

Technical Brief - Best Practices for Fast Commissioning

USING THIS DOCUMENT

This document provides installers with best practices to enable fast commissioning of an Enphase Storage System.

BEST PRACTICES: Before going to the job site, complete these steps from the office.

- Ensure Enphase Installer Toolkit (ITK) v3.0.15 or higher is installed in the mobile device.
- Update tariff, permitting information, and grid profile in Enlighten Activation.
- Initiate remote Envoy software upgrade. (If Envoy is already installed and connected to Wi-Fi or Ethernet).
- Ensure the Site is set to an Ensemble approved grid profile.

BEST PRACTICES: At the job site, follow below steps in ITK for a fast commissioning experience

 Installer Took Kit Commissioning Step	Step Description	On-Site ITK Step duration with Best Practice (hrs.: min)	On-Site ITK Step duration w/o Best Practice (hrs.: min)	Best Practice
1	System Details	Done from office	0:05	Create the Commissioning Site from the office using Enlighten Manager or ITK before going to the job site
2a	Devices and Array	0:10	0:20	Use the PLC Scan Function to automatically scan all micros. Have a physical copy of the micro's S/N map at the site. Get familiar with the bar codes to be scanned in the Enpower and Encharges before this activity.
2b	Site Configuration	0:05	0:08	Optionally: Select micros for solar circuit shedding Configure the mode for load shedding Configure Power Control System (PCS) for Main Panel Upgrade avoidance Have a physical copy of the micro's S/N map and bar codes at the site to avoid entering micro Serial Numbers manually if doing solar circuit shedding
3	Tariff & Storage Configuration (Optional)	Done from office	0:02	Complete this step from the office using Enlighten Manager or ITK before going to the job site OR use the defaults in ITK and let the homeowner set the tariff and battery mode using the Enlighten Homeowner app
4	Envoy Connectivity	Done from office	0:25	Remotely update the Envoy using Enlighten Manager before going to the site if possible. Or if at site: Locate the phone close to the Envoy Make sure that your phone is fully charged and have an external battery handy. For load control systems you may need an update on-site
5	Provisioning Devices	0:02	0:05	Provision micros, Encharges and Enpower to ensure Envoy can communicate with these devices. Turn off DC and then AC to the Encharges after the provisioning is done. This will speed up the next step.
●	Ensemble Software Update	0:35	0:35	Update Enpower software, and ensure batteries can form a grid Proceed to complete the next step "Step 6" while the Enpower updates to save ~ 10 minutes of time
6	Meter Configuration (Enable Production and Consumption CT's)	Done on site during Enpower Update (previous step)	0:10	Check that production and consumption CTs are wired correctly and enable the meters Identify what load should be turned on ahead of time. For example, a Dryer, a Microwave oven, etc.
7	Live Status Functional Test (Load Control and System)	0:20	0:25	Test system configuration to ensure microgrid functions as designed Identify ahead of time a 120V load which is connected to the backup panel, and bring a heat gun , hair dryer or other load for testing.
8	Summary Report	0:02	0:02	Generate PDF report summarizing system status NA
Total commissioning time		1:14	2:17	