IQ Combiner before beginning the following procedure.

1 Preparation

- A) Check that the IQ Envoy or IQ Combiner is de-energized.
- B) Be sure to wear anti-static protection, such as a properly grounded anti-static wrist strap.

2 Install the Communications Adapter

The kit includes the wireless USB adapter, with USB cable (for power and communications) and tie wraps. To install the adapter adjacent to an Enphase IQ Envoy or in an Enphase IQ Combiner, do the following:

- A) If installing in an IQ Combiner, open the enclosure door.
- B) Select or locate the installation position for the adapter:
 - For IQ Combiner 1.75 (Model X-IQ-AM1-240-B), place the adapter on the front side of the deadfront near the bottom.
 - For IQ Combiner 3 and IQ Combiner 3C (Models X-IQ-AM1-240-3 and Model X-IQ-AM1-240-3C), place the adapter on the front side of the deadfront on the right side (see image below).
 - For the IQ Combiner+ (Model X-IQ-AM1-240-2), place the adapter on the front side of the deadfront on the left side.
 - For IQ Envoy (Model ENV-IQ-AM1-240), select a mounting location near the IQ Envoy, so that the USB cable can reach between the IQ Envoy and the adapter.
- C) Plug the free end of the USB cable into a USB port on the IQ Envoy.
- D) If installing in an IQ Combiner, use the tie wraps and/or adhesive patch to hold the adapter in place. Either weave the tie wraps through the openings in the dead front, or use the adhesive patch to hold the adapter in place. You can use both, if needed.
- E) If installing the adapter with an IQ Envoy not housed in an Enphase Combiner, you can use screws to mount the adapter to the wall or board. Use one screw in each of the two recesses of the adapter.

3 Upgrade the IQ Envoy Software

You must upgrade the IQ Envoy software to work with the COM-MS-KIT-01 and other Ensemble components.

- A) Use the Enphase Installer Toolkit app on your smart phone to upgrade the IQ Envoy with Envoy embedded software version 6.0.x.
- B) Follow the instructions as shown in the Installer Toolkit app to complete the installation.

