

Activate your Enphase System using the new Activations page

Contents

Summary	3
Background	3
Accessing the new Activations page	3
Navigating through the new activation page	5
Details section	5
Name & Address.....	6
System Setup	7
Permit and Contract Dates	7
System Access.....	8
Site Notes, Pictures & Docs	8
Configuration section	9
Device Inventory.....	9
System Configuration.....	10
Power Controlled System	10
Auxiliary Contact Configuration	11
Production Estimate.....	15
Commissioning section	15
Enter Serial Number	16
PV Array.....	16
Gateway Software Upgrade	18
Provisioning.....	20
Validation section	20
Ensemble Software Update	21
Functional Validation	22
Post Commissioning section	23
Battery Configuration (Optional).....	23
Tariff	24
Installation Map (Optional).....	24
Summary Report.....	25
Homeowner Walk-through	26
Revision history	27

Summary

The existing Activation page in the Enphase Installer Portal that opens when the user tries to add a new system has been revamped with new advanced and additional features. This user guide describes all the key features introduced as part of this new Activation page. **These features are currently available only for installers in North America.**

Background

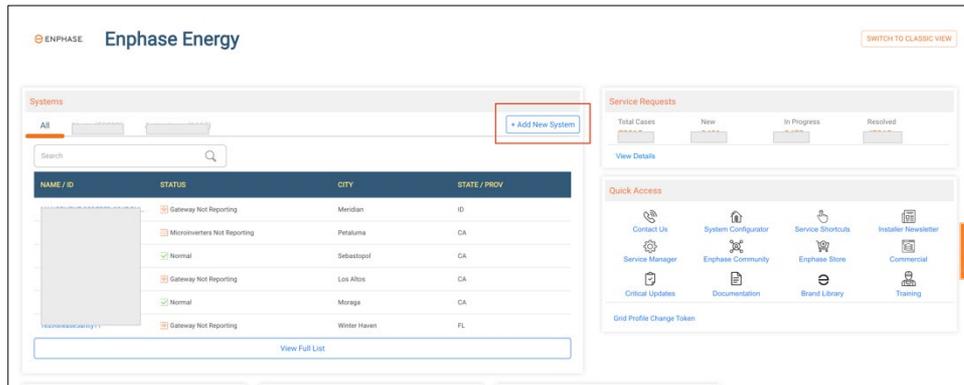
The present Activation page in the Enphase Installer Portal is a simple form that requests basic details from the user, such as system location, owner details, system type, and other details. Key commissioning activities like serial number scanning, provisioning, load control configuration, system design compatibility checks, and necessary validations were limited within the Enphase Installer App.

With the launch of the new Activation page, we have tried to facilitate the user to perform many commissioning tasks remotely from their office, whichever is possible. The main goal of introducing this new page for our installers is to reduce the time they are required to spend in the field during commissioning activities.

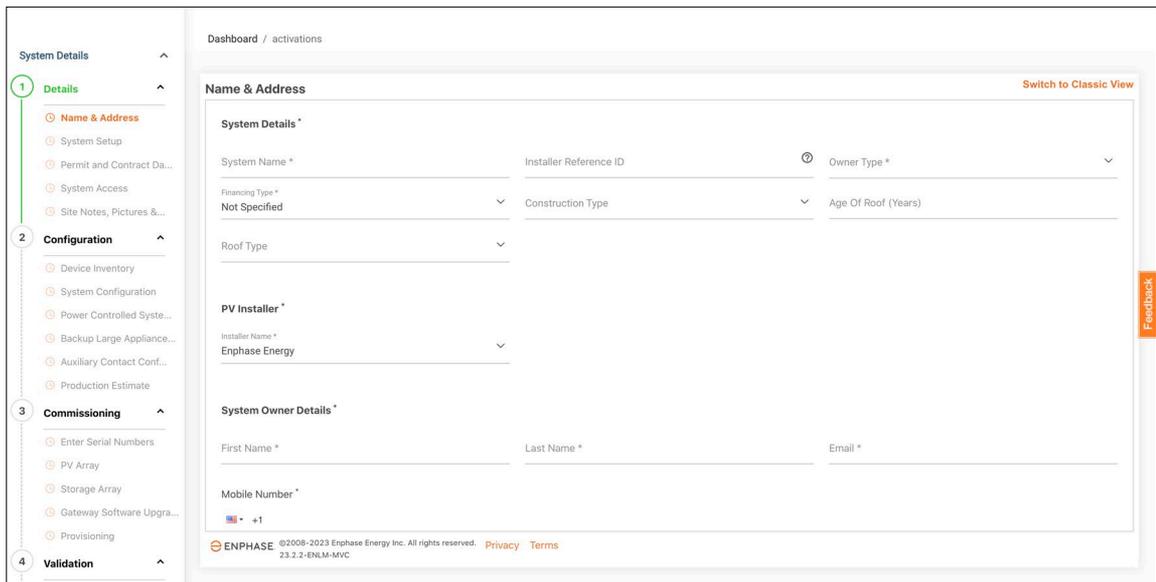
Accessing the new Activations page

To access the new “Activations” page, the user must perform the following steps:

1. Log in to the Enphase Installer Portal.
2. Click “+Add New System” on the Dashboard page of the Enphase Installer Portal.

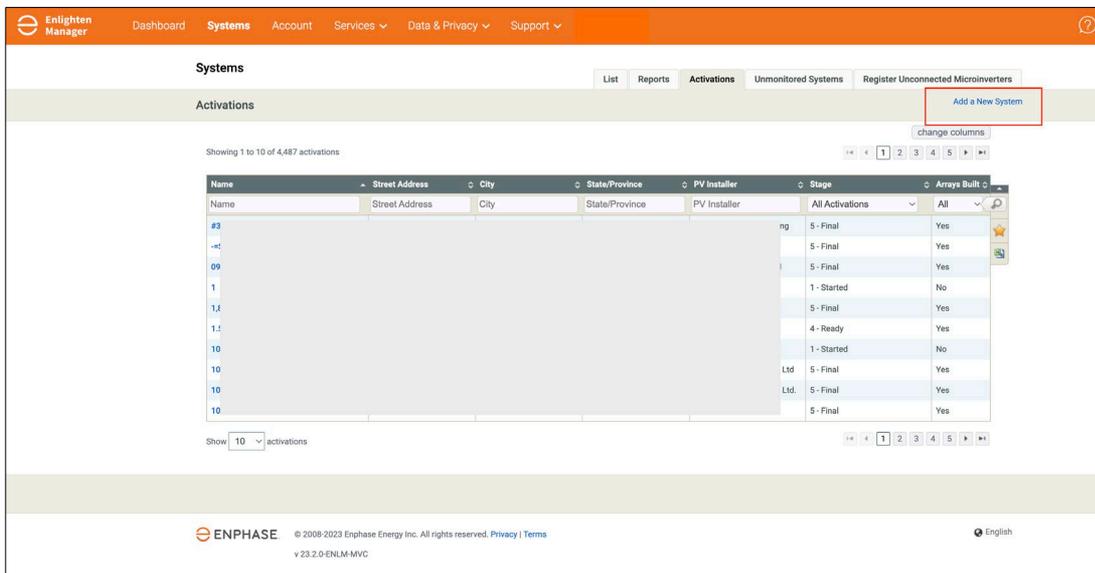


3. The “activations” page for the “Details” section displays.

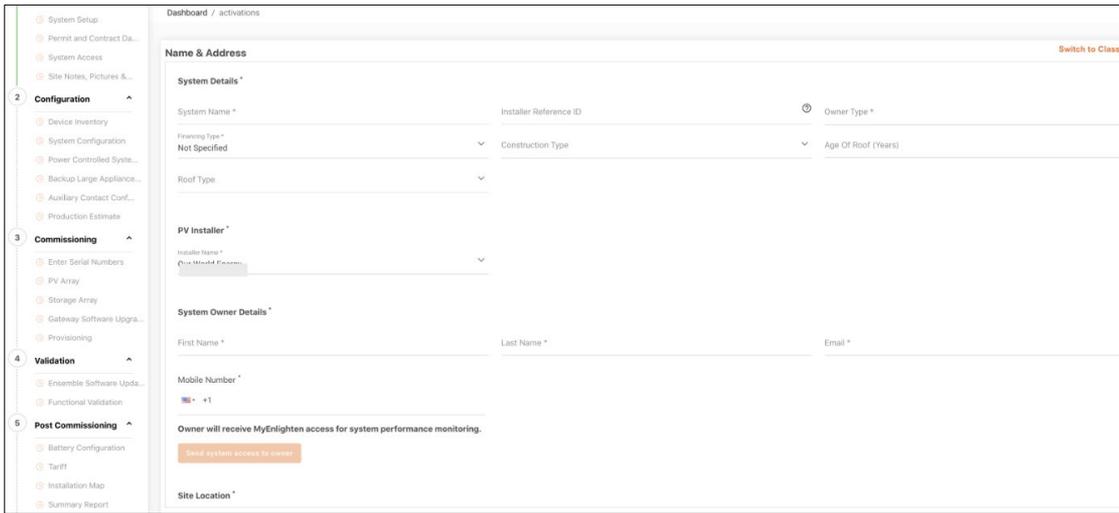


Alternatively, the user can access the navigation page using the following steps as well:

- From the “Systems” tab, the installer can navigate to the “Activations” list and click the “Add a New System” in the top right corner, as shown.



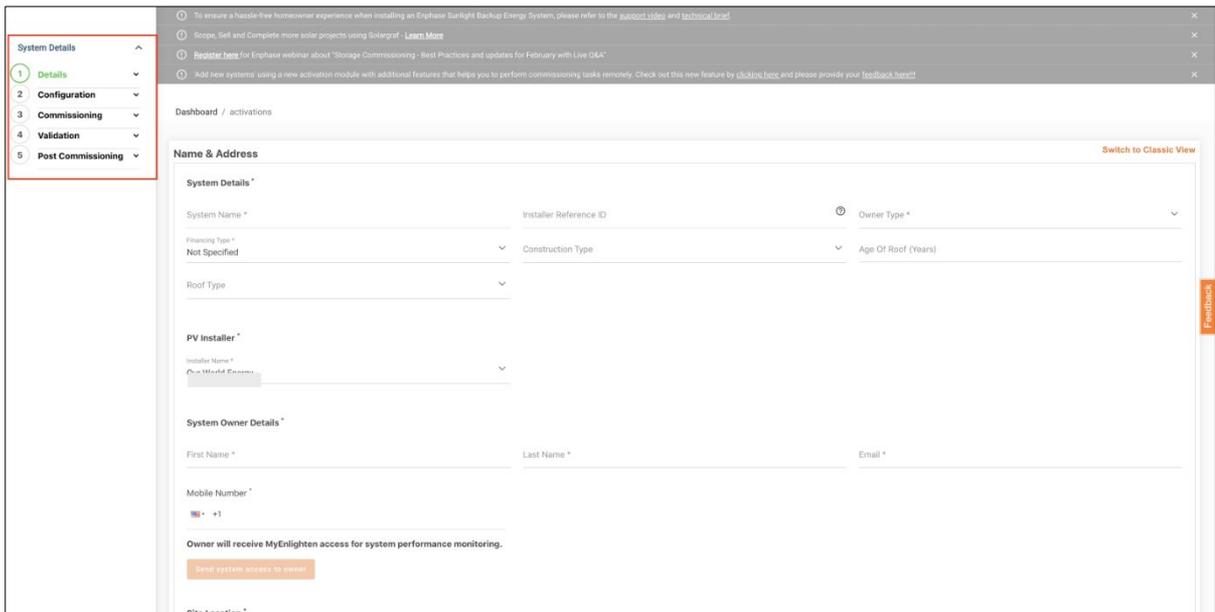
- The “activation” page for “Configuration” section displays.



