Tesla Powerwall 3: Commissioning (INS-SOP-0233-08)



Overview

Link to CURRENT version of this SOP

This SOP describes the procedure for commissioning the Tesla Powerwall 3. Configurations include Gateway 2, Gateway 3, Backup Switch, Remote Energy Meter and Expansion unit. .

NOTE: The customer will need to download and install the Tesla Home App in order to self-register the Tesla equipment during the commissioning process.

IMPORTANT: The Tesla Powerwall 3 warranty term depends on internet connection. To secure the full 10-year warranty, equipment must be reliably connected to allow remote firmware upgrades from Tesla. If an internet connection is not established or is interrupted for an extended period, the warranty may be limited to 4 years.

This product requires certification from the equipment manufacturer.





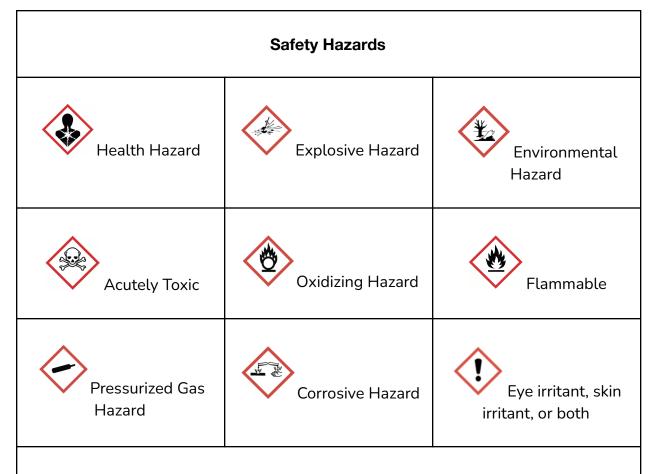




Legend

General		
	Ensure all Arc Flash PPE is worn during the shown portion of the Installation SOP.	
•	This symbol indicates a safety-specific call out	
	Photo or screenshot required for the Foreperson Installation Checklist (FIC).	

	Pro Tip to help the installation procedure.
: Jin	Indicates to Tap on a screen or device within an application or website.



See the Safety Data Sheet in the Related Documents list for additional information relating to OSHA Hazard Pictograms.

Tools & Materials Required

Estimated Time:	30-45 minutes
Tools	Tesla One App (latest version from Tesla.com/Teslaone)
Resources:	Tesla Certified Installer Hotline: 1 (650) 963 - 5655

Step 1: Prepare System for Commissioning

NOTE: The QR code required for logging in to the Powerwall 3 is located on the interior of the battery, do not install the glass cover before commissioning.

All commissioning is to be done through the leader Powerwall 3. Gateways and follower PW3s will be unable to communicate with the Tesla Pros App.

1. Before beginning the commissioning process, turn on all energy storage devices, breakers, disconnects, etc.





Tesla Powerwall 3 ON/OFF Toggle

Tesla Status LED (Blue = Ready)

2. All MCIs shall be installed before commissioning the Tesla Powerwall 3 and Gateway.

NOTE: When the Powerwall 3 is turned on using the ON/OFF toggle, there will be a five minute wake up period. During this wake up period, the small LED above the Tesla LED logo will be green. Once this LED turns blue, commissioning can begin.

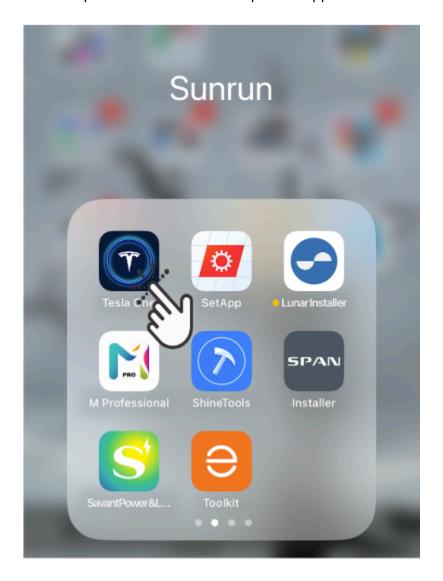
Step 2: Access/Update Tesla One

The Tesla Powerwall 3 shall be commissioned using the Tesla One Setup App. The commissioning app can be downloaded from <u>Tesla.com/Teslapros</u> (or in the App Store).



NOTE: Do not download the Tesla Bolt App that is available in the App Store and Google Play. The Tesla Bolt App does not have commissioning functionality for certified installers.

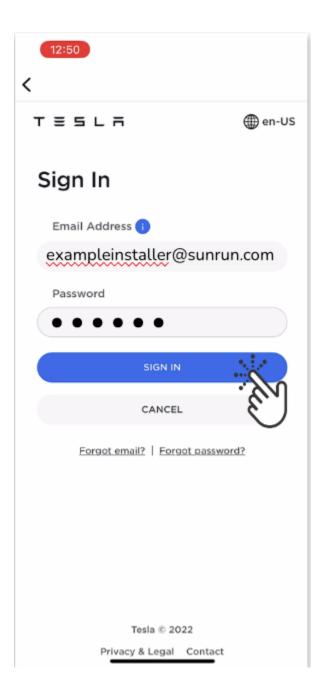
1. Tap the **Tesla One** icon to open the app.



2. Tap External User

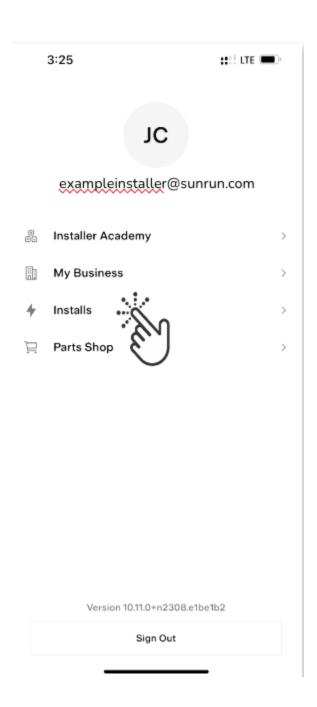


3. Enter the Tesla Partner Portal credentials associated with the installer's company email. Tap **Sign In.**

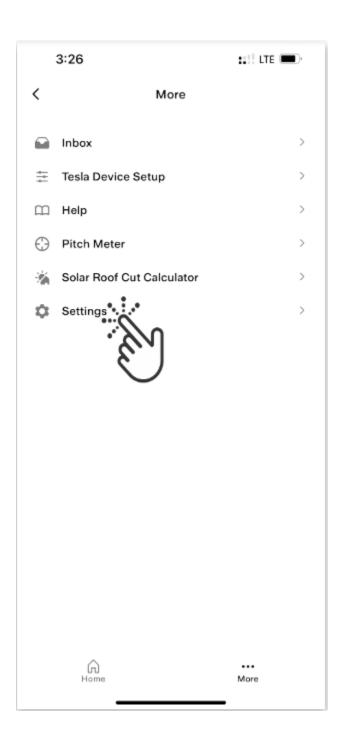


IMPORTANT: The credentials used to log into the Tesla One App are the same credentials used to log into the Tesla Partner Portal. If a username or password cannot be found, use the Forgot Email or Forgot Password options.

