

Enphase Energy System commissioning guide for cellular-only sites (CELLMODEM-07)

Applicable regions: United States of America, Australia, New Zealand, Europe and Latin America

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1. Introduction

The commissioning procedure for sites without Wi-Fi or Ethernet connectivity requires additional steps due to the absence of internet access. These steps are primarily necessary to ensure that the correct embedded software (eSW) is loaded onto the IQ Gateway to enable proper operation of all system components.

1.1 Pre-commissioning checklist (office)

Before heading to the site, ensure the following:

1. Enphase Installer App
 - The latest version is installed on your mobile device.
 - App permissions are enabled (Bluetooth, Wi-Fi, location).
2. IQ Gateway software (eSW)
 - Connect your device to Wi-Fi.
 - Go to **Settings > IQ Gateway Software > Update Now**.
 - Confirm **version 8.3.5058** (or newer) is downloaded and listed in the bucket.

 **NOTE:** eSW will not download over 4G/5G during commissioning (exception is to use a second phone to create a hotspot, although this is not recommended).
3. Site activation
 - Create the site in **Enphase Installer Portal** before commissioning through a computer, or use the Enphase Installer App and save it. This will create a **site ID** for the system (can be performed over Wi-Fi or 4G/5G).
 - This step is required to proceed beyond Step 2 in the Enphase Installer App.

2. On-site commissioning steps (no internet required)

1. Connect to IQ Gateway
 - Use **Wi-Fi AP mode** or **Bluetooth** through the Enphase Installer App.
 - Connect your device to the gateway. The network name will follow the format Envoy_XXXXXX, where XXXXXX represents the last six digits of the gateway's serial number.
 - Confirm the connection status (blue indicator in app).
2. Scan and map devices.
 - Search for the system ID on the Enphase Installer App.
 - Scan the barcodes of the IQ Gateway and microinverters.
 - Create an array layout and assign devices.
3. Provision devices
 - The Enphase Installer App will push preloaded eSW to the IQ Gateway.
 - Provisioning may take 20–30 minutes.
 - Confirm all devices are detected and communicating.
4. Metering setup
 - Configure Production and Consumption CTs.
5. System validation

- Confirm microinverter production.
 - Generate and email a commissioning report.
6. Data synchronization
- IQ Gateway will synchronize data through CELLMODEM-07.
 - No Wi-Fi or Ethernet required.
 - Enphase Installer Portal will show the system status once synchronization is complete.

3. Best practices

- Preload the eSW in the office using a Wi-Fi connection.
- Activate the site before arriving on-site to avoid delays.
- Avoid relying on mobile data for downloads.
- Use an external antenna with the CELLMODEM-07 if the cellular signal is weak or marginal.
- Keep your phone charged and the Enphase Installer App open throughout the commissioning process.

4. Revision history

Revision	Date	Description
TEB-00331-3.0	February 2026	Editorial updates.
TEB-00331-2.0	December 2025	
TEB-00331-1.0	November 2025	Initial release.