Navigating through the new activation page

The “activations” page for the following sections is:

1. Details
2. Configuration
3. Commissioning
4. Validation
5. Post Commissioning



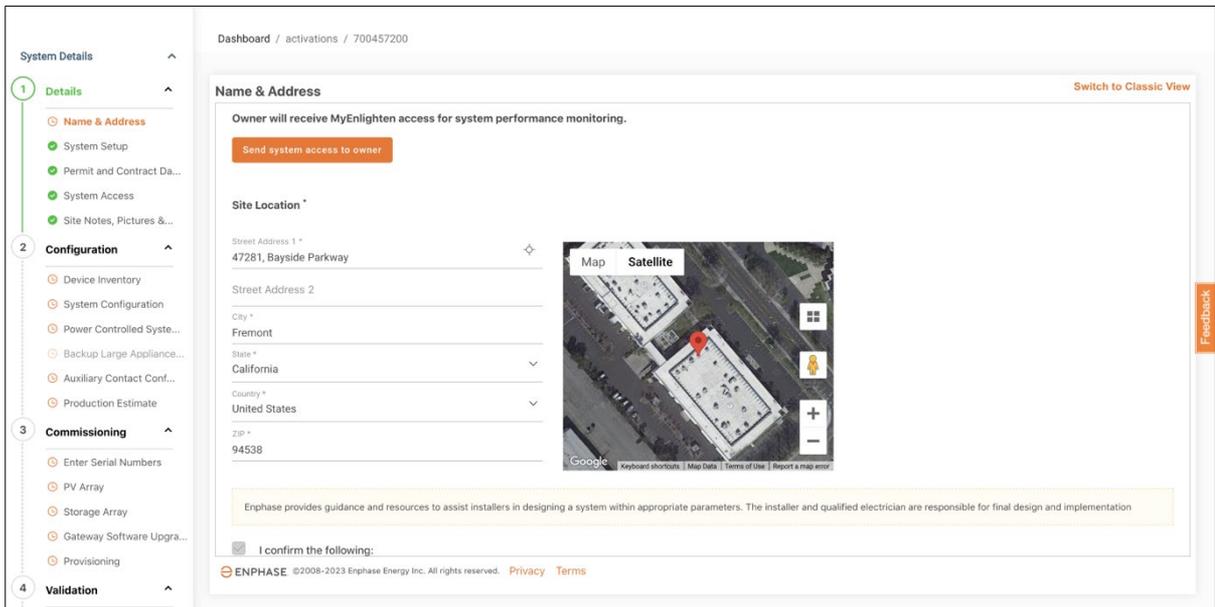
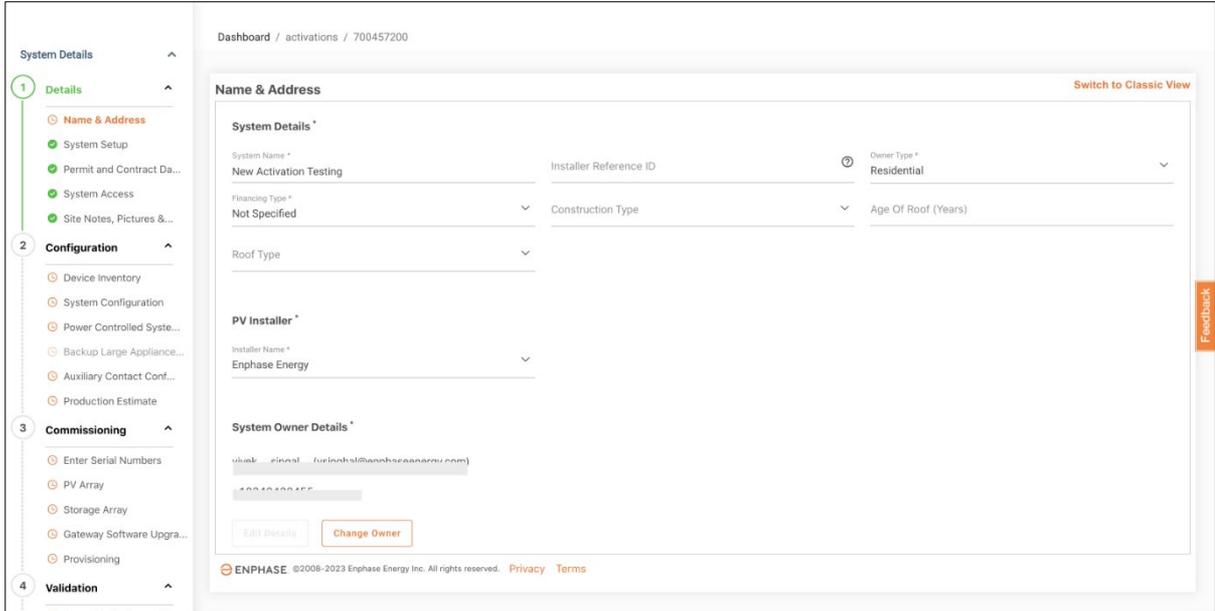
The following sections highlights the key functionalities that the user can perform.

Details section

The “Details” section can be filled remotely in the installer’s office. It can be filled by any salesperson or other appropriate installation company stakeholder. One would not need to visit the system location to fill this section. This section consists of the following pages:

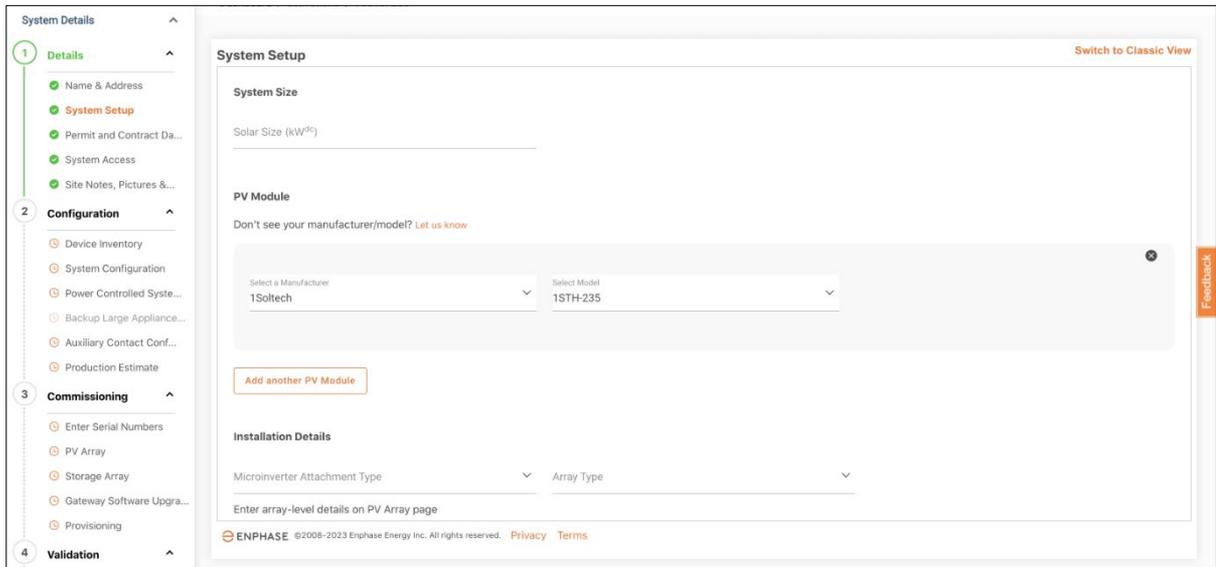
Name & Address

In the “Name & Address” section, the installer can create the system. To do so, the user must fill in relevant system details, such as the system name, owner type (residential or commercial systems), financing type (cash, loan, or PPA/leased), installer details, system owner and host details (if applicable), and the system address details.



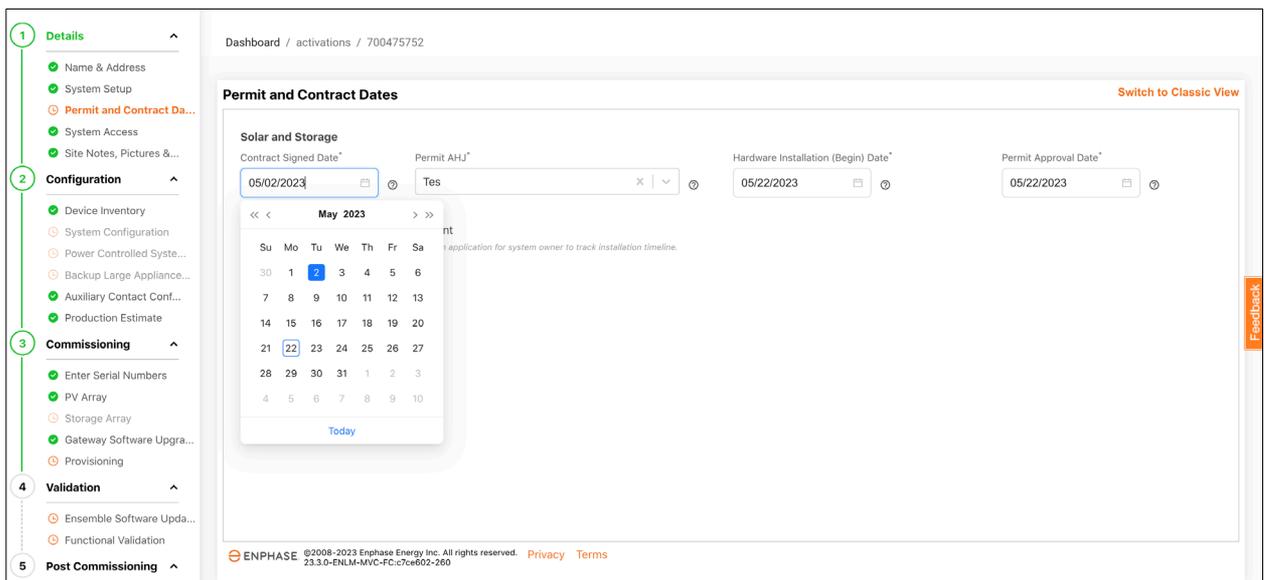
System Setup

In the “System Setup” section, the user must enter the system size and the details of the panel being installed (PV Module details).



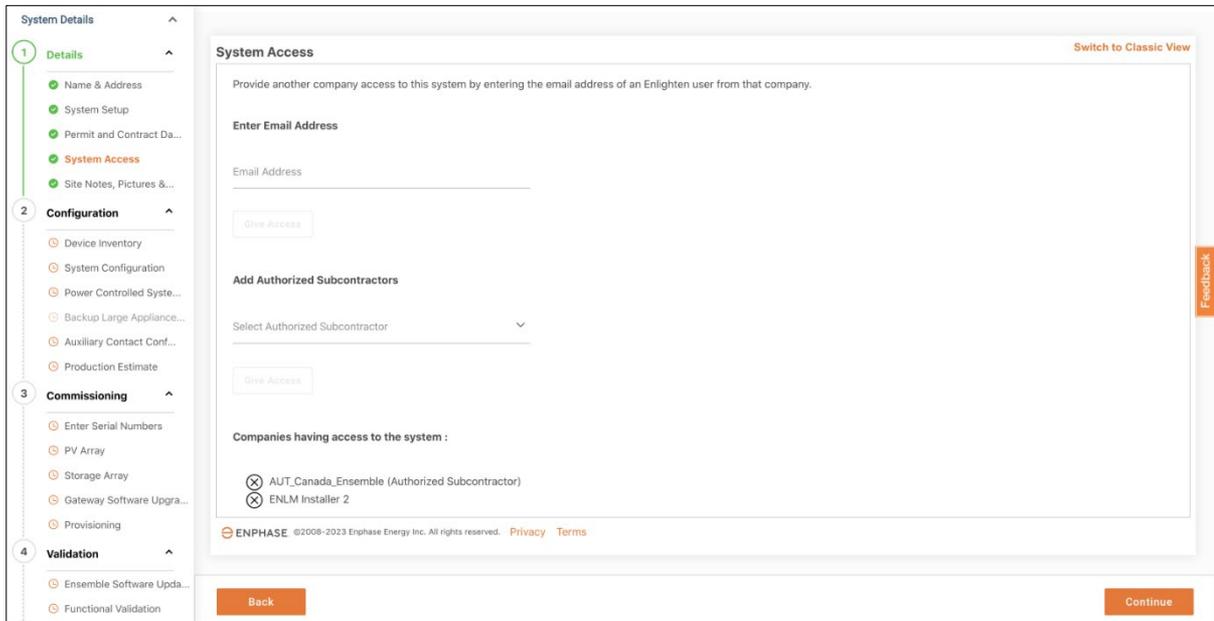
Permit and Contract Dates

In the “Permit and Contract Date” section, the user must fill in the permit and contract details. If solar and storage permit dates differ, the user must update the details accordingly.



System Access

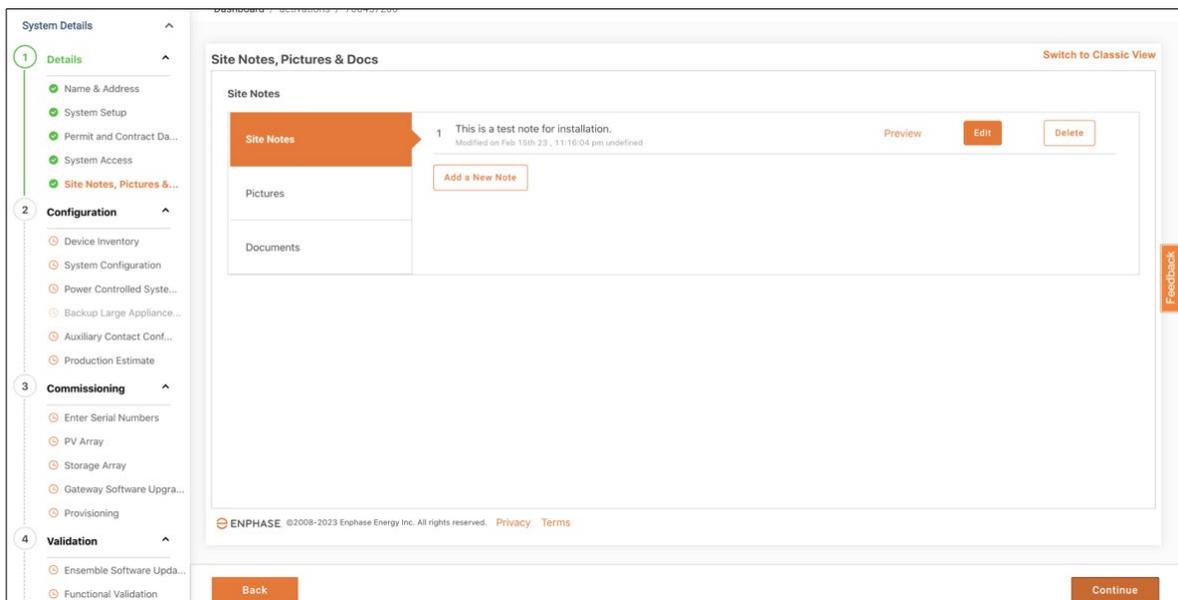
In the “System Access” section, users can provide third-party system access to other companies, as well as authorized subcontractors, if the commissioning responsibilities are being outsourced to them.