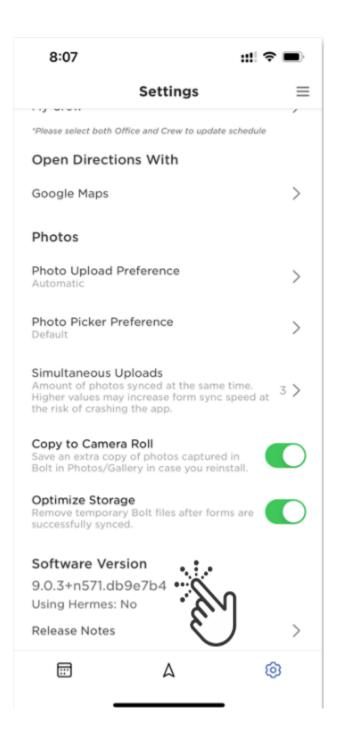
4. Tap Installs



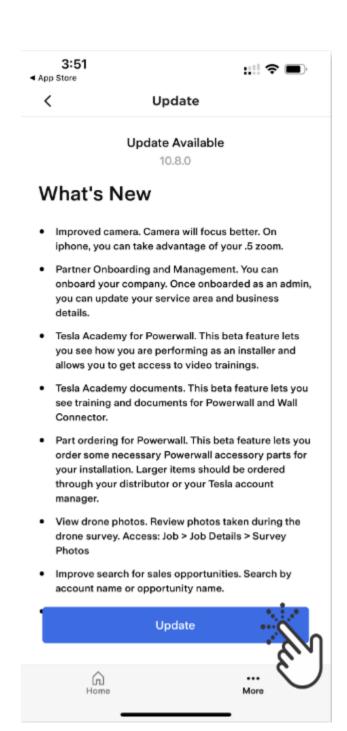
5. Tap Settings



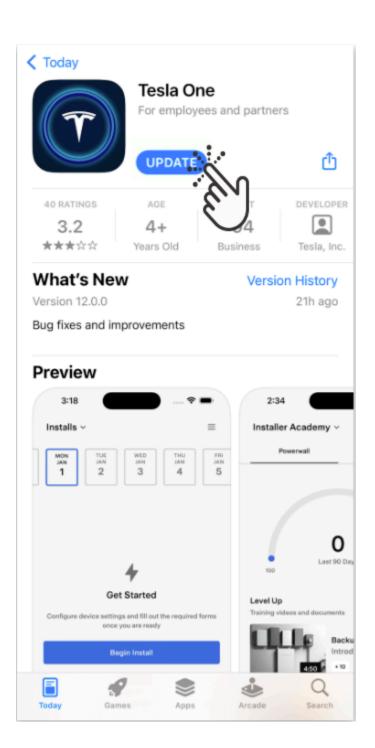
6. Tap **Software Version**



7. Tap Update

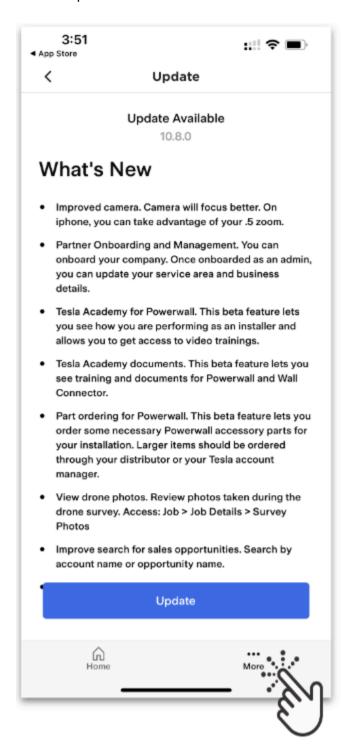


8. If an update is available, tap **UPDATE** to initiate (or **OPEN** if up to date)

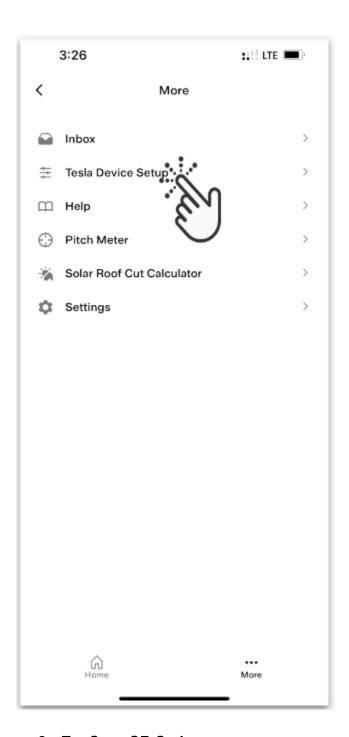


Step 3: Log into the Site Controller

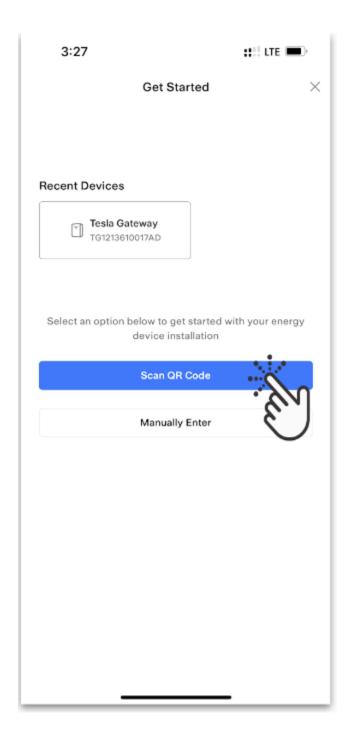
1. Tap More



2. Tap Tesla Device Setup

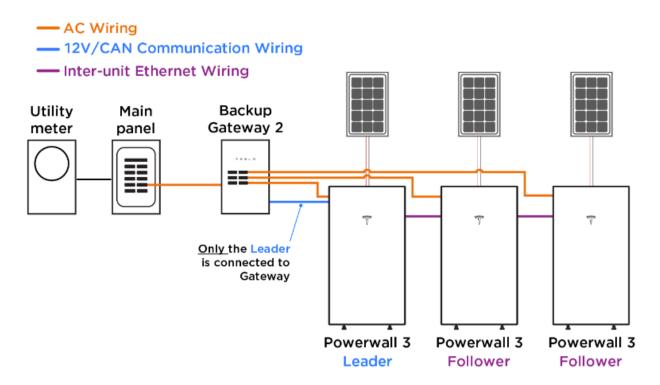


3. Tap Scan QR Code



NOTE: The camera on the commissioning device, mobile phone, or tablet must be accessed to use the QR scan function. Alternatively, the Site Controller commissioning information can be entered manually.

- 1. The Powerwall 3 connected to the Backup Gateway / Backup Switch is designated as the Leader Powerwall 3.
- 2. Before connecting to any Powerwall 3, note which unit is the Leader; any other unit(s) are Followers.

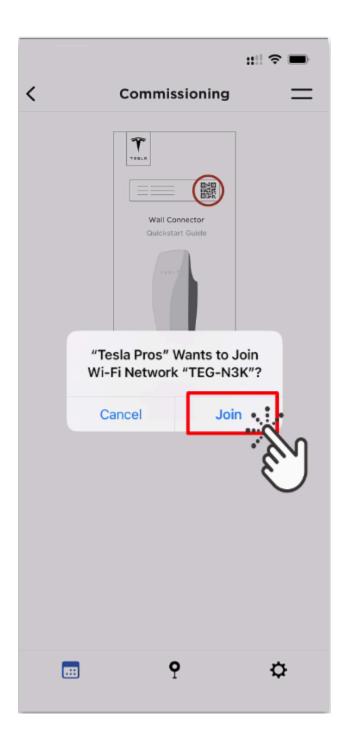


IMPORTANT: Only the leader Powerwall 3 will be commissioned and registered, but all units must first be connected to the customer's WiFi and have the software updated to 23.44.1 or higher.

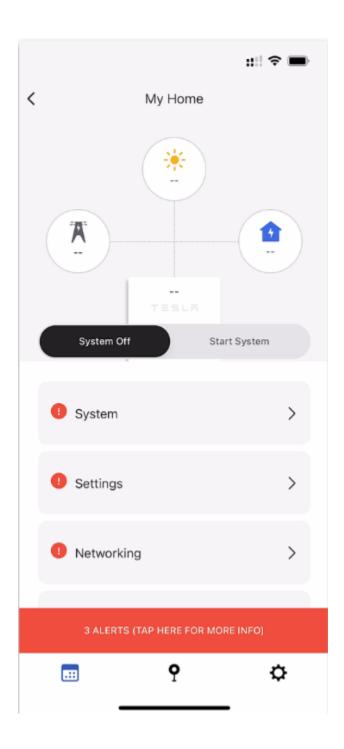
- 3. Complete Networking and Update Steps on both Leader and Follower units before returning to the Scan for Devices Step on the Leader Powerwall 3.
- 4. Using the commissioning device's camera, scan the QR Code on the PW3, located under the Tesla LED logo.



5. After the PW3 QR Code is successfully scanned, tap **Join** to pair with the site controller WiFi.



6. The commissioning landing page will automatically populate once the PW3/site controller is identified and connected.

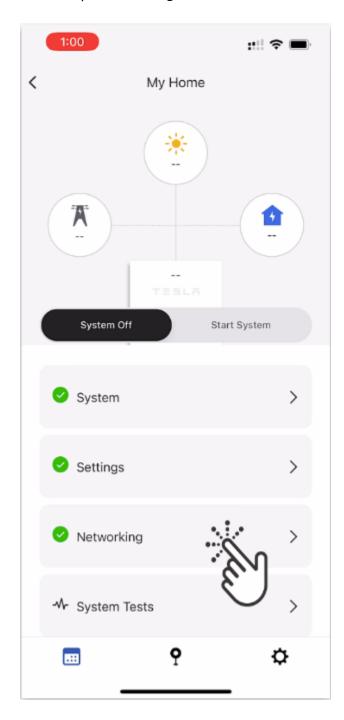


Step 4: Networking

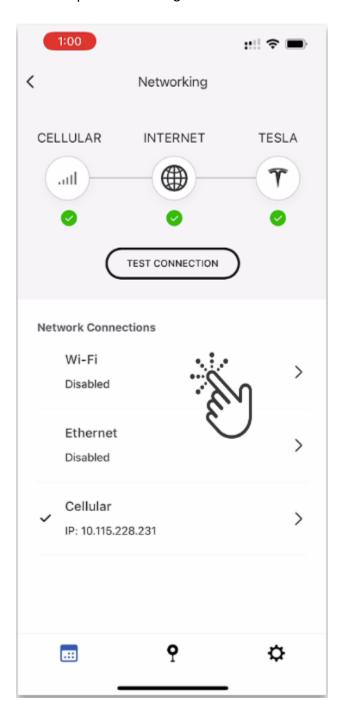
NOTE: Cellular communication is set up automatically so long as the cell signal is available.

IMPORTANT: A WiFi connection is required to uphold Tesla warranties and receive important equipment updates.

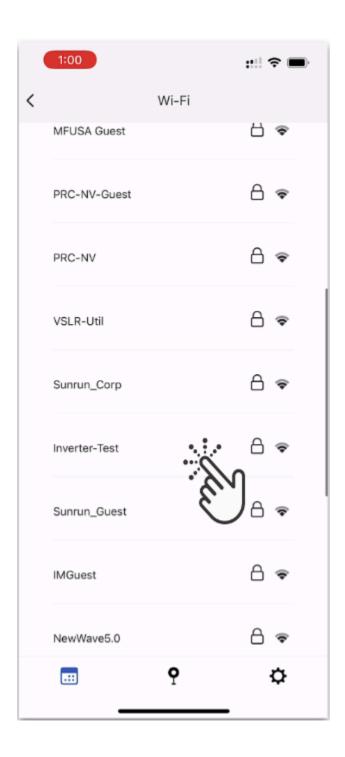
1. Tap Networking.



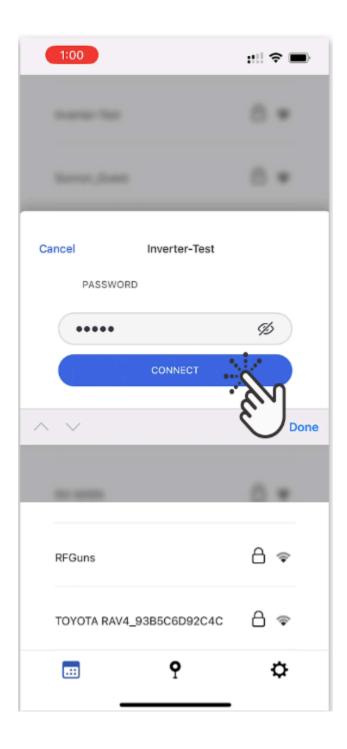
2. Tap WiFi to configure wireless communications



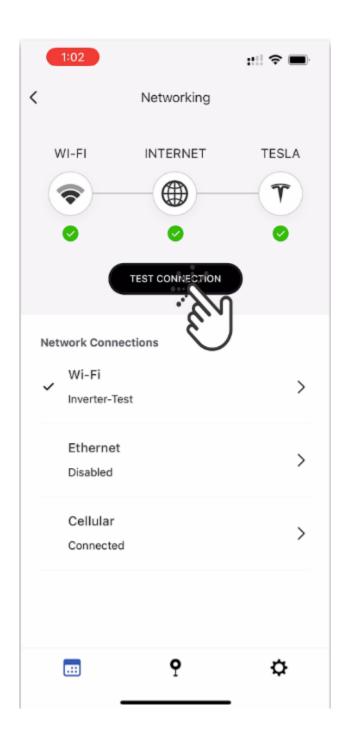
3. Tap the Customer's Wifi



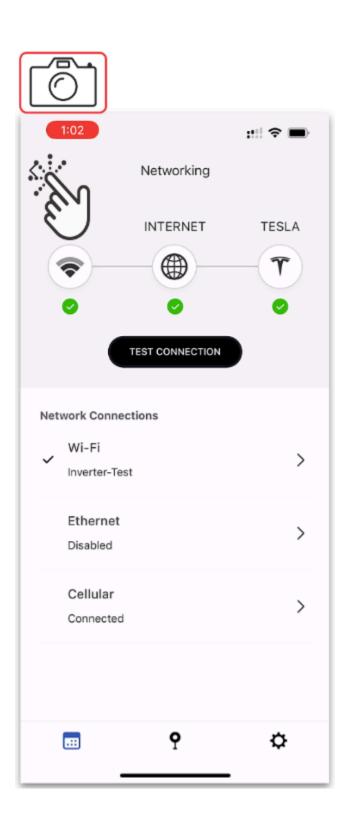
4. Enter the network password and tap CONNECT



5. If the connection is successful, tap **TEST CONNECTION** on the Networking home page.

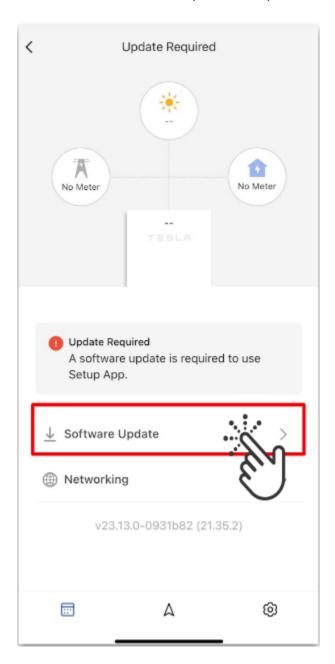


6. Tap the **Back Arrow** to return to commissioning

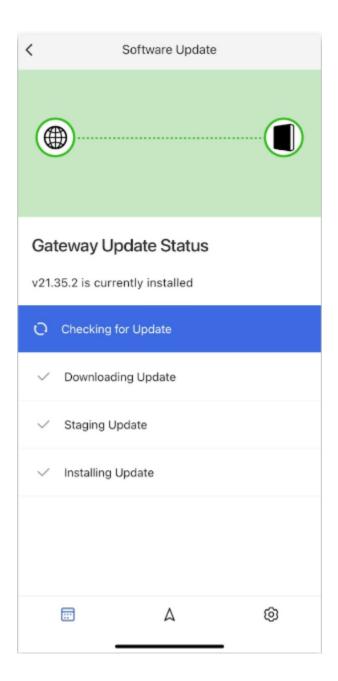


Step 5: Update Site Controller if Required

1. If a Site Controller update is required or available, tap Software Update.



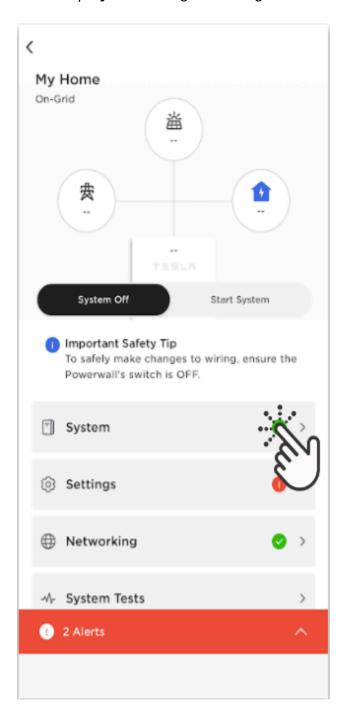
 The Pros App will begin downloading the latest version of Site Controller/Gateway firmware.



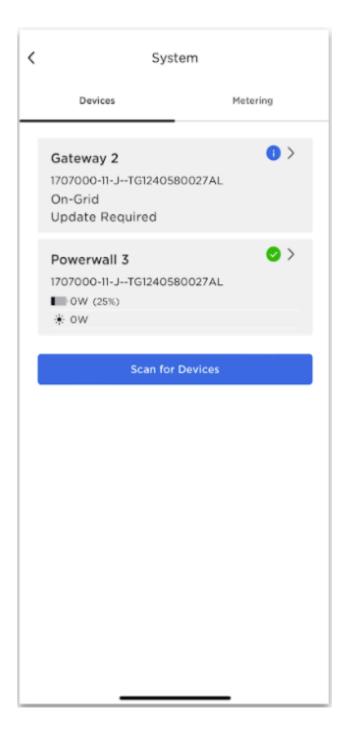
IMPORTANT: If installing multiple Powerwall 3 units, all units must be connected to WiFi and updated to 23.44.1 or higher before beginning step 7 on the Leader Powerwall 3.

Step 6: Scan for Devices (including Followers and Expansion units)

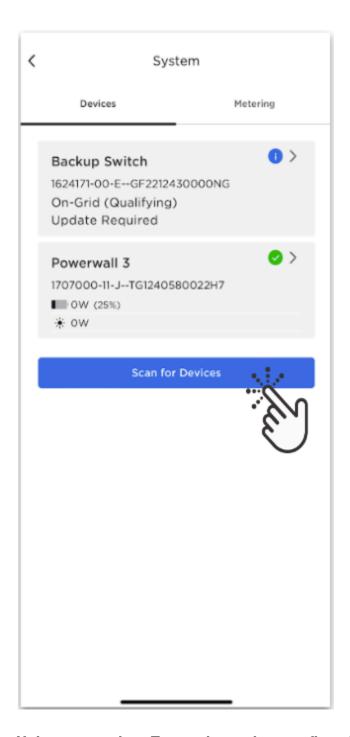
1. Tap System to begin scanning for devices



2. Verify the devices discovered match the equipment on site.

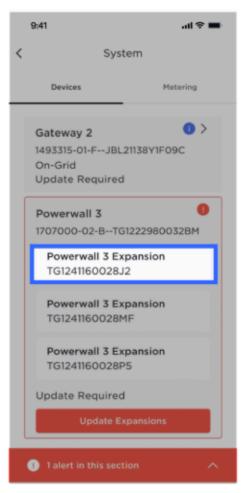


3. For multiple PW3 units, tap **Scan for Devices** to discover any followers. If a follower unit does not appear upon scanning, double check the ethernet cable between units is properly installed. It may be necessary to change ports.



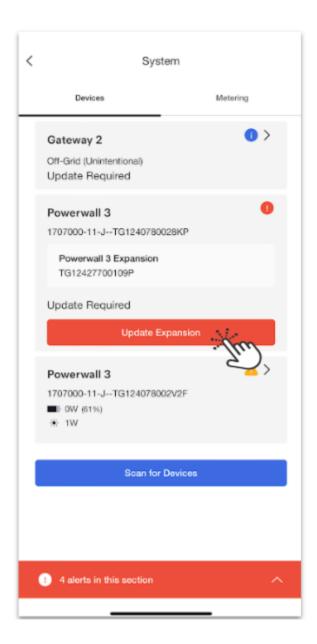
If the system has Expansion units, confirm they appear in the Devices tab.

a. Confirm the Expansion serial numbers in Tesla One match those on the installed units (found on the left side of unit)

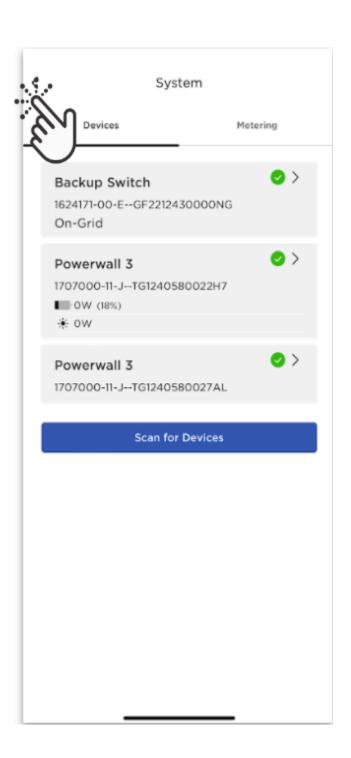




b. Tap **Update Expansions**



- c. Allow each Expansion unit to update, this could take several minutes for each unit.
- 4. Tap Back



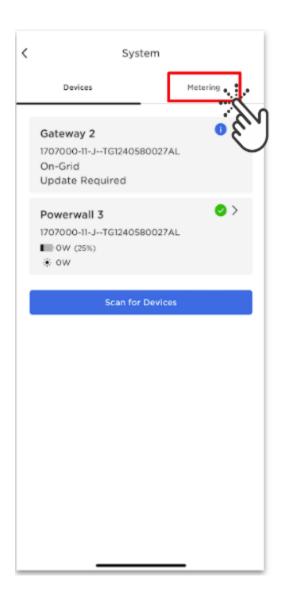
Step 7: Metering

IMPORTANT: Powerwall 3 systems are not compatible with Neurio meters. If remote metering is required, the Tesla Remote Energy Meter shall be used.

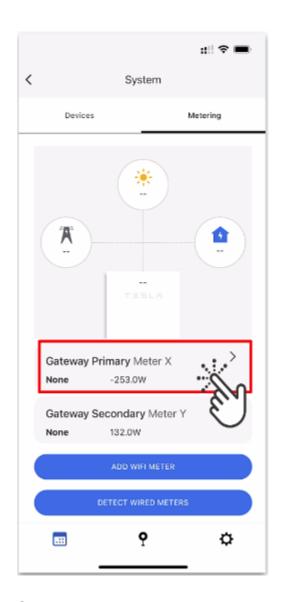
NOTE: Site meters show the overall power flow of a site from the Grid's perspective. The Grid is treated as the source of power and the home is a consumer of that power. Site meter(s) must be installed upstream of all solar production, Powerwalls, and homeloads. There are three options for performing Site metering; multiple Site meters can be installed together where needed, but their sum should capture all of the power flows from load, solar, and Powerwalls.