The screenshot shows the 'System Access' configuration page. On the left is a navigation menu with sections: 1. Details (Name & Address, System Setup, Permit and Contract Da..., System Access, Site Notes, Pictures &...), 2. Configuration (Device Inventory, System Configuration, Power Controlled Syste..., Backup Large Appliance..., Auxiliary Contact Conf..., Production Estimate), 3. Commissioning (Enter Serial Numbers, PV Array, Storage Array, Gateway Software Upgra..., Provisioning), and 4. Validation (Ensemble Software Upda..., Functional Validation). The main content area is titled 'System Access' and includes a 'Switch to Classic View' link. It contains instructions: 'Provide another company access to this system by entering the email address of an Enlighten user from that company.' There are two 'Give Access' buttons, one for 'Enter Email Address' and one for 'Add Authorized Subcontractors'. The 'Add Authorized Subcontractors' section has a dropdown menu and shows a list of 'Companies having access to the system' with checkboxes: AUT_Canada_Ensemble (Authorized Subcontractor) and ENLM Installer 2. At the bottom are 'Back' and 'Continue' buttons. A 'Feedback' button is on the right side.

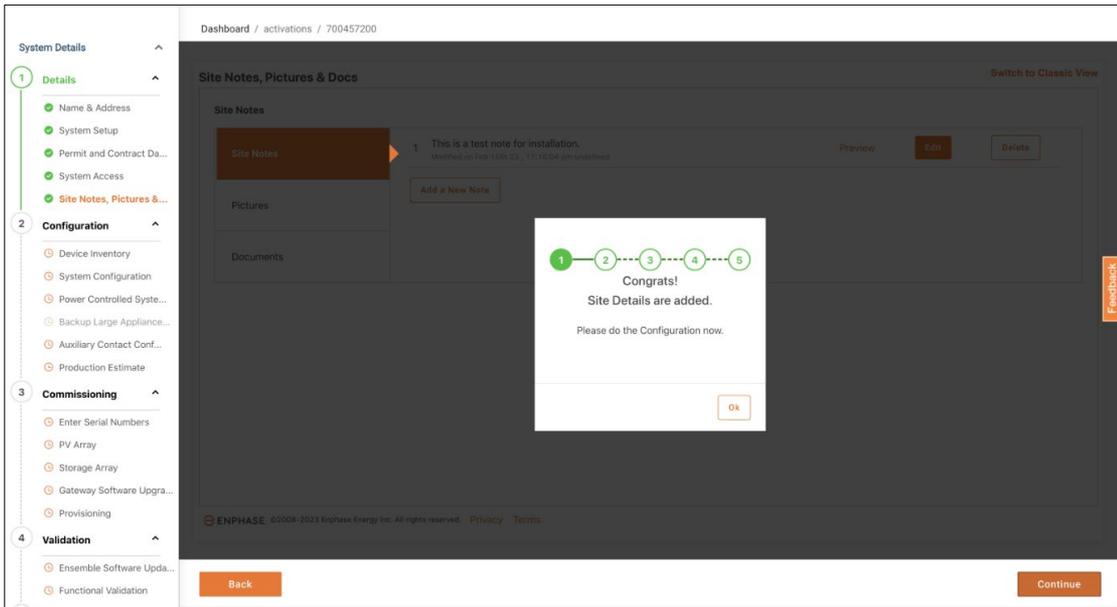
Site Notes, Pictures & Docs

In the “Sites Notes, Picture & Docs” section, users from the installer companies can add any notes, pictures, or documents pertaining to the system installation, which they can refer to later.



The screenshot shows the 'Site Notes, Pictures & Docs' configuration page. The navigation menu is the same as in the previous screenshot. The main content area is titled 'Site Notes, Pictures & Docs' and includes a 'Switch to Classic View' link. It features a 'Site Notes' section with a list of notes. The first note is: '1 This is a test note for installation. Modified on Feb. 15th 23, 11:19:04 pm undefined'. It has 'Preview', 'Edit', and 'Delete' buttons. Below the notes is an 'Add a New Note' button. There are also sections for 'Pictures' and 'Documents'. At the bottom are 'Back' and 'Continue' buttons. A 'Feedback' button is on the right side.

Once the “Details” section is filled out, the user can move on to the “Configuration” section.



Configuration section

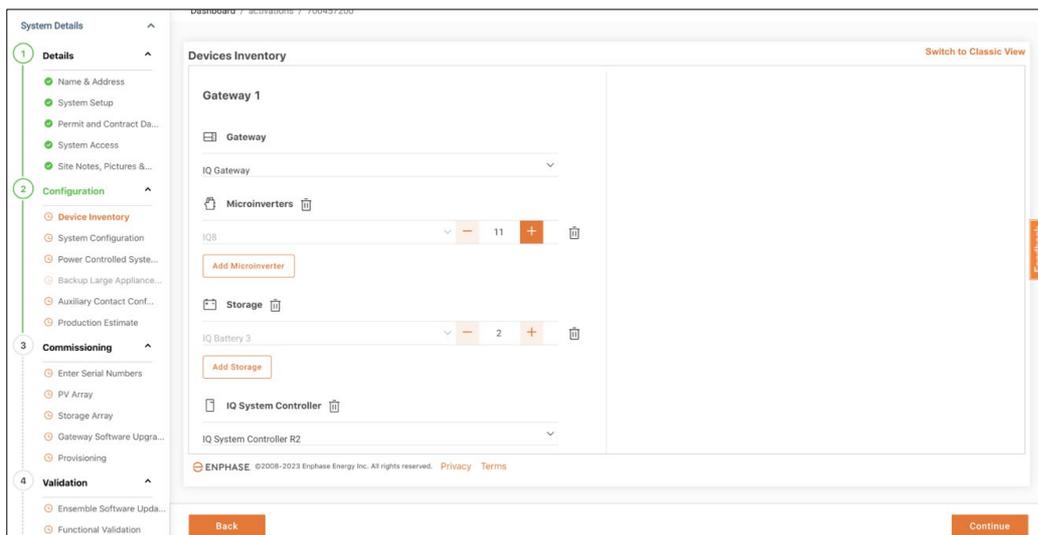
The “Configuration” section can be filled in by anyone at the installer’s office, preferably an operations person, after signing the contract with the homeowner. This “Configuration” section consists of the following pages:

1. Device Inventory
2. System Configuration
3. Power Controlled System
4. Auxiliary Contact Configuration
5. Production Estimate

Device Inventory

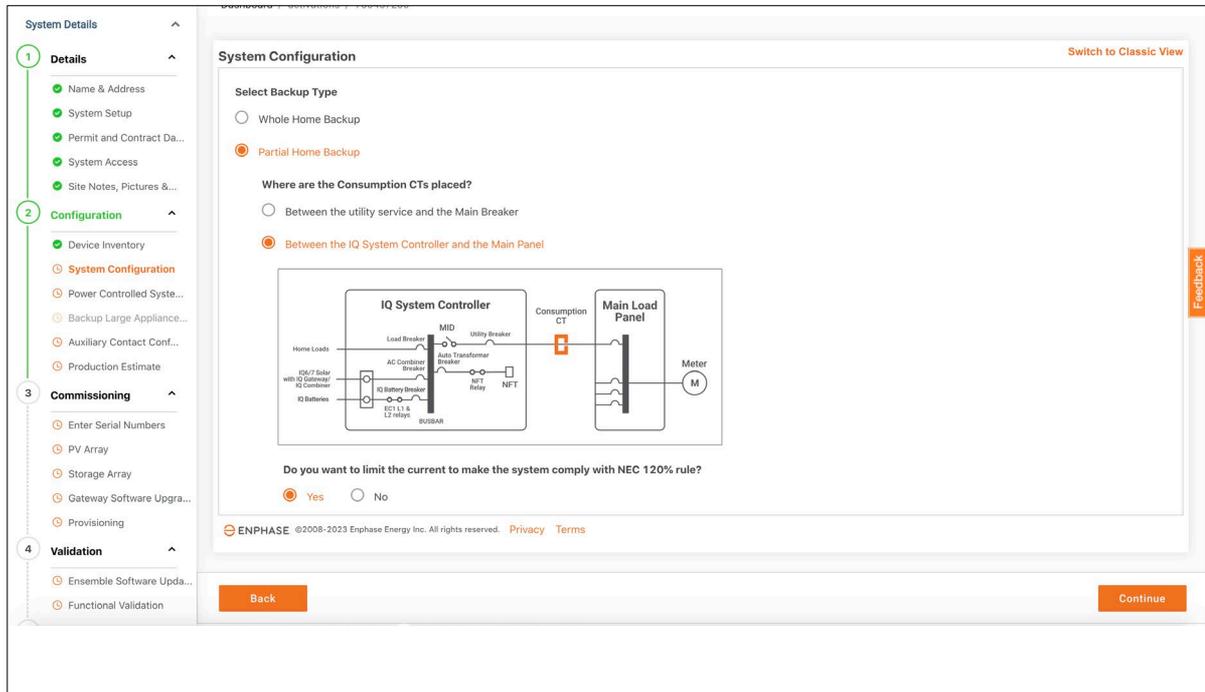
In the “Device Inventory” section, the user can fill in the details of the devices planned to be installed in the system. For example, if 10 microinverters are being installed in the system, the user must specify the type of microinverters that are being installed (IQ8, IQ7, and other types).

Here, validations are done in the background to ensure the installer does not proceed with device combinations not currently supported at Enphase. Additionally, wherever applicable, checks like the PV-ESS ratio (microinverter size to storage size) are performed, and if violated, recommendations for corrective actions are also provided.



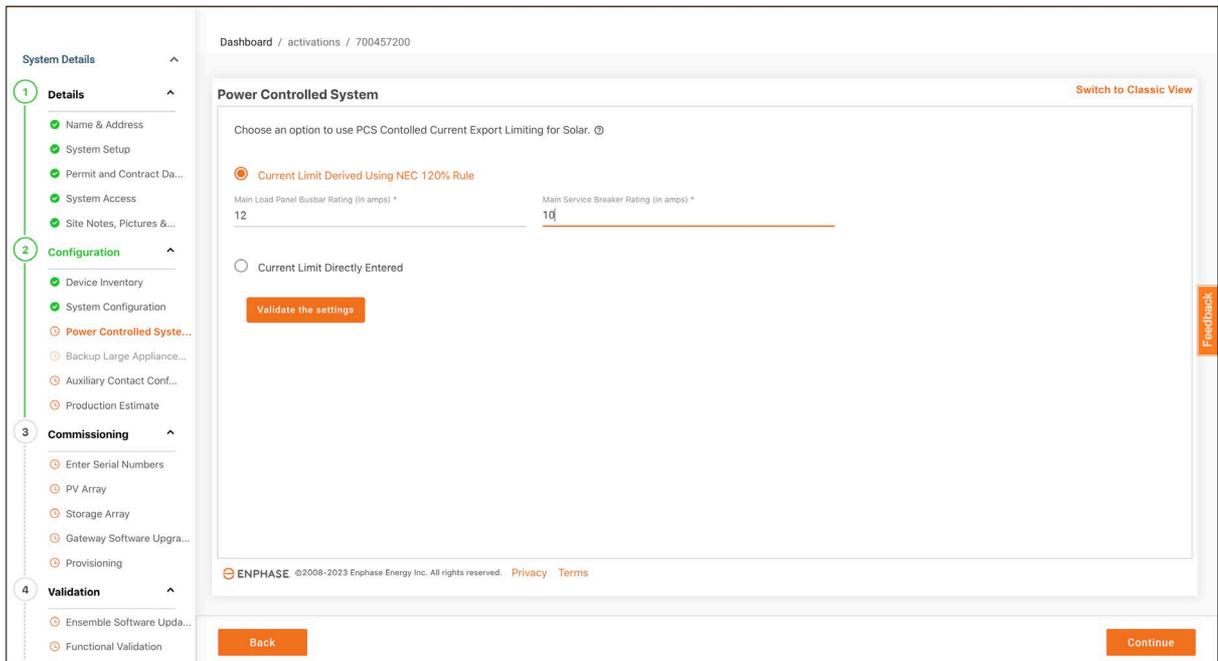
System Configuration

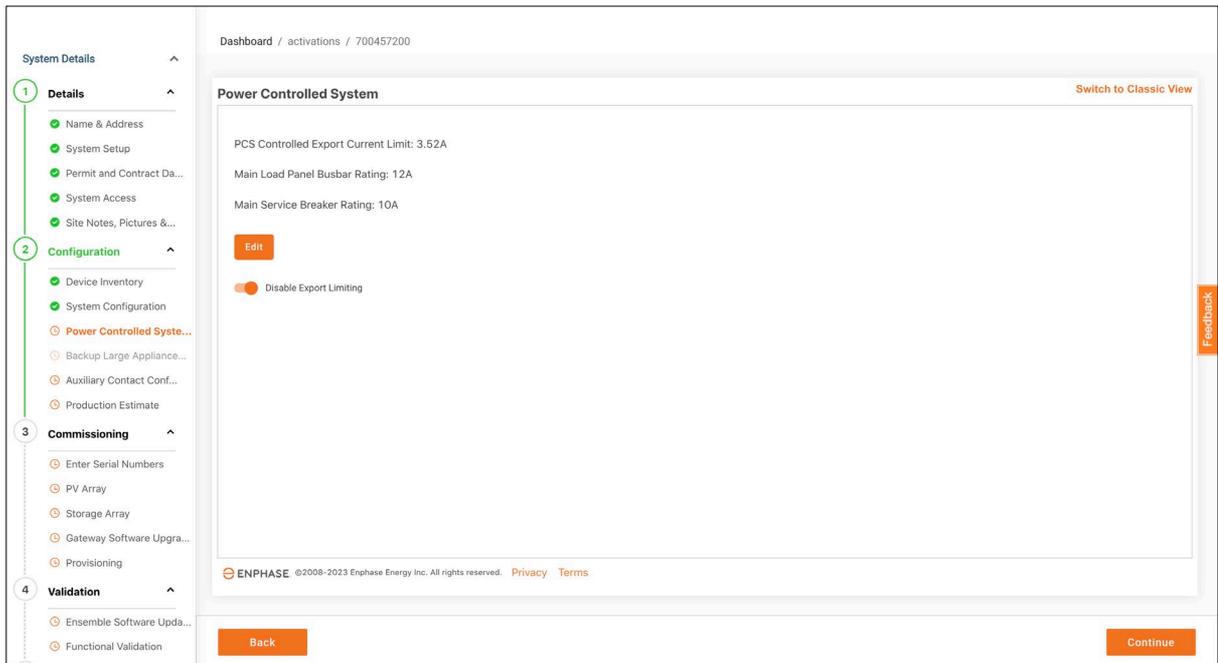
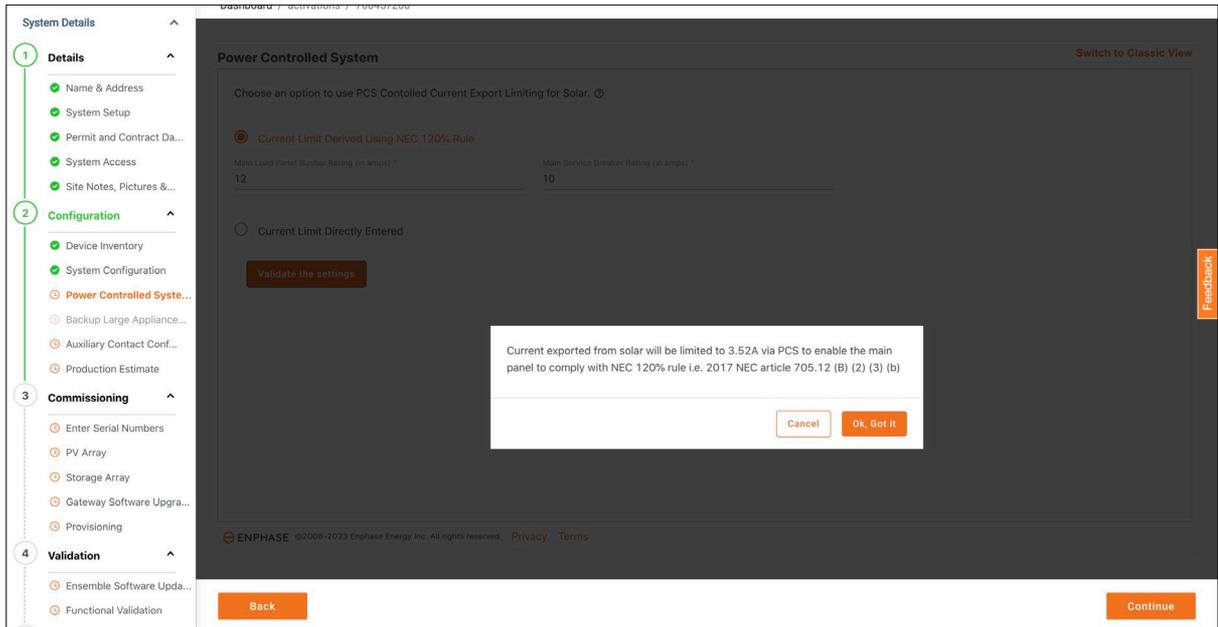
In the “System Configuration” section, the user can fill in details of the backup of the system, specify where the Consumption CTs are placed, and decide whether to make the system compliant with the NEC 120% rule.



Power Controlled System

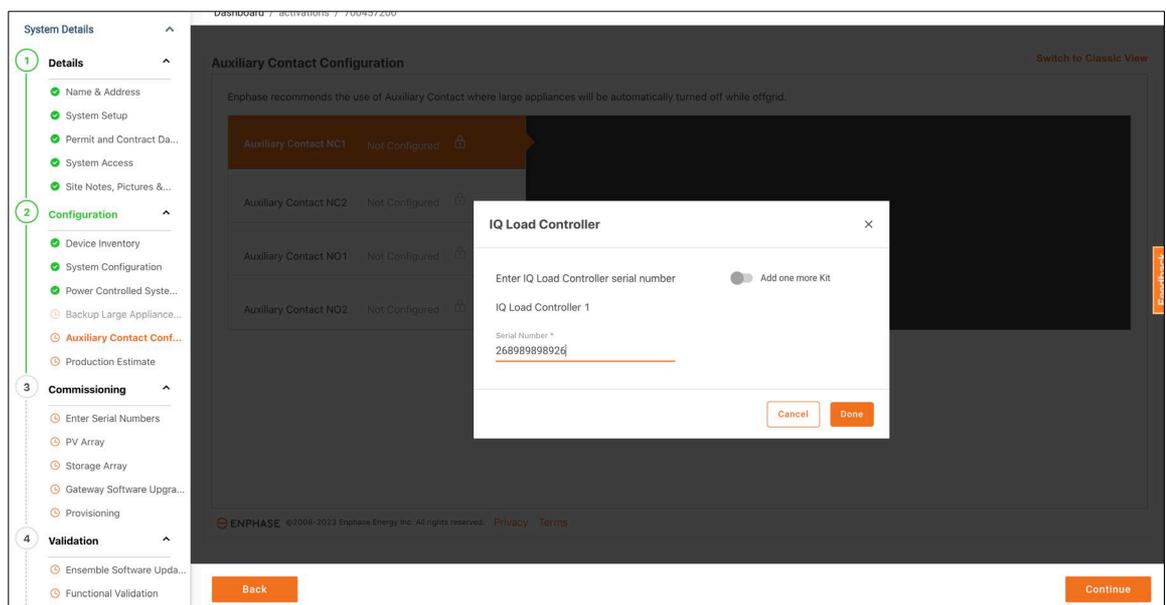
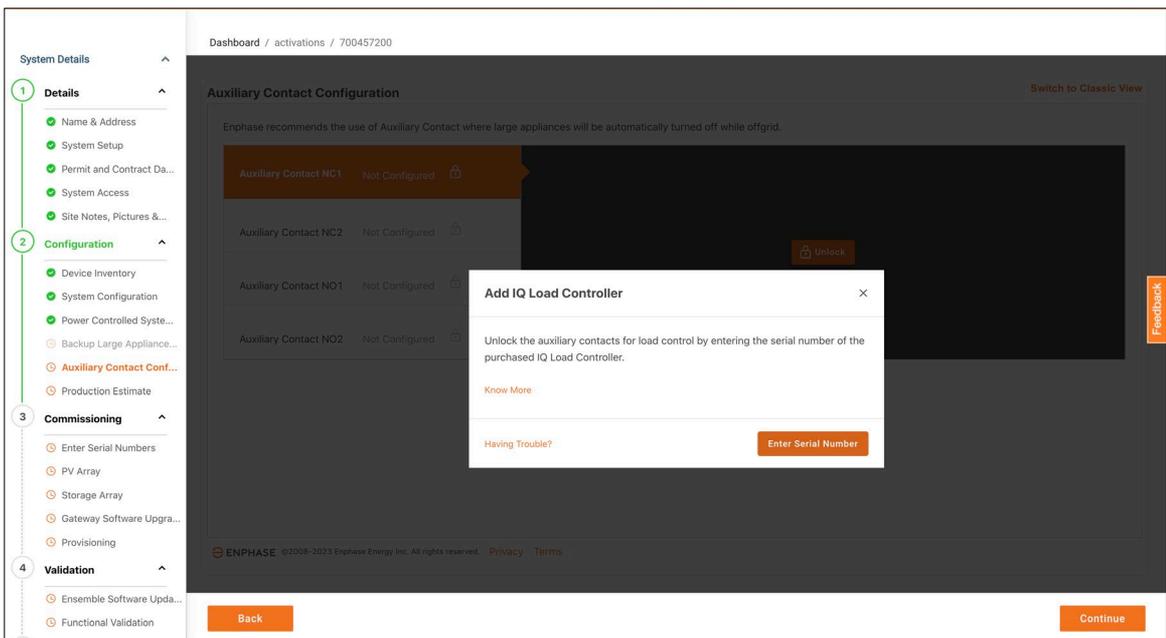
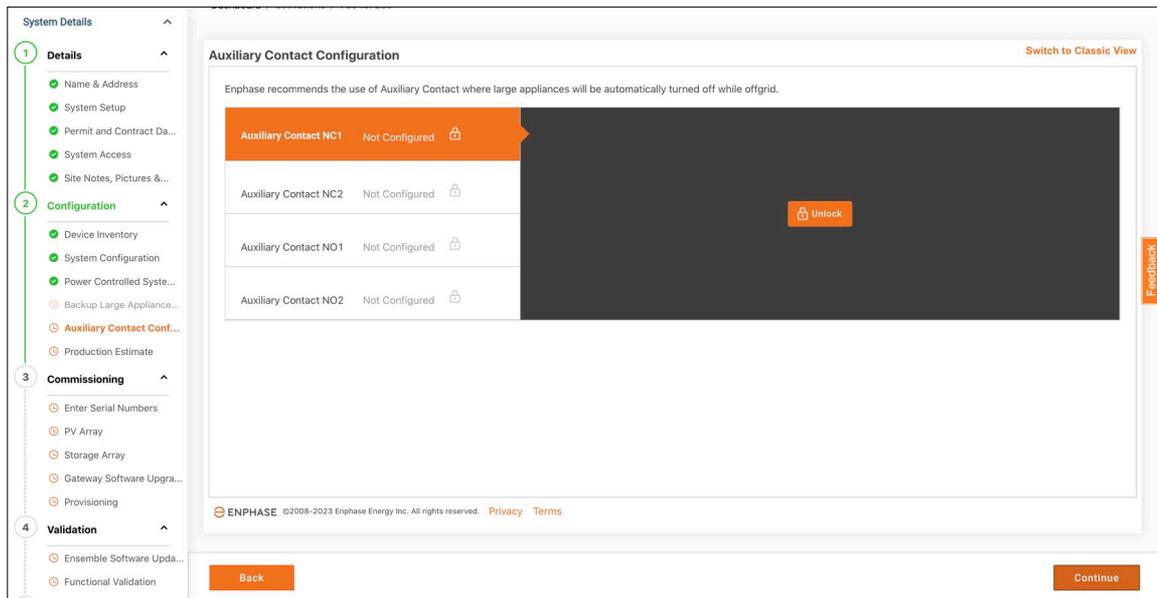
In the Power Controlled System, based on the NEC 120% rule, the user can either directly enter the current limit or find it out by entering the main load panel breaker rating and main service breaker rating.