Gateway 2 internal metering

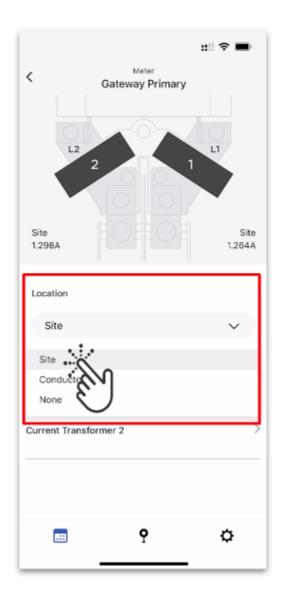
- If any loads cannot be captured by Internal Site Meter X, Meter Y may be used to capture loads up to 100a or for AC-coupled solar using the 100a rated Tesla CTs.
- 1. From the System page, Tap Metering



2. Tap Meter X



3. Verify Meter X is set to Site

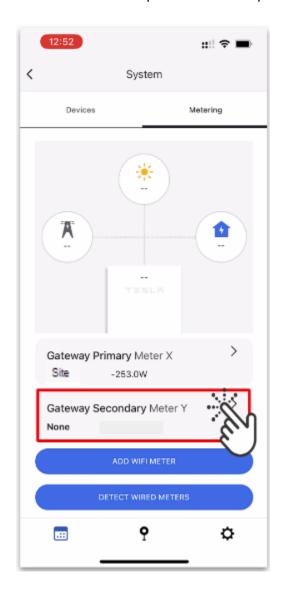


Gateway 2 Meter Y (Optional):

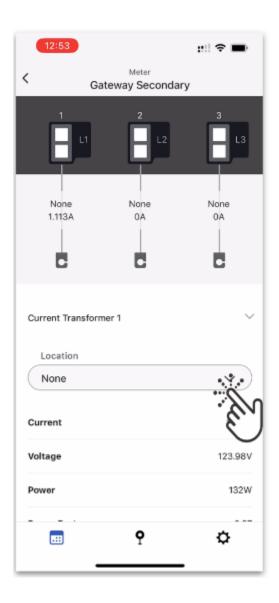
- Only program Meter Y if there is additional solar on-site, or if there are loads upstream of the Gateway 2.
- If capturing upstream loads less than 100 A, two Tesla CTs will be used (L1 and L2), programmed to Site.

IMPORTANT: Powerwall 3 performs its own solar metering. No additional CTs are required. One Tesla CT must capture the L1 of any additional solar, programmed to Solar 1CTx2.

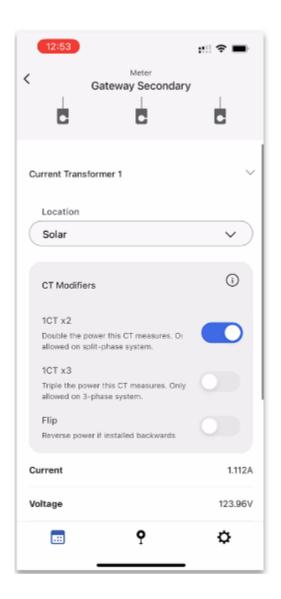
1. Tap Meter Y if add-on solar or uncaptured loads are present.



2. Tap Location

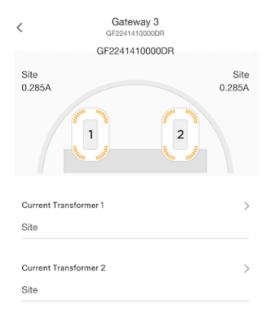


3. Select Solar 1CT x2



Gateway 3 and Backup Switch Site metering

 Both the Gateway 3 and Backup Switch are identified as Meter Z. Meter Z is fixed inside the Gateway 3 and Backup Switch, rated for 200a, and defaulted to Site in the metering screen. For whole home backup, these settings shall remain set to Site.



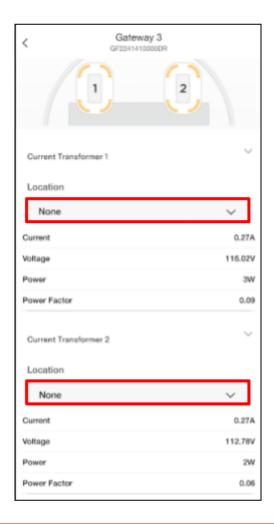
• For partial home backup systems with Powerwall 3, home loads may be left upstream of the Z meter. This will require the Z meter CTs to be set to None if a Tesla Remote Energy meter is used to capture the site.

IMPORTANT: Multiple Site meters can be installed together where needed, but their sum should capture all of the power flows from load, solar, and Powerwall. Avoid capturing loads twice which would double the home's usage.

1. For partial home backup where the Tesla Remote Energy Meter will be the Site meter, Tap System, Tap Metering.



2. Tap CT 1 and 2. Set to None.

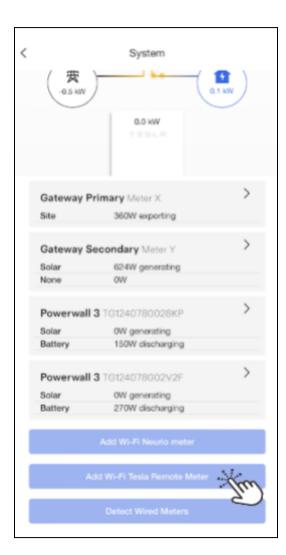


IMPORTANT: Only perform this step if a Tesla Remote Energy Meter will be capturing the whole home.

Tesla Remote Energy Meter:

 The Tesla Remote Energy Meter can be installed in partial home backup configurations to capture the non-backed uploads upstream of the Z meter, or to capture the output of additional non PW3 solar. **NOTE**: Y splitters are unavailable for Tesla Remote Meters at this time. If Site Metering requires multiple CTs, a second Tesla Remote meter may be used. Only one meter can be paired wirelessly, the second meter must be wired via RS-485.

1. From the main menu screen tap System, tap Metering, tap Add Wi-Fi Tesla Remote Meter.



NOTE: If the Remote Meter was wired to the RS-485 harness and connected to the PW3 TACO, tap Detect Wired Meters. Allow for the meter to pair and follow the CT programming below.

2. Tap Scan QR code. Locate the QR code on the front of the Tesla Remote Meter and scan it.



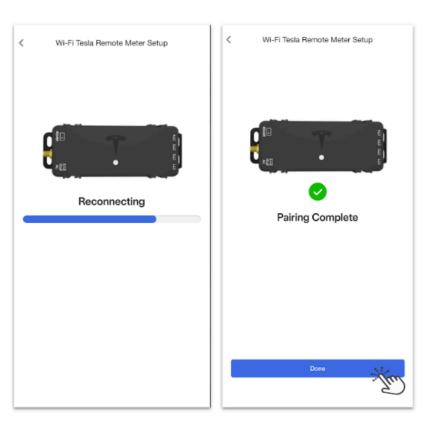
3. Tap Join when prompted to join the Remote Meter Wi-Fi network.



4. Allow the Meter to pair. The Tesla One app will then prompt to rejoin the PW3 Wi-Fi, Tap Join.



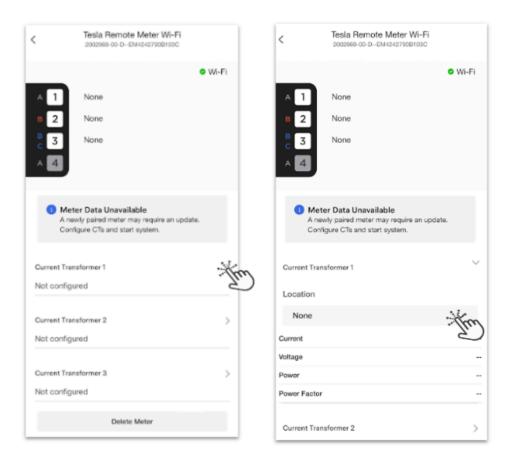
5. Allow the Tesla One App to rejoin successfully and tap Done.



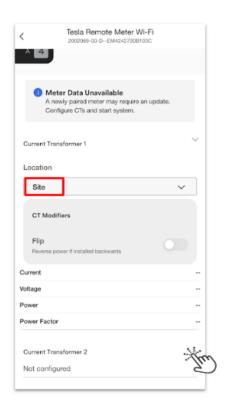
6. Configure the CTs: Program the CTs location according to what they are measuring.

NOTE: CTs can only be programmed when the System is stopped. CTs will not display readings until the meter is updated and the system is running. Port 4 is unavailable at this time.

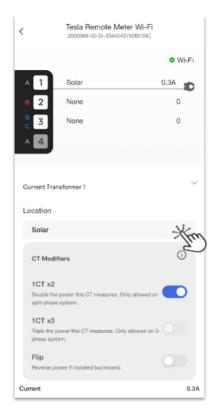
a. For Site: tap CT 1 which is dedicated to the L1 phase, tap Location.



b. Tap Site. Repeat these steps for CT 2 which is dedicated to L2.



c. Non-Powerwall 3 solar: Tap the CT port that is measuring the single phase of Solar. Tap Location, select Solar. Ensure 1CTx2 is switched on, as only one phase is being monitored.



IMPORTANT: The use of the "flip" feature in the app is only for diagnosing metering issues, and shall not be used to permanently rectify CT installation errors. All changes must be made to the actual CT placement.



ProTip: Tesla Remote Energy Meter

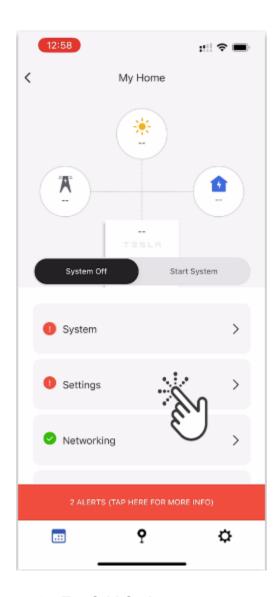
• Update the Tesla One app and Site Controller before pairing the Tesla Remote Meter.

- When pairing via Wi-Fi, extend the Remote Meter antenna whenever possible.
- Configure CTs before starting the system.
- When starting the system, allow all devices to update before troubleshooting.
- Retry updates by selecting Stop System, then Start System again.
- Stock and extra Tesla Remote Meter RS-485 harness, and use when practical to the installation.
- For repeated update failures, temporarily connect the Tesla Remote Meter to PW3 with the RS-485 harness to complete meter updates.