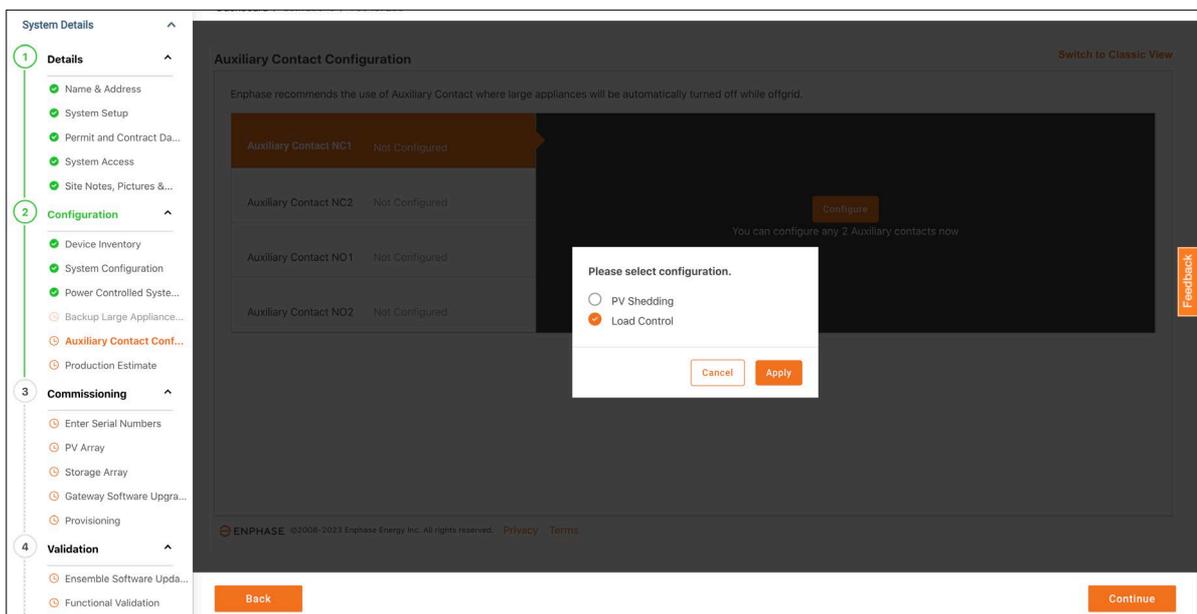
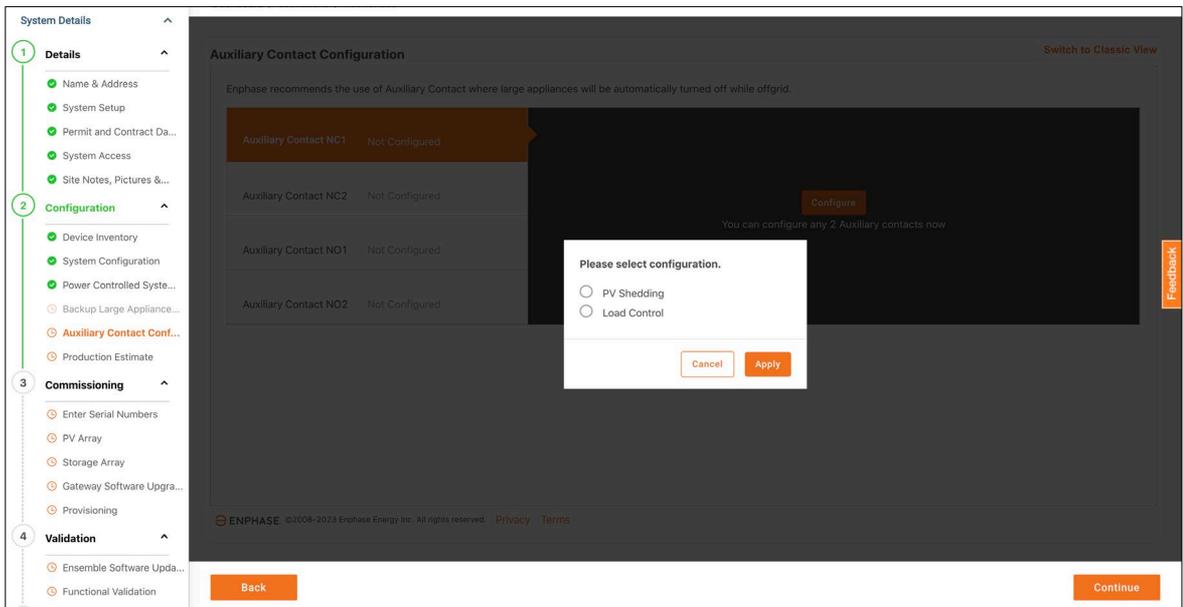
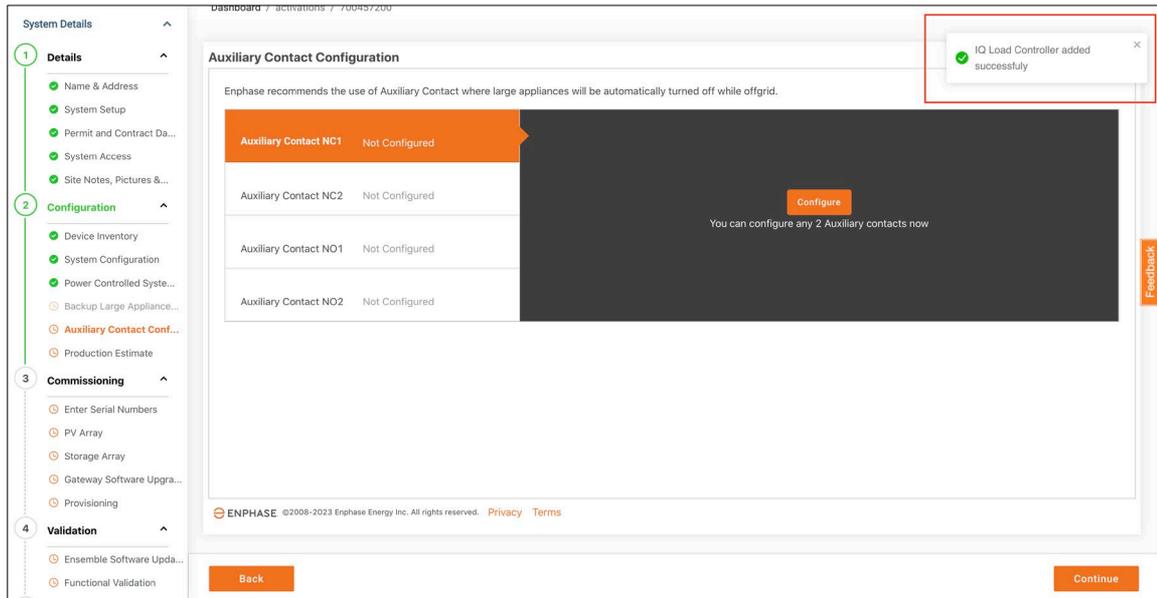


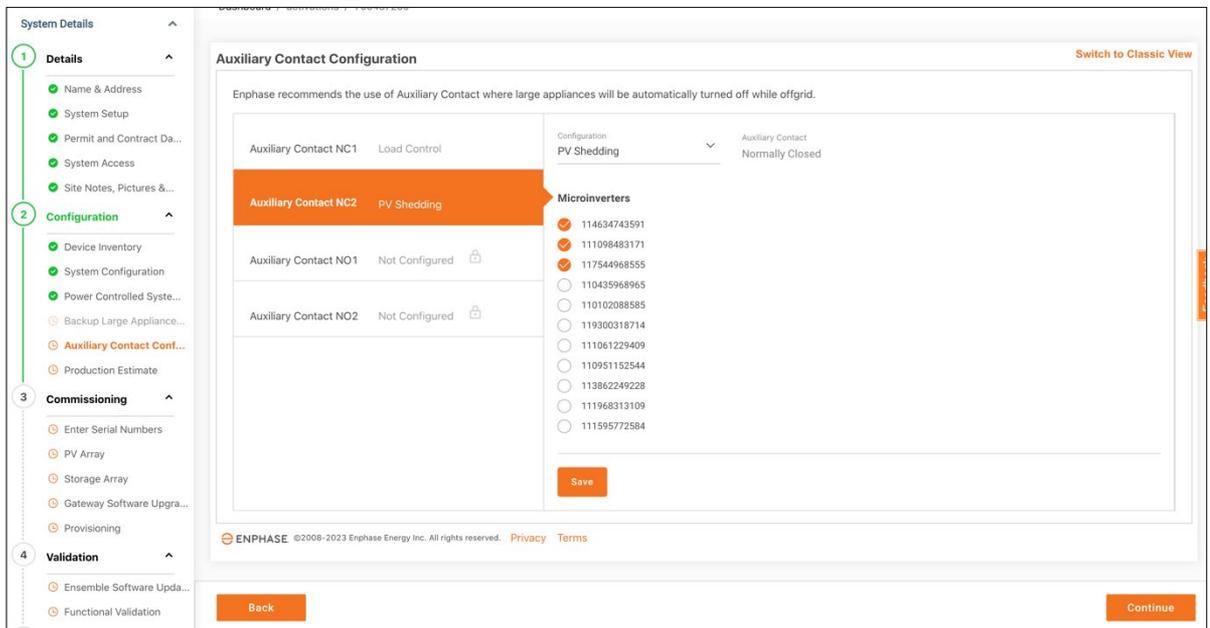
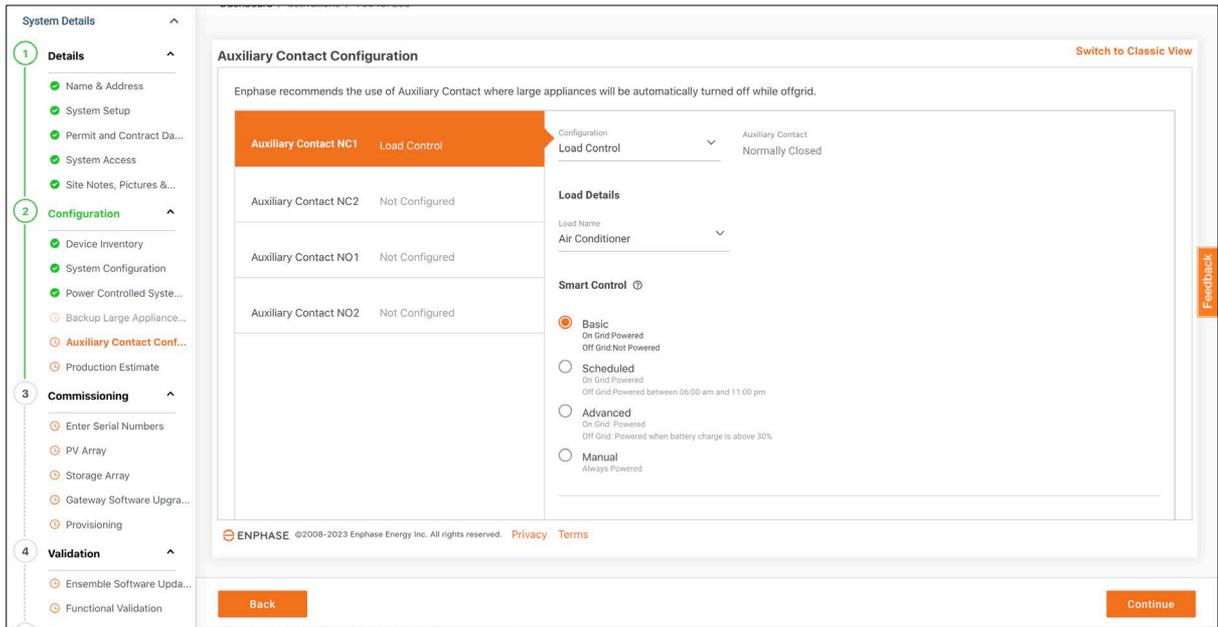


Auxiliary Contact Configuration

In the “Auxiliary Contact Configuration” section, the user can enter details of the load control kit and configure it even before visiting the site. The auxiliary contact can be unlocked by entering the serial number of the load control kit, and then, consequently, be configured. The user can choose to do PV shedding or load shedding configuration.



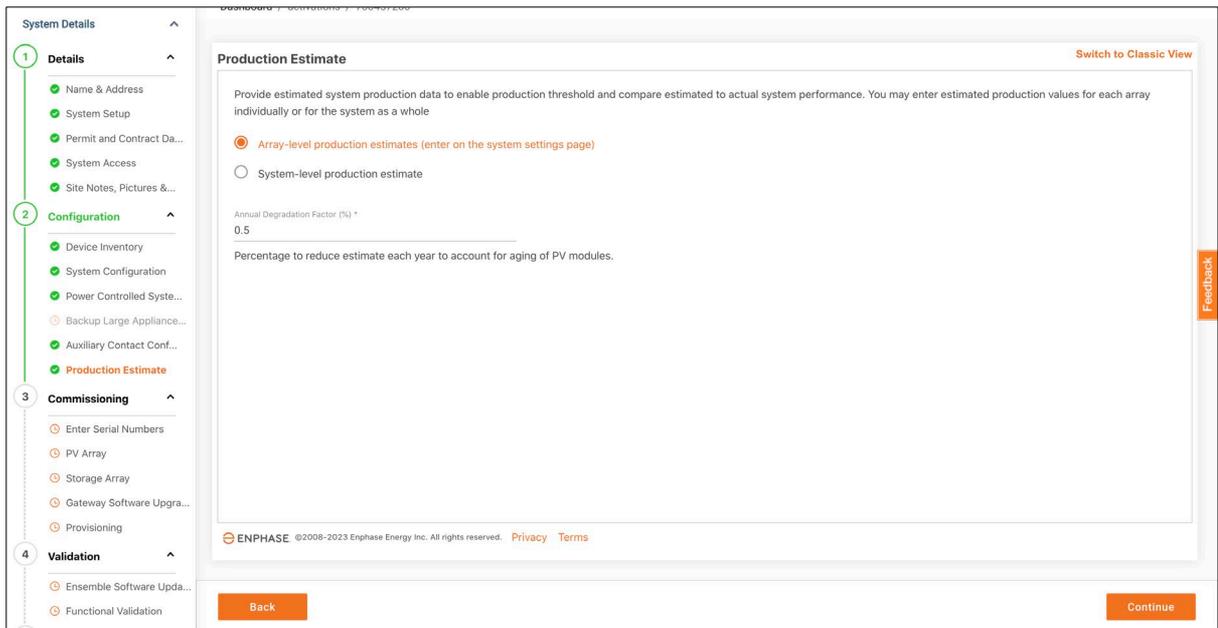




In this section, if the PV shedding option is selected, the user will be asked to specify the microinverters required for PV shedding. If microinverter serial numbers have not been scanned/entered by the user, the user shall be prompted to specify the microinverters for PV shedding after they are scanned later in the “Enter Serial Numbers” page.

Production Estimate

In the “Production Estimate” section, the user can add the production estimates for the system.



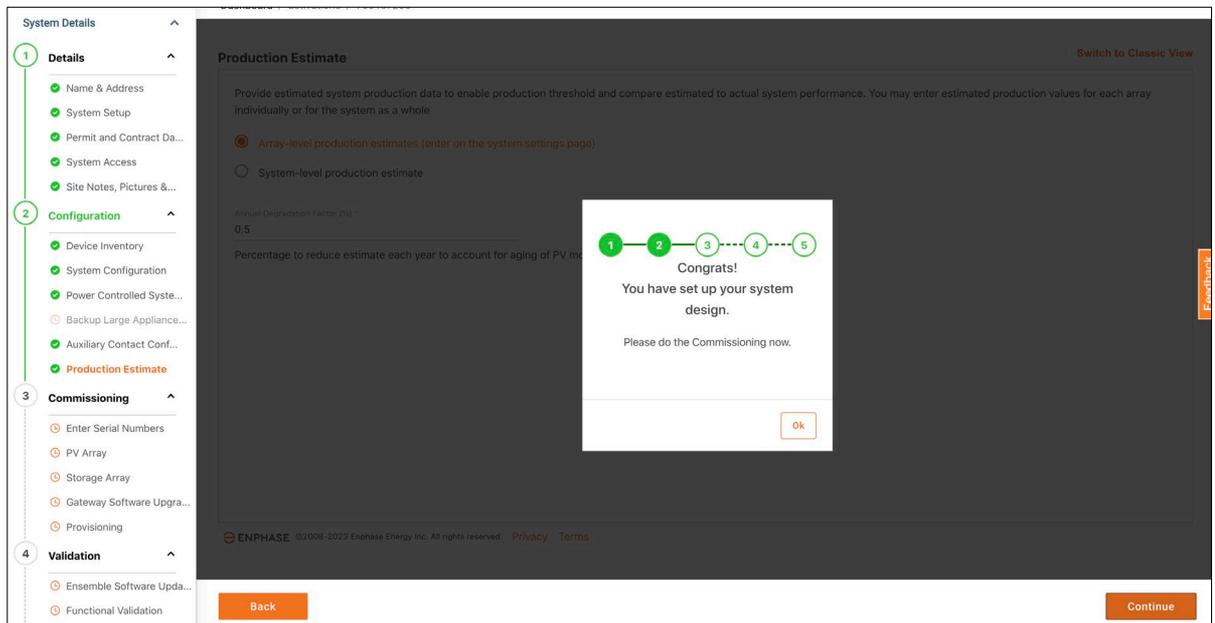
Commissioning section

This “Commissioning” section can be filled in by an operations person at the installer’s office during or after the site installation. Commissioning tasks that can be performed remotely can be executed in this section.

This “Commissioning” section consists of the following pages:

1. Enter Serial Number
2. PV Array
3. Gateway Software Update
4. Provisioning

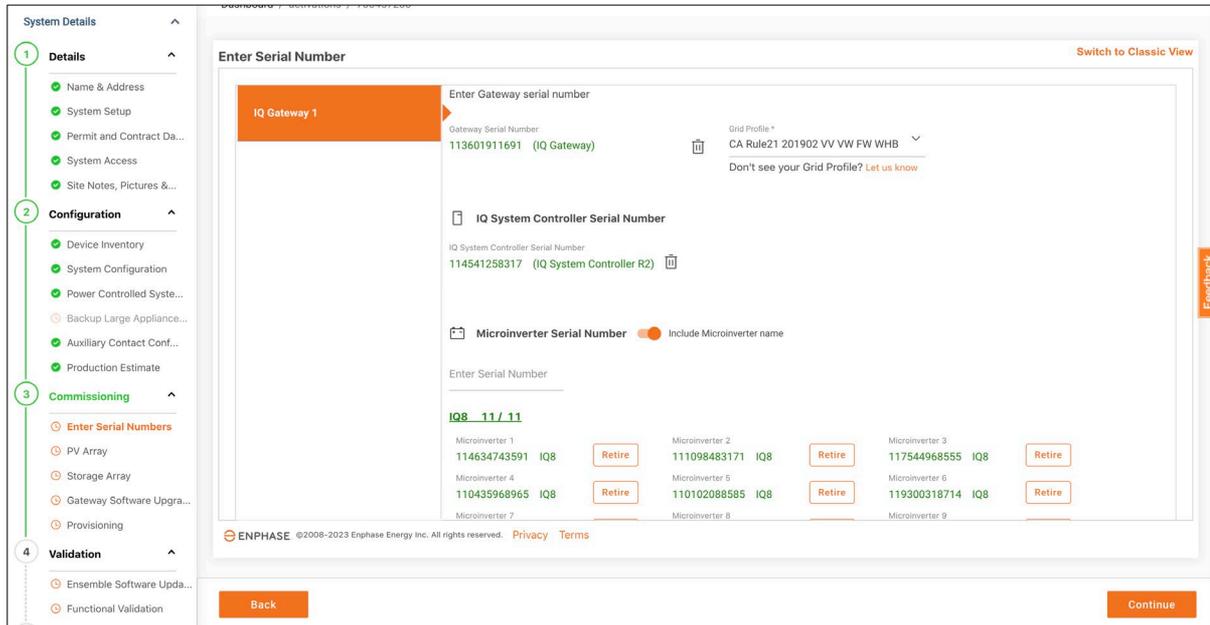
Once the above steps are completed, the user can move on to the "Commissioning" page:



Enter Serial Number

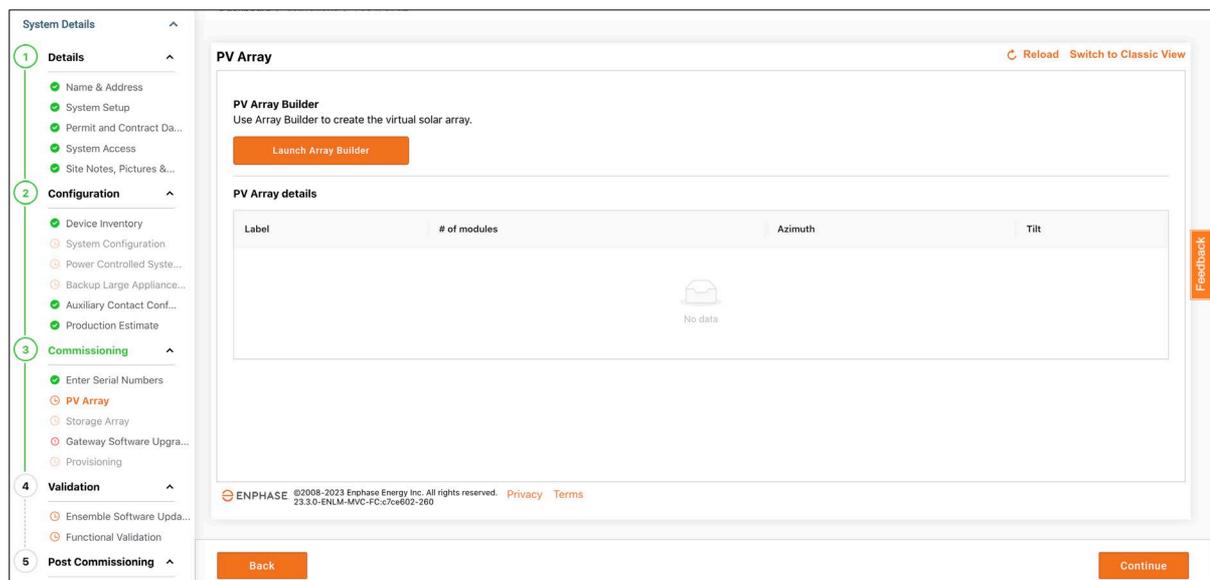
In the “Enter Serial Number” section, the user can enter the serial numbers of the devices he or she had entered on the “Device Inventory” page. The three types of validations are performed on this page:

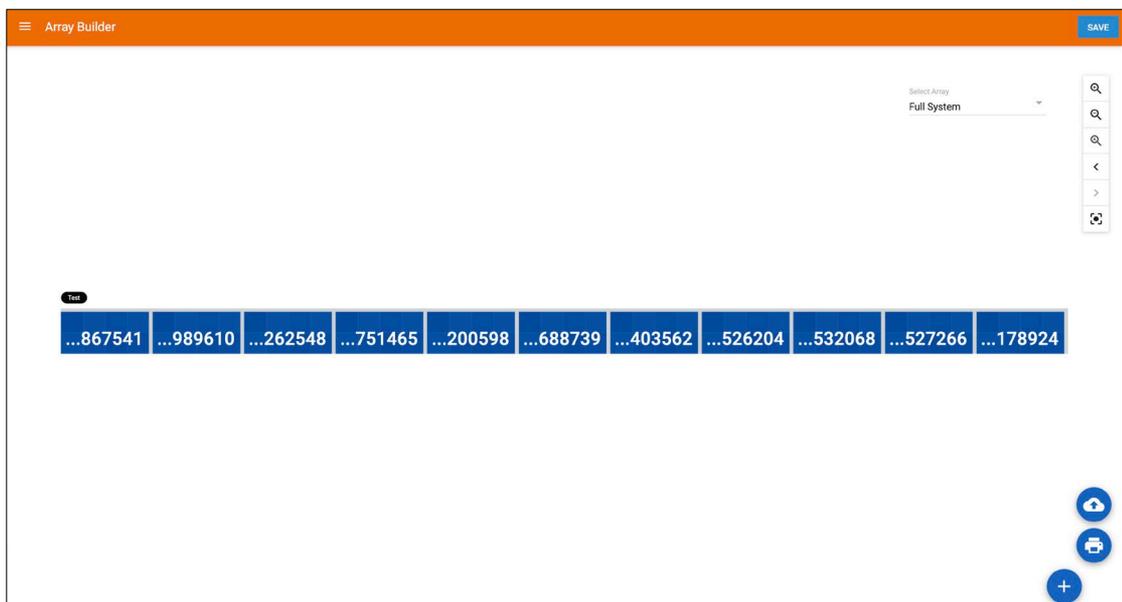
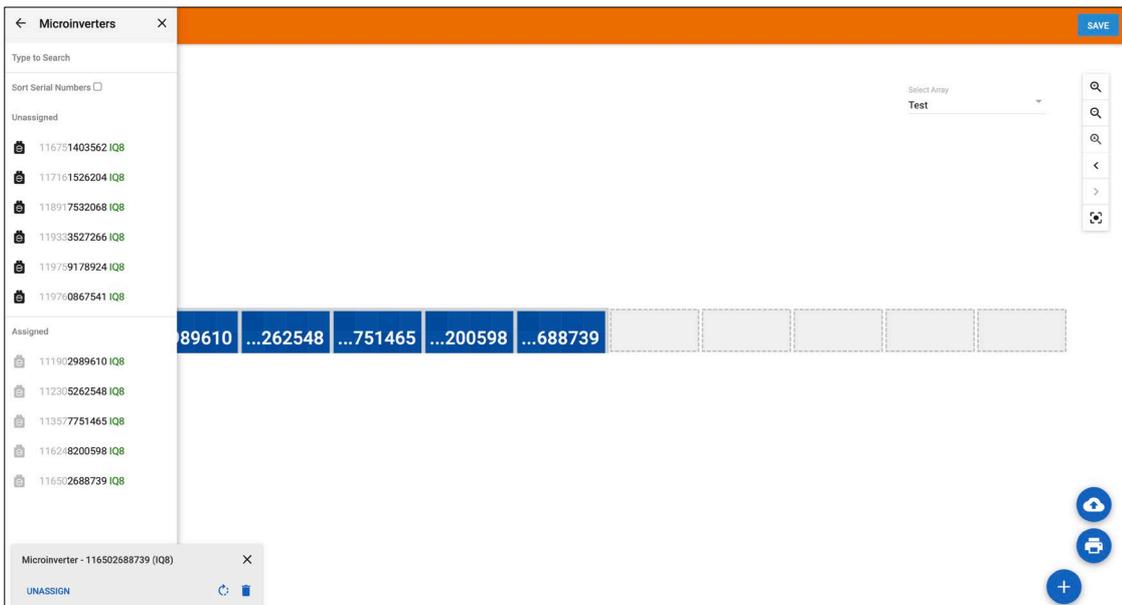
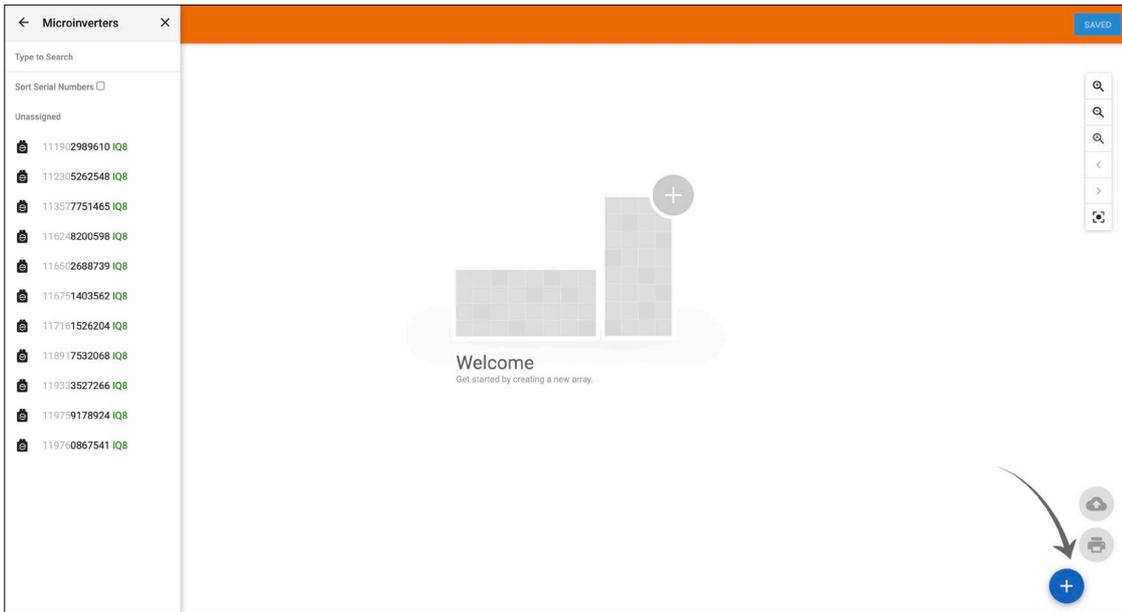
1. The serial number entered belongs to a valid Enphase device.
2. The serial number entered corresponds to a device present on the “Device Inventory” page.
3. The serial number entered exists in another system.