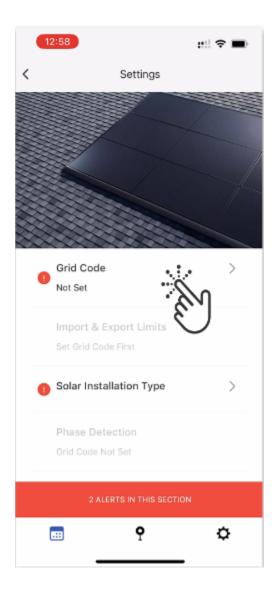
Step 8: Set Grid Code

NOTE: The Networking tab will have a green check mark as the cellular connection is automatic and WiFi has been programmed in earlier steps.

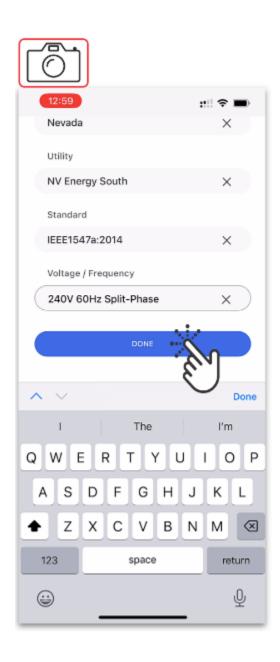
1. On the commissioning home page, tap **Settings**



2. Tap Grid Code

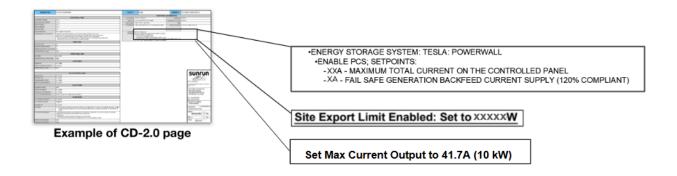


3. Enter the applicable code. Tap ${\bf DONE}$



Step 9: Set PCS, Site Export limit, Max Power output limit (if applicable)

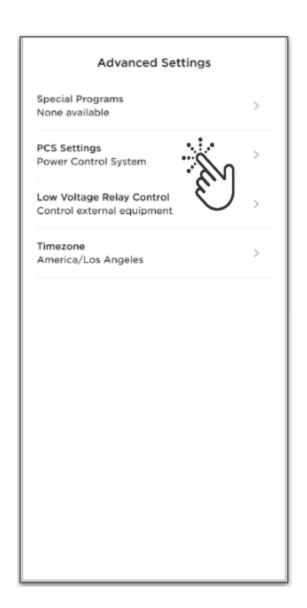
IMPORTANT: Depending on the system configuration, it may be required to set limit controls on the Powerwall system. This includes PCS busbar protection, Site Export limit, and/or Max Power Output limit (Permanent Derate). The CD2.0 document will include **Notes to Installer** and list the following callouts:



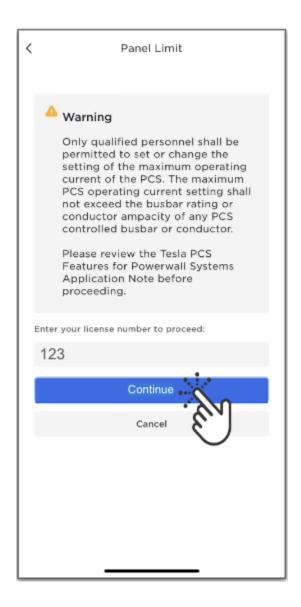
- Limit control settings will be listed on the CD-2.0 page of the plan set **Notes to Installer** and may contain one or more of the following:
 - MAXIMUM TOTAL CURRENT ON THE CONTROLLED PANEL -XXX Amps
 - Site Export Limit Enabled: Set to xxxxxW
 - Set Max Current Output to 41.7A (10kW)
- If there are no notes to the installer this step may be skipped. Follow the steps below if one or more of the notes call out for system limits.

Set Maximum total Current on Controlled Panel (Busbar protection):

1. Tap Settings > Advanced Settings > PCS Settings



2. Enter 123, Tap Continue

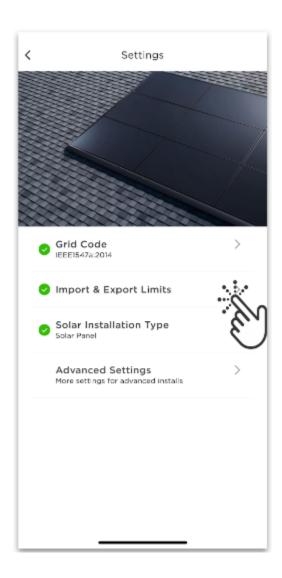


3. Enter value, Tap DONE to continue

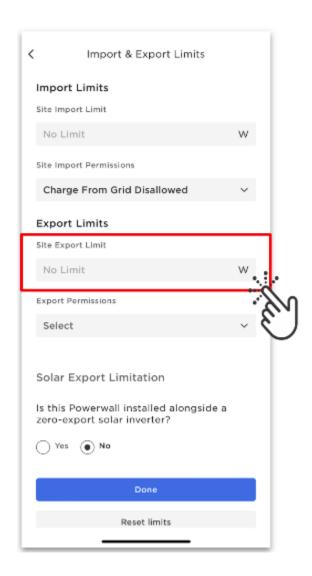


Set Export Limit:

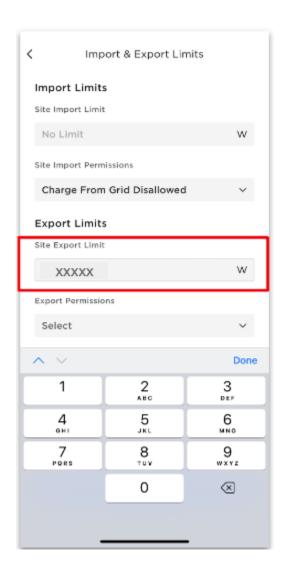
- Values for Export Limit will be listed on the CD-2.0 page of the plan set (Site Export Limit Enabled: Set to XXXX W)
- 1. Tap Settings > Tap Import & Export Limits



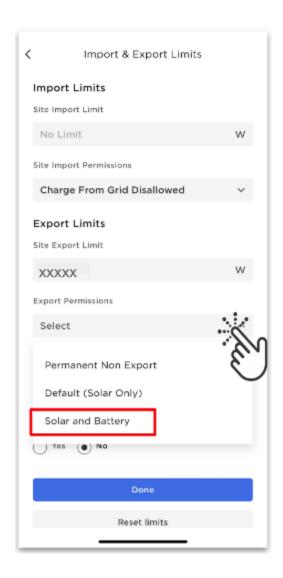
2. Select Site Export Limit



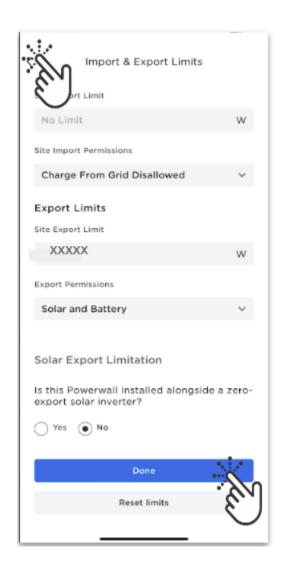
3. Enter the Wattage found on the CD 2.0



4. Tap Export Permissions, Select Solar and Battery

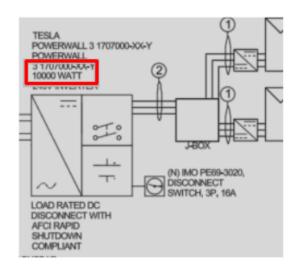


5. Tap Done, Tap Back



Set Maximum Current Output:

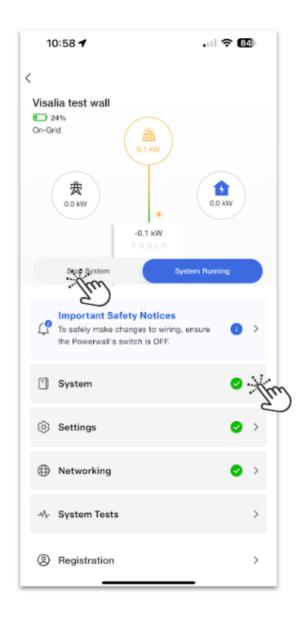
1. In addition to the CD2.0 the plan set will also call out for the Powerwall rating to be changed:



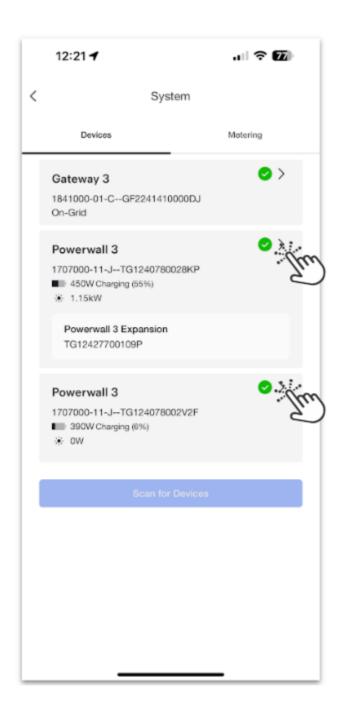
- SYSTEM SIZE: 4.1KW DC, <u>10 KW AC</u>
- (1) TESLA: POWERWALL 3
 1707000-XX-Y, 13.5KWH, <u>10KW</u>

 INVERTER OUTPUT, LITHIUM-ION
 BATTERY (WEIGHT: 272.5 LB EACH)

2. Ensure the system is **Stopped.** Tap **System.**

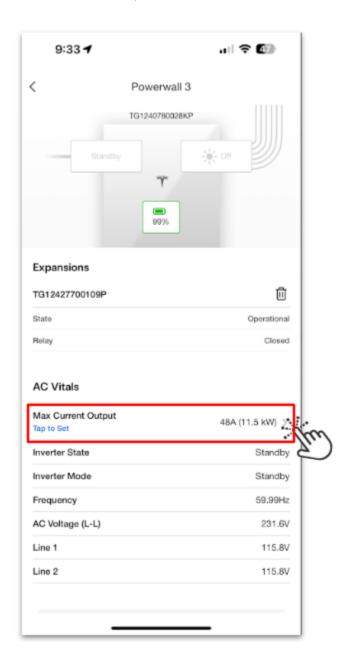


3. On the Device screen, tap Powerwall 3.

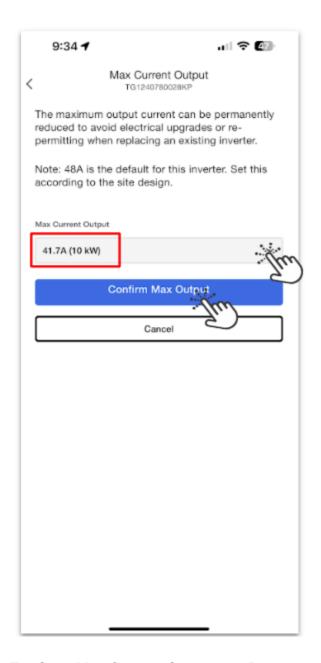


IMPORTANT: This setting shall be repeated for all base Powerwall 3 units.