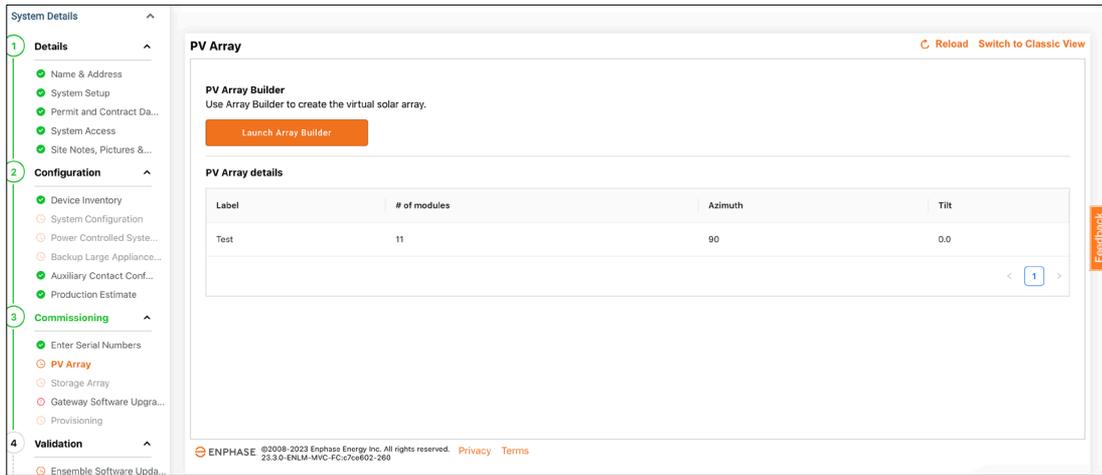


PV Array

In the “PV Array” section, the user can create arrays. The serial number details already filled in earlier shall be present in the “Unassigned” section of “PV Array Builder”.



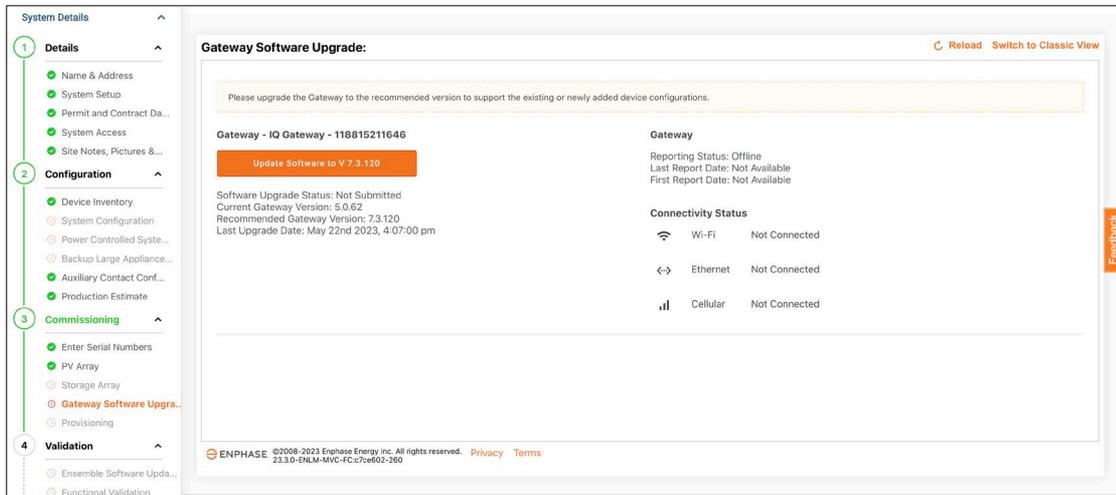




Gateway Software Upgrade

In the “Gateway Software Upgrade” section, a user can perform the following functions:

- Check the reporting status of the Gateway
- Check the present Gateway firmware version
- Trigger a task to upgrade the Gateway firmware version if the current Gateway version is older than the recommended version and the Gateway reporting status is online.



1 Details

- ✔ Name & Address
- ✔ System Setup
- ✔ Permit and Contract Dates
- ✔ System Access
- ✔ Site Notes, Pictures & Docs

2 Configuration

- ✔ Device Inventory
- ✔ System Configuration
- ✔ Power Controlled System (Optional)
- ✔ Backup Large Appliances (Optional)
- ✔ Auxiliary Contact Configuration
- ✔ Production Estimate

3 Commission

- ✔ Enter Serial Numbers
- ✔ PV Array
- ✔ Storage Array
- 🕒 **Gateway Software Update**

Gateway Software Upgrade

Please upgrade the Gateway to the recommended version to support the existing/newly added device configurations.

IQ Gateway - 122015012228

🔄 Updating Firmware to V 7.03.120

Software Upgrade Status : Upgrade in Progress
 Current Gateway Version : 4.10.35
 Recommended Gateway Version : 7.03.120
 Last Upgrade Date : 11/02/2020 12:25 AM PST

Gateway status

Reporting Status: Device Online
 Last Report Date: 11/02/2020 12:25 AM PST
 First Report Date: 04/16/2020 05:00 AM PST

Connectivity Status

- 📶 Wi-Fi
- ↔ Ethernet
- 📶 Cellular

[< Back](#)

1 Details

- ✔ Name & Address
- ✔ System Setup
- ✔ Permit and Contract Da...
- ✔ System Access
- ✔ Site Notes, Pictures &...

2 Configuration

- ✔ Device Inventory
- 🕒 System Configuration
- 🕒 Power Controlled Syste...
- 🕒 Backup Large Appliance...
- ✔ Auxiliary Contact Conf...
- ✔ Production Estimate

3 Commissioning

- ✔ Enter Serial Numbers
- ✔ PV Array
- 🕒 **Gateway Software Upgra...**
- 🕒 Provisioning

4 Validation

- 🕒 Ensemble Software Upda...
- 🕒 Functional Validation

5 Post Commissioning

Dashboard / activations / 700475752

Gateway Software Upgrade:

[🔄 Reload](#) [Switch to Classic View](#)

Gateway - IQ Gateway - 118815211646

Software is up-to-date

Software Upgrade Status: COMPLETED
 Current Gateway Version: 7.3.120
 Recommended Gateway Version: 7.3.120
 Last Upgrade Date: May 22nd 2023, 10:25:19 pm

Gateway

Reporting Status: Offline
 Last Report Date: 22-05-2023
 First Report Date: 22-05-2023

Connectivity Status

📶	Wi-Fi	Not Connected
↔	Ethernet	Not Connected
📶	Cellular	Not Connected

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 23.3.0-ENLM-MVC-FC:c7c9#02-260

Feedback

Provisioning

For devices in which remote provisioning is possible, users can trigger a provisioning task for the respective device from this page. Currently, we only support microinverter provisioning from this page. Once the provisioning is complete, it will be reflected on this page.



NOTE: There are of two different sites and are purely for illustration purposes as shown in the images.

Dashboard / activations / 700475752

Provisioning Reload Switch to Classic View

Microinverter1	Microinverter2	Microinverter3	Microinverter4	Microinverter5
111902989610	112305262548	113577751465	116248200598	116502688739
116751403562	117161526204	118917532068	119333527266	119759178924
119760867541				

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Back Continue

Dashboard / activations / 700475752

Provisioning Reload Switch to Classic View

Microinverter1	Microinverter2	Microinverter3	Microinverter4	Microinverter5	Microinverter6	Microinverter7
111902989610	112305262548	113577751465	116248200598	116502688739	116751403562	117161526204
Provisioned April 14th 2021, 12:55:06 pm						
Microinverter8	Microinverter9	Microinverter10	Microinverter11			
118917532068	119333527266	119759178924	119760867541			
Provisioned April 14th 2021, 12:55:06 pm						

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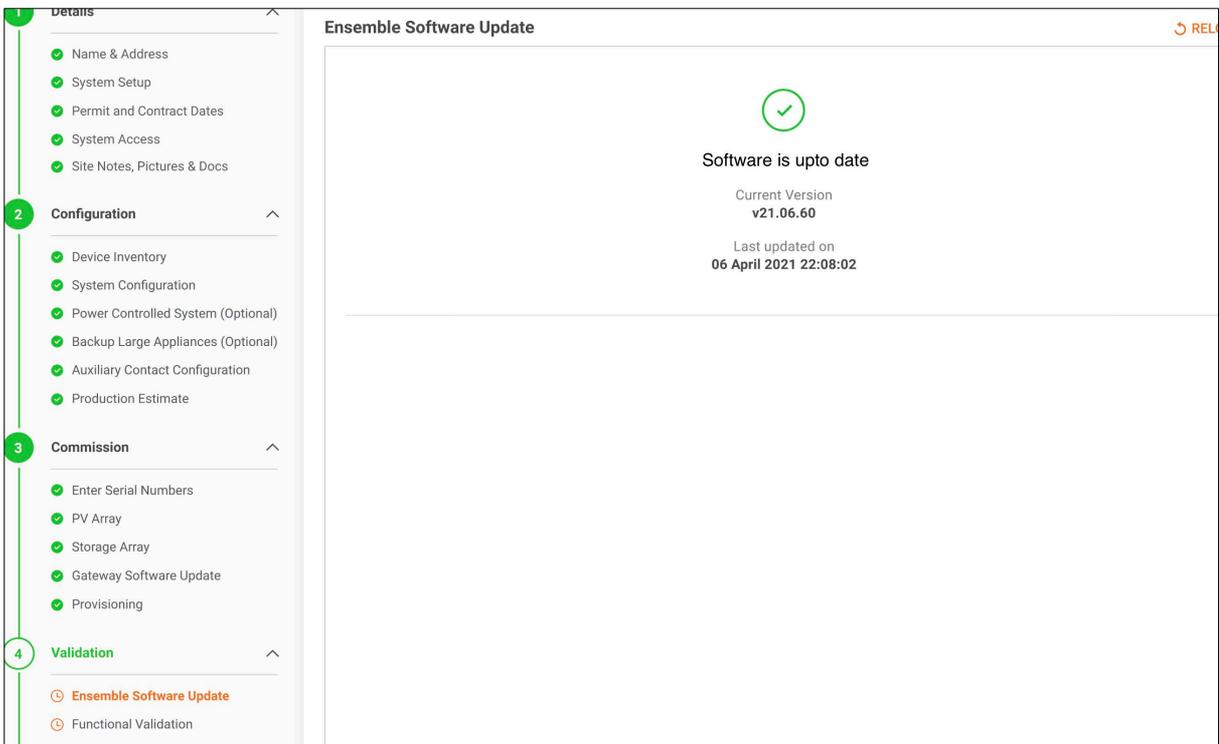
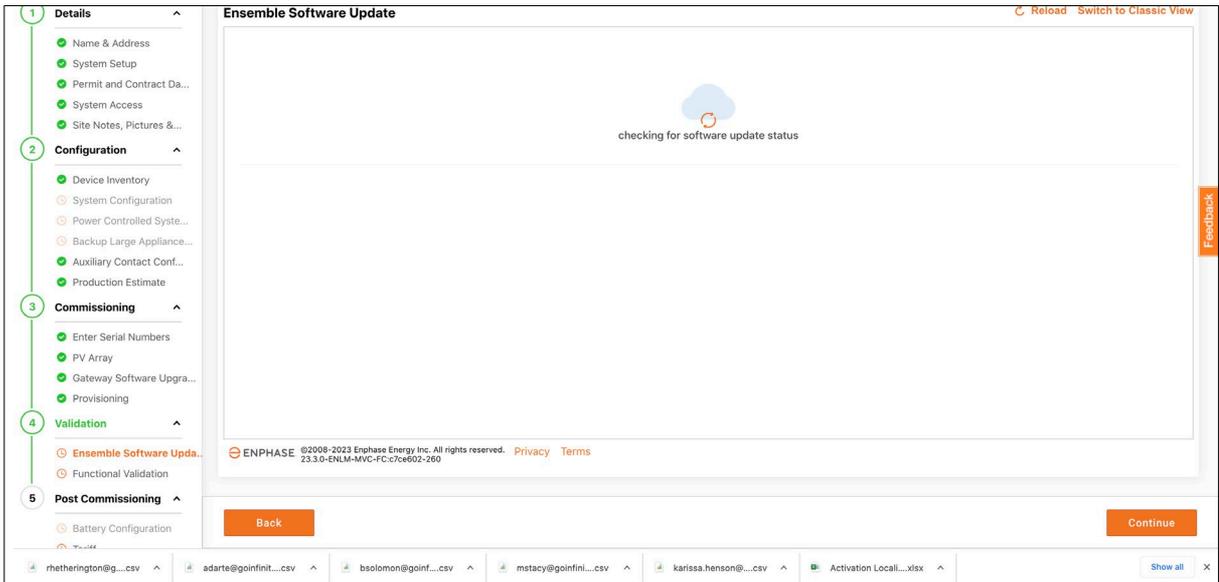
Validation section