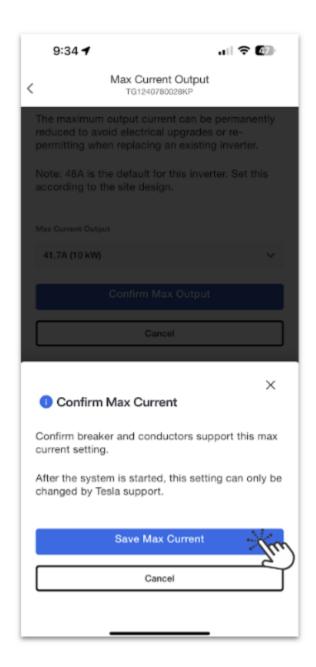
4. Under AC Vitals, tap Max Current Output



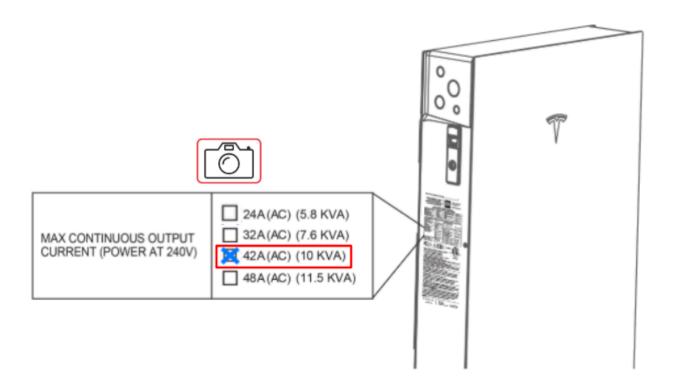
5. Select 41.7A (10kW) from the drop down menu, tap Confirm Max Output



6. Tap Save Max Current Output, tap Done.



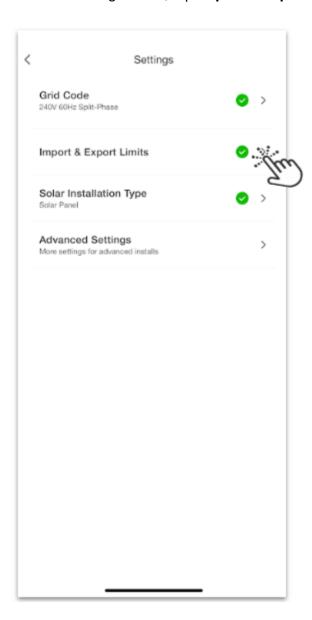
- 7. Repeat for all Powerwalls on site.
- 8. Document the configured maximum current output on the Powerwall 3 product label using a paint pen.



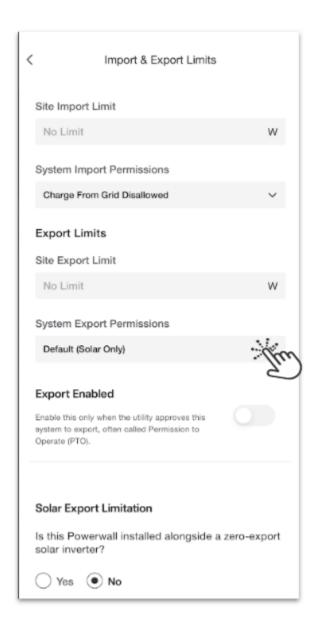
Step 10: Set Export Permission

IMPORTANT: This step is required in all installations outside of Hawaii. Installations must have the Export permissions set to **Solar & Battery** unless called out on CD2.0. Non-export second systems shall be programmed to **AC coupled solar only** (see details below).

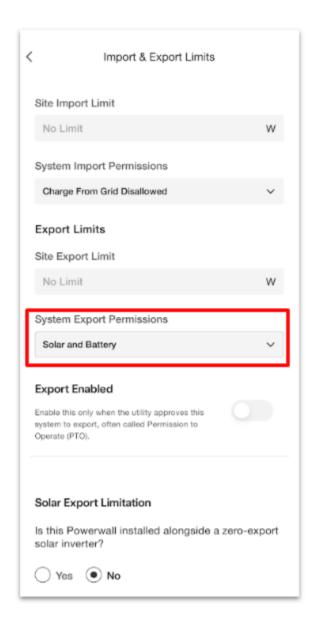
1. From the Settings menu, tap Import & Export Limits



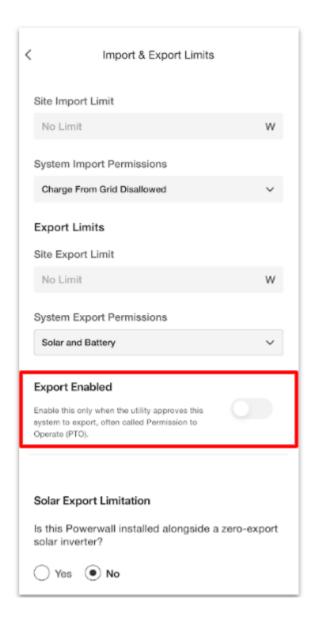
2. Tap System Export Permissions



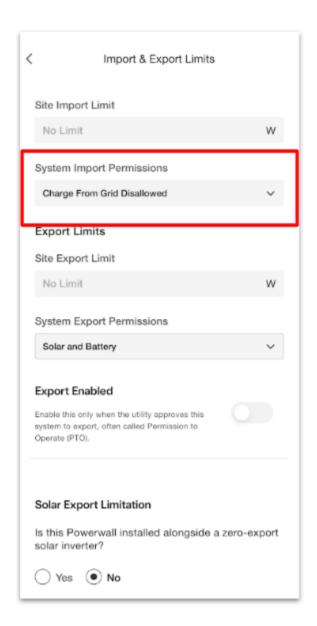
3. Select **System Export Permissions.** Change the default (Solar Only) to **Solar and Battery.**



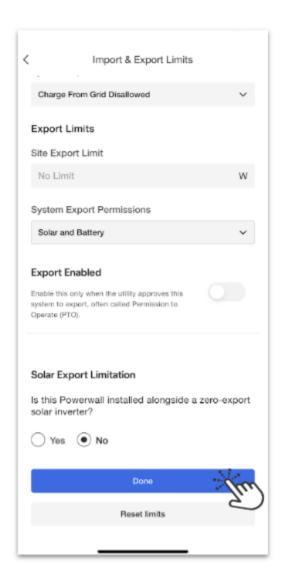
4. Ensure the Export Enabled toggle is **OFF**, as the utility has not granted permission to operate. This setting will be changed by the customer when PTO is granted via the Tesla customer app.



5. Ensure System Import Permissions is set to **Charge From Grid Disallowed** unless installing in Texas (see <u>Step 11</u> if installing in Texas for instructions)



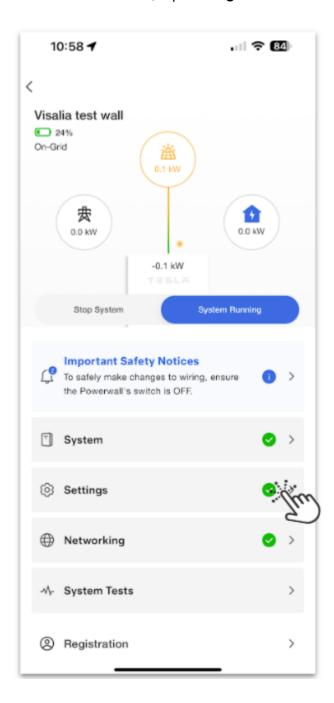
6. Tap **Done** to save the settings.



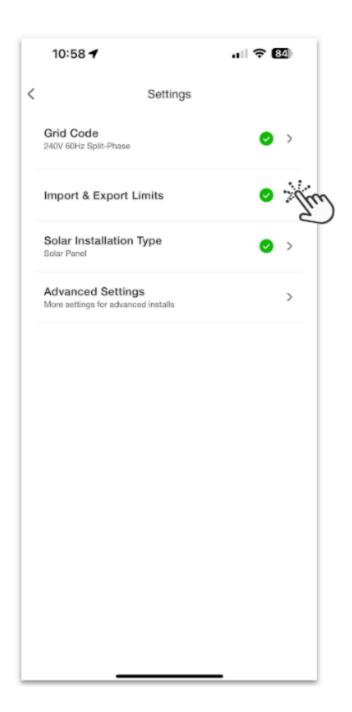
Set Non Export Secondary PV/Storage system: (if applicable)

- CD2.0 notes to the installer will call out if the new Tesla PV and battery are **NOT** allowed to export to the Grid, but the existing AC coupled solar is allowed to export.
- This operation mode allows for the customer to retain their existing PV system's NEM agreement with the utility.
- **Tesla Remote Energy Meter** must be installed and programmed to monitor the existing system's PV breaker. The meter must be programmed prior to setting this mode.

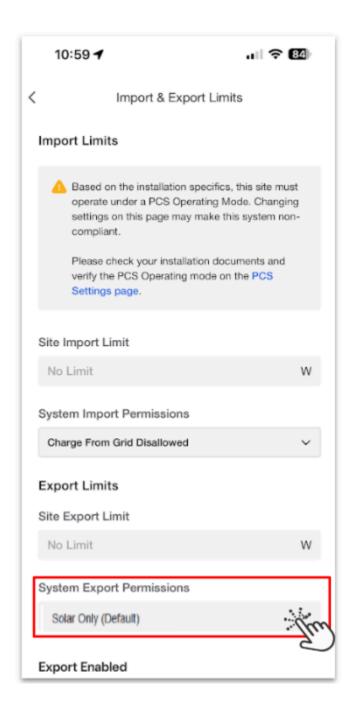
1. From the main screen, tap **Settings**



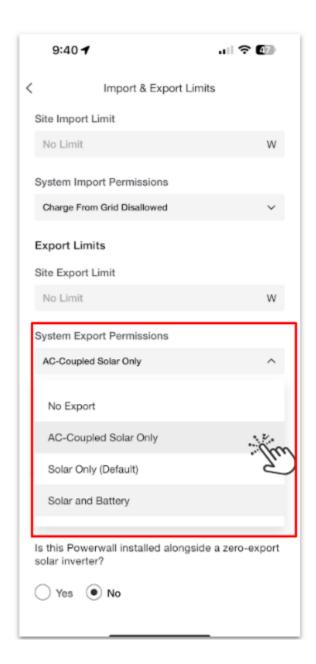
2. Tap Import & Export Limits



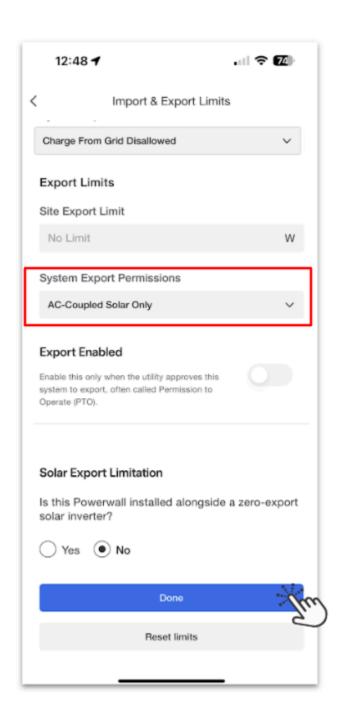
3. Tap System Export Permissions



4. Select AC Coupled Solar Only



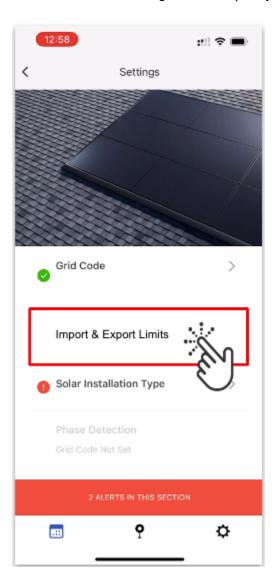
5. Ensure the permission is set to **AC Coupled Solar Only**, tap **Done** to save the setting.



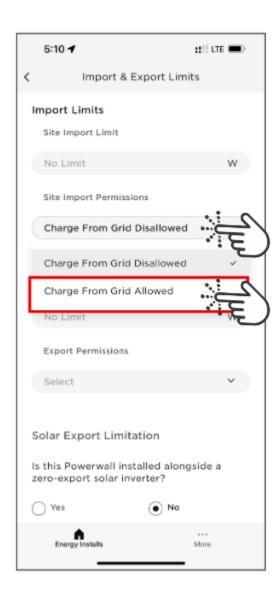
Step 11: Optional Grid Charge (Texas Only)

IMPORTANT: This is only allowed in specific Texas markets (Oncor, TNMP, and Centerpoint). Only allow grid charging if it is indicated on the plan set.

1. From the Settings menu, tap Import & Export Limits.



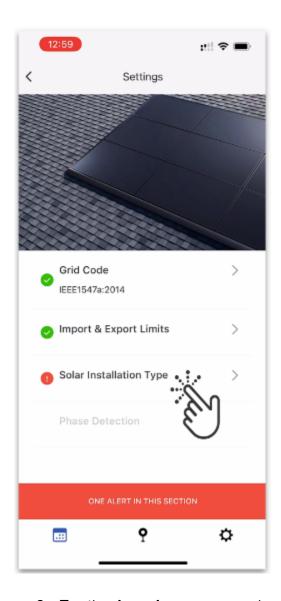
2. Tap Charge From Grid Disallowed and then tap Charge From Grid Allowed.



Step 12: Solar Installation Type

NOTE: Once the Grid Code is set, the Import & Export Limits are automatically populated based on code standard selection. Unless directed by Sunrun, these Import & Export Limits shall not be set or modified.

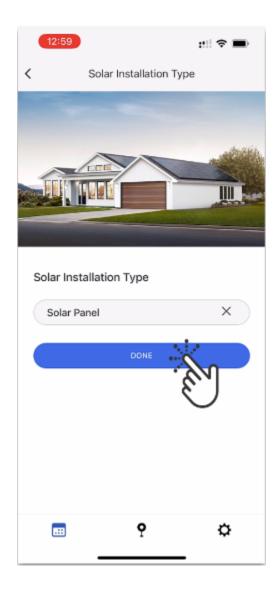
1. Tap Solar Installation Type



2. Tap the drop-down menu and select Solar Panel



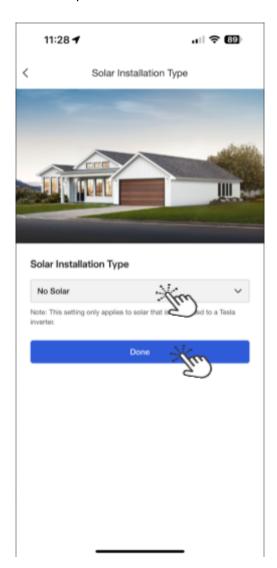
 $\textbf{3.} \ \ \mathsf{Tap} \ \textbf{DONE} \ \mathsf{to} \ \mathsf{return} \ \mathsf{to} \ \mathsf{the} \ \mathsf{Settings} \ \mathsf{landing} \ \mathsf{page}$



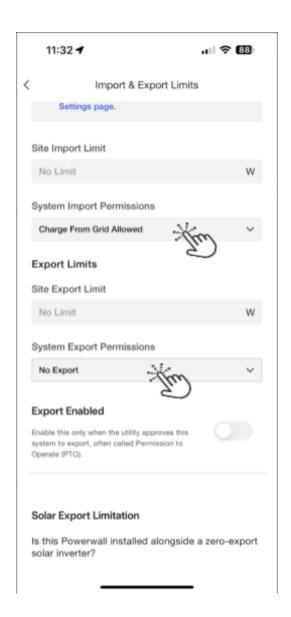
Standalone Battery Settings (if applicable)

IMPORTANT: Depending on the system configuration, it may be required to set the system parameters for standalone (battery only, no solar). The CD2.0 document will include **Notes to Installer** indicating this configuration.

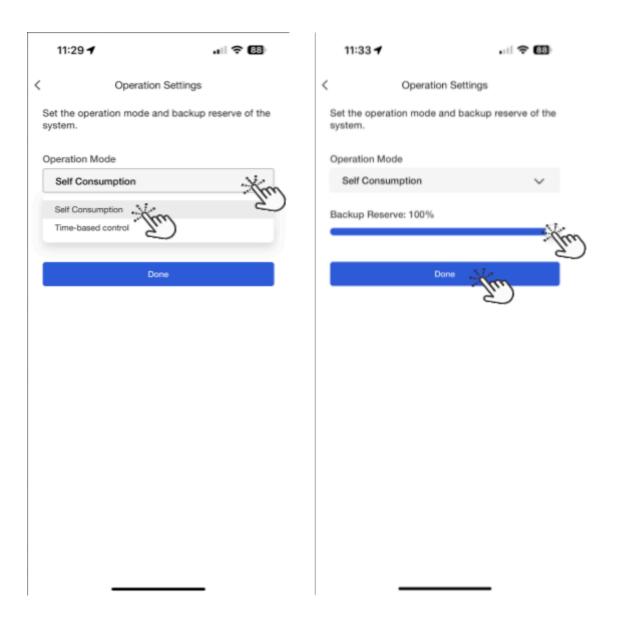
- 1. Navigate to the **Operations Settings** screen (**Settings > Solar Installation Type**)
- 2. Set the system to **No Solar** and tap **Done**.



- 3. In the **Settings** menu, tap **Import & Export Limits**
- 4. Verify the settings are **Charge from Grid Allowed** and **No Export**.

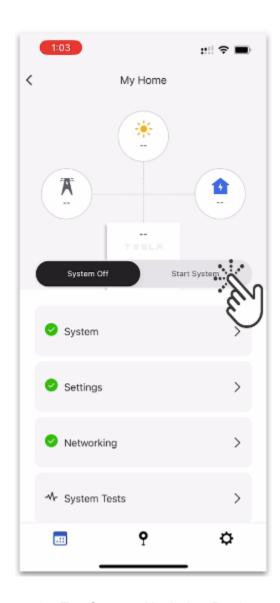


- Navigate to the Operations Settings screen (Settings > Advanced Settings > Operations Settings)
- 6. Ensure the system is set to **Self Consumption** with a **Backup Reserve of 100%**.

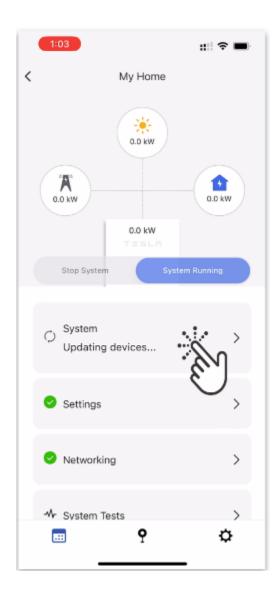


Step 13: Start System

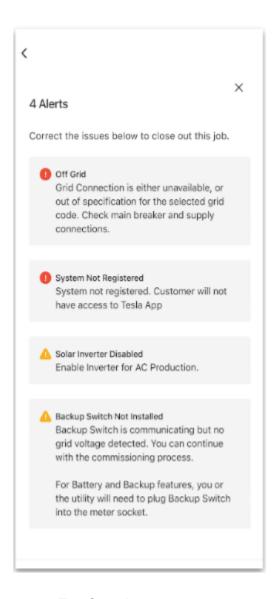
1. Tap **Start System** (any device updates will start automatically)



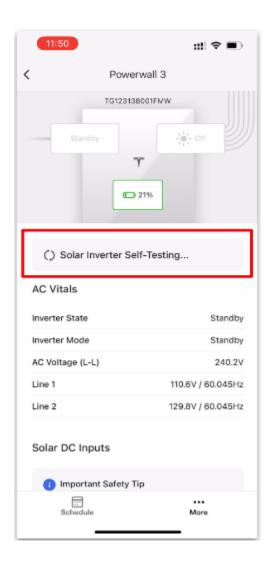
2. Tap System Updating Devices to view update status



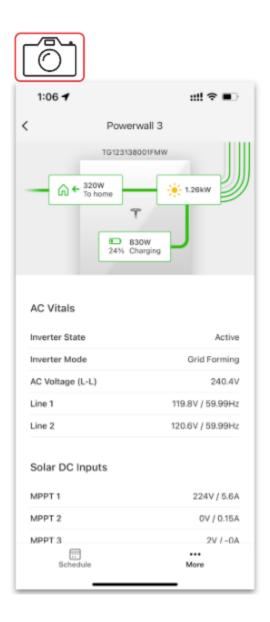
NOTE: If a Backup Switch is present but has not been installed, the alerts for **Off Grid** and **Backup switch not installed** shall be ignored.