The “Validation” section can be observed by the installers remotely or at the site (depending on the use case) post the completion of commissioning activities at the site. This section consists of the following pages:

1. Ensemble Software Update
2. Functional Validation

Ensemble Software Update

This page informs the user regarding the firmware version of the 'Ensemble' system that has been installed. It also informs the user if the system is up-to-date as well as the date the software was updated. This is only applicable to Ensemble systems (Enphase Energy Systems).



Functional Validation

This section, “Functional Validation”, informs the user of the latest functional validation status, as well as the timestamp, Enphase Installer App (Installer Toolkit) version, and OS details (Android or iOS).

The screenshot shows the 'Functional Validation' section of the installer app. On the left, a navigation menu is visible with four main sections: 1. Details, 2. Configuration, 3. Commission, and 4. Validation. The 'Validation' section is expanded, showing 'Ensemble Firmware Update' and 'Functional Validation' (which is highlighted in orange with a warning icon). The main content area is titled 'Functional Validation' and contains a yellow warning box stating: 'This is a 6-step process and needs to be initiated and completed from the Enphase Installer Application (ITK)'. Below this, the 'Current Status' is displayed as follows:

```

ITK Version : 3.27.0(51)
OS Version : iOS 16.0 (20A362)
Time Stamp : 12/31/1969 06:00 PM CST
Status      : Pending
    
```

The screenshot shows the 'Functional Validation' section of the installer app after completion. The navigation menu on the left is identical to the previous screenshot. The main content area is titled 'Functional Validation' and features a large green checkmark icon at the top center. Below the icon, the text reads: 'Functional Validation is Completed'. The 'Current Status' section below shows the following information:

```

ITK Version : 3.27.0(51)
OS Version : iOS 16.0 (20A362)
Time Stamp : 12/31/1969 06:00 PM CST
Status      : Completed
    
```

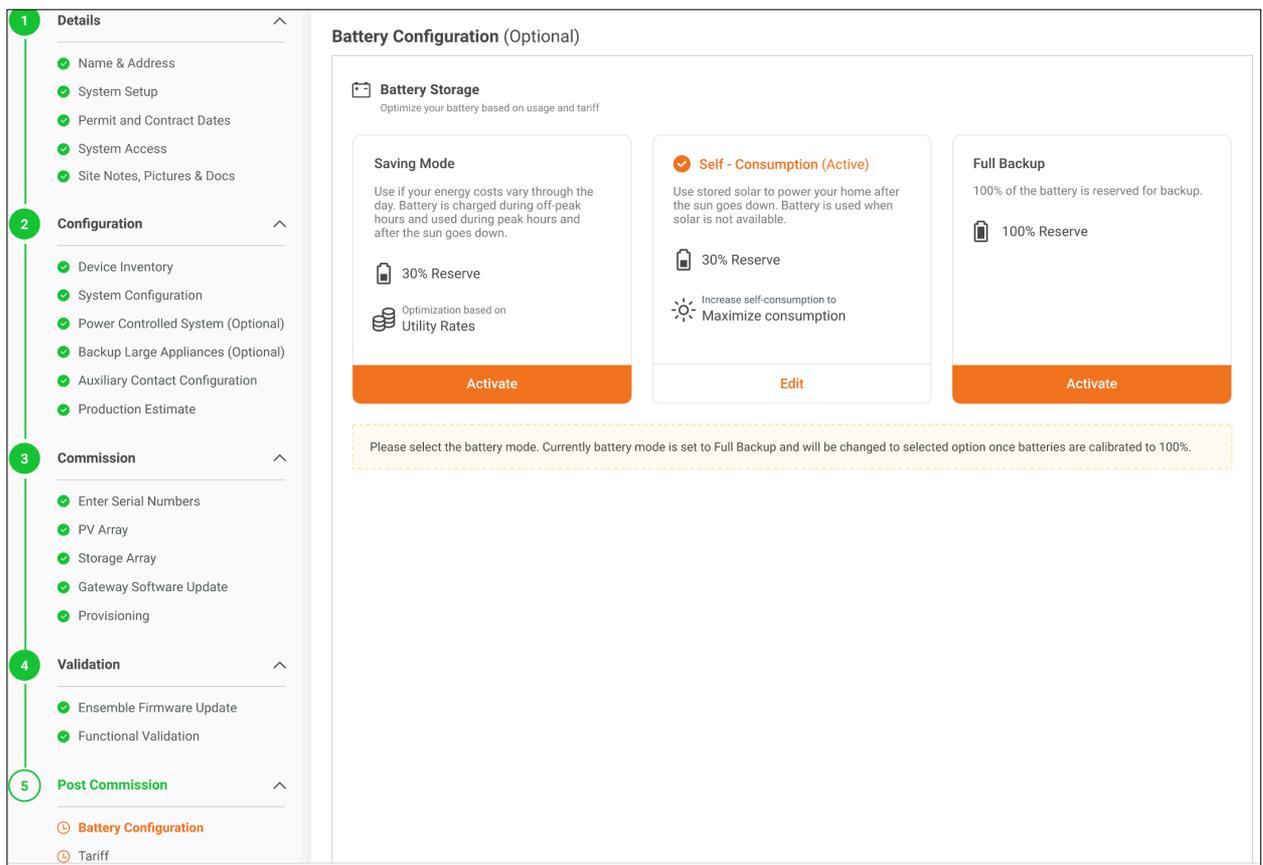
Post Commissioning section

The installers can fill in this “Post Commissioning” section after completing the commissioning. Like the “Validation” section, installers can fill out this page at their office or the site location. This section consists of the following pages:

1. Battery Configuration (Optional)
2. Tariff
3. Installation Map (Optional)
4. Summary Report
5. Homeowner Walk-through

Battery Configuration (Optional)

In this “Battery Configuration (Optional)” section, installers can update the battery configuration details for the recently installed system.



The screenshot shows the 'Battery Configuration (Optional)' section of the installer interface. On the left is a navigation sidebar with five main sections: 1. Details, 2. Configuration, 3. Commission, 4. Validation, and 5. Post Commission. The 'Post Commission' section is currently active, with 'Battery Configuration' and 'Tariff' listed as sub-items. The main content area is titled 'Battery Configuration (Optional)' and contains a 'Battery Storage' section with the instruction 'Optimize your battery based on usage and tariff'. There are three configuration cards: 'Saving Mode' (with a 30% Reserve option and an 'Activate' button), 'Self - Consumption (Active)' (with a 30% Reserve option, an 'Edit' button, and a 'Maximize consumption' toggle), and 'Full Backup' (with a 100% Reserve option and an 'Activate' button'). A yellow dashed box at the bottom contains a warning: 'Please select the battery mode. Currently battery mode is set to Full Backup and will be changed to selected option once batteries are calibrated to 100%'.

Tariff

In the “Tariff” section, installers can update the tariff details that are relevant to the system that has been installed. This information can be later utilized to optimize savings or maximize energy independence, depending on the homeowner's preferences.

Installation Map (Optional)

This section is intended for the installers to update any details relating to the site map, IQ Battery map, single-line diagrams of the installed system, main service panel details, or any other additional documents as may seem fit.

1 Details

- Name & Address
- System Setup
- Permit and Contract Dates
- System Access
- Site Notes, Pictures & Docs

2 Configuration

- Device Inventory
- System Configuration
- Power Controlled System (Optional)
- Backup Large Appliances (Optional)
- Auxiliary Contact Configuration
- Production Estimate

3 Commission

- Enter Serial Numbers
- PV Array
- Storage Array
- Gateway Software Update
- Provisioning

4 Validation

- Ensemble Firmware Update
- Functional Validation

5 Post Commission

- Battery Configuration
- Tariff
- Installation Map

Installation Map (Optional)

Site Map

Site Map
site_map.PDF

Preview

Share document link

Give us a link from Google Drive, Dropbox, etc

Encharge Map

Encharge Map
encharge_map.PDF

Preview

Share document link

Give us a link from Google Drive, Dropbox, etc

Single Line Diagram (SLD)

No file selected

Add Document

Share document link

Must be PNG, JPG, GIF, OR PDF files under 2MB in size.

Give us a link from Google Drive, Dropbox, etc

Main Service Panel (MSP)

No file selected

Add Document

Share document link

Must be PNG, JPG, GIF, OR PDF files under 2MB in size.

Give us a link from Google Drive, Dropbox, etc

Additional Documents

No file selected

Add Document

Share document link

Must be PNG, JPG, GIF, OR PDF files under 2MB in size.

Give us a link from Google Drive, Dropbox, etc

Document Upload Checklist

- Utility Bill
- Equipment Elevation
- Plan Set

Summary Report

In the “Summary Report” section, installers can view and download the summary report anytime.

- 1** Details ^
 - Name & Address
 - System Setup
 - Permit and Contract Dates
 - System Access
 - Site Notes, Pictures & Docs
- 2** Configuration ^
 - Device Inventory
 - System Configuration
 - Power Controlled System (Optional)
 - Backup Large Appliances (Optional)
 - Auxiliary Contact Configuration
 - Production Estimate
- 3** Commission ^
 - Enter Serial Numbers
 - PV Array
 - Storage Array
 - Gateway Software Update
 - Provisioning
- 4** Validation ^
 - Ensemble Firmware Update
 - Functional Validation
- 5** Post Commission ^
 - Battery Configuration
 - Tariff
 - Installation Map
 - Summary Report

Summary Report
Download

Enlighten System Summary Report

25 Jan 2021, 03:14 PM

System

Name	Installer Reference	Owner:
IDC-ENS2-NA3	SIT TESTING	sitreferralltestuser01@dispostable.com

Street 1	Street 2
Yorkshire Road	NA
City	State
Petaluma	CA
Zip/Postal Code	Country
94954	United States

Envoy

Serial Number	Software version	Type
202038014213	D7.0.0.210121 (abf728)	Envoy-IQ

Production Meter	Consumption Meter	Rate structure
Lifetime: 189.59TWh Enabled	Lifetime: 2.04MWh Enabled	Time of Use

Connection to Enlighten	Last report to Enlighten
Ethernet	25 Jan 2021, 03:11 PM

11 Microinverters, 1 Enpower
 Grid Profile: CA Rule21 201902 VV VW FW (1.2.8)

Homeowner Walk-through

This “Homeowner Walk-through” section is a reminder regarding the checklist of action items that the installers must complete before handing over the system to the homeowner.

- 1** Details ^
 - Name & Address
 - System Setup
 - Permit and Contract Dates
 - System Access
- 2** Configuration ^
 - Device Inventory
 - System Configuration
 - Power Controlled System (Optional)
 - Backup Large Appliances (Optional)
 - Auxiliary Contact Configuration
 - Production Estimate
- 3** Commission ^

Homeowner Walk-through

Please confirm if you discussed following topics with the site owner

- 1) Physical location of Enpower, Encharge and Envoy
- 2) Loads/Appliances in back up
- 3) Enlighten App overview
 - a) [Live Status and Energy view](#)
 - b) [Different Battery Storage modes of operation](#)
 - c) [Storm Guard feature](#)
- 4) [Enphase community](#), Installer and Enphase Customer Support (email, chat, phone)

Revision history

Revision	Date	Description
USG-00015-1.0	July 2023	Initial release

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