3. The Solar Inverter will begin self-testing along with the MCIs.



- 4. When the solar self-test is complete, the AC Vitals will display (Figure 2):
- Inverter State: Active

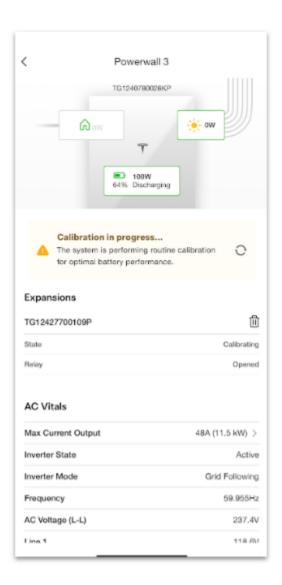


IMPORTANT: For multiple PW3, the status shall be verified for each inverter.

NOTE: Depending on home consumption and solar production, the PW3 powerflow may show the grid importing or exporting, and the battery charging or discharging

If the system includes Expansion units: Calibration will automatically begin, with the system calibrating one expansion unit at a time. Within approximately one minute, Tesla One will display Calibration in Progress.

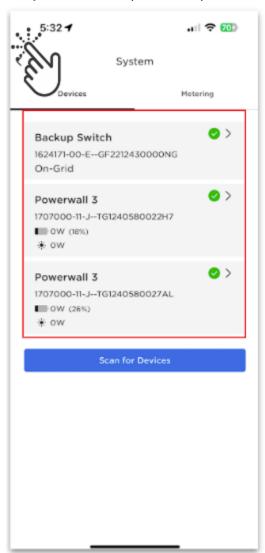
NOTE: Expansion units have an internal relay that is initially opened. To close the relay, the voltage of each Expansion unit must be the same as the other units. The system will charge or discharge until they match during this calibration. No installer action is necessary during calibration and may take a few hours. It is not necessary to remain on site until calibration is completed.



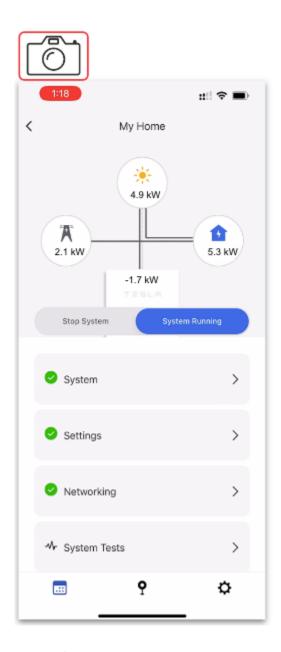
5. Tap the **back arrow** to return to the previous page.

Step 14: System Tests (Gateway or Backup Switch Installed)

1. Verify devices are updated. Tap the **Back Arrow.**



2. Verify the Power Flow represents what is happening on site



• All values must add up to be within 100 W of the home's consumption.

Example:

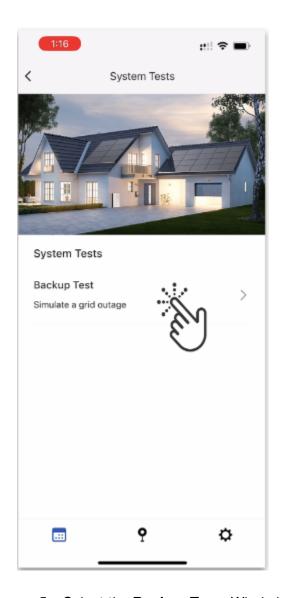
- Solar = 4.9 kW
- Grid = 2.1 kW
- Powerwall (charging) = -1.7 Kw
- Home Consumption= 5.3 Kw
- \bullet 4.9 + 2.1 1.7 = 5.3

NOTE: The home consumption and solar values will never be negative. A negative home or solar value will indicate there is a CT installation error. Grid and Powerwall values may be positive or negative based on import/export or charging/discharging.

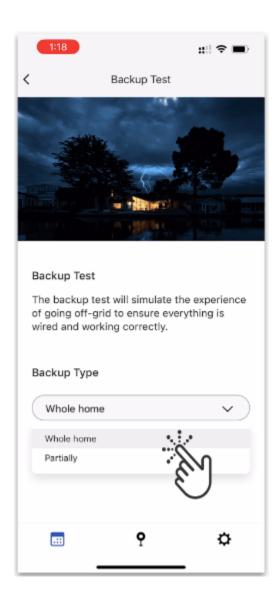
3. Tap System Tests



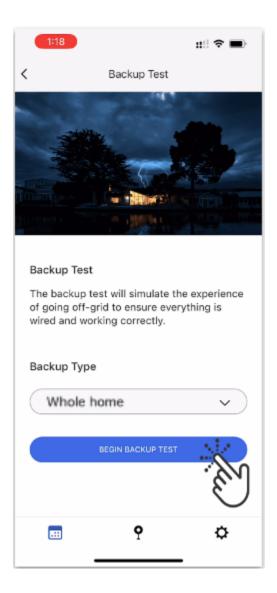
4. Tap **Backup Test** to simulate grid outage



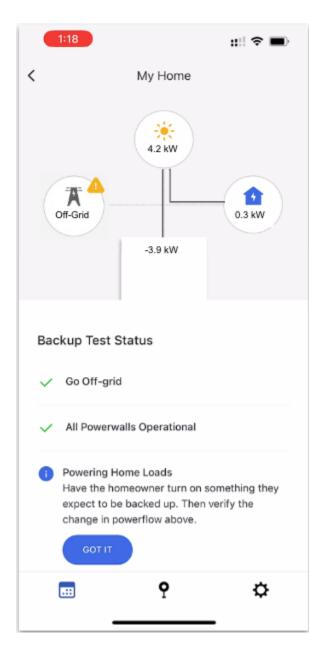
5. Select the **Backup Type:** Whole home.



6. Tap **BEGIN BACKUP TEST**



7. On the backup test page, verify the power flow represents what is happening on site.



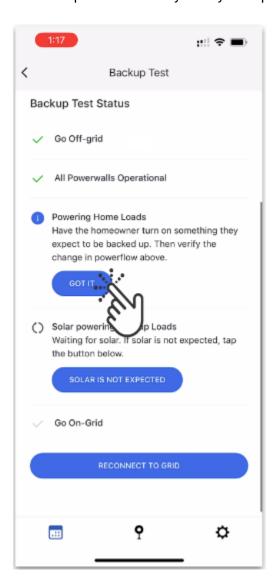
• All values must add up to be within 100 W of the home consumption.

Example:

- Solar = 4.2 kW
- Grid = Off Grid
- Powerwall (charging) = -3.9 Kw
- Home Consumption= 0.3 Kw
- $\bullet \quad 4.2 + 0 3.9 = 0.3$

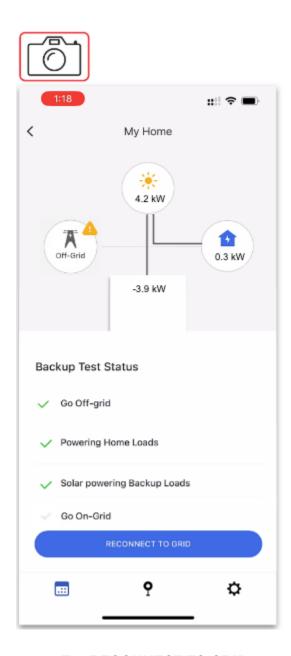
NOTE: The home consumption and solar values will never be negative. A negative home or solar value will indicate there is a CT installation error. Grid will show 0 kW (zero) and Powerwall values may be positive or negative based on import/export or charging/discharging.

8. Tap **Got It** to verify the system powering home loads.

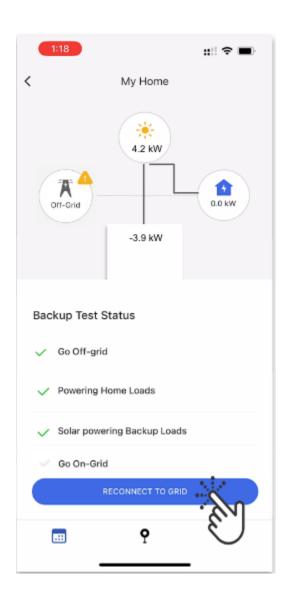


NOTE: If the PW3 charge is at 100% and can cover home consumption, the solar production value will not populate. Tap **SOLAR IS NOT EXPECTED**, if applicable.

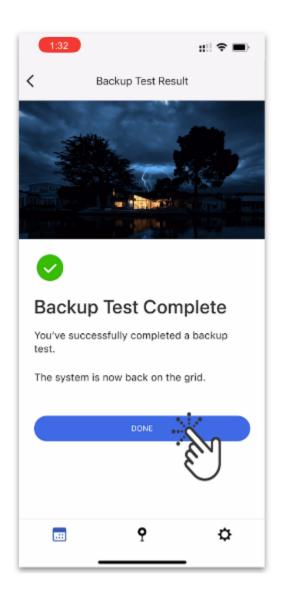
8. Verify Backup Test Status has a green check mark.



9. Tap **RECONNECT TO GRID** to complete the backup test.

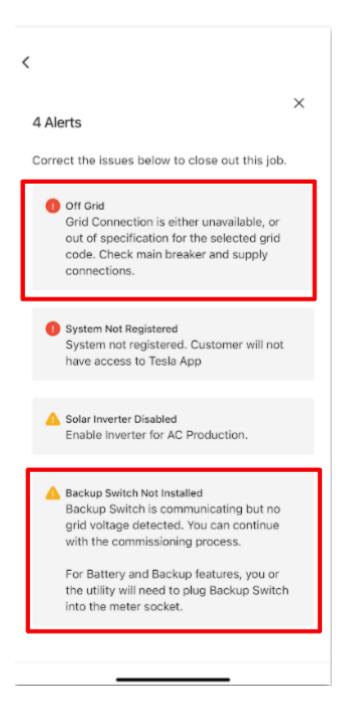


10. Tap **DONE**



Step 15: Backup Switch not yet installed (completed later by utility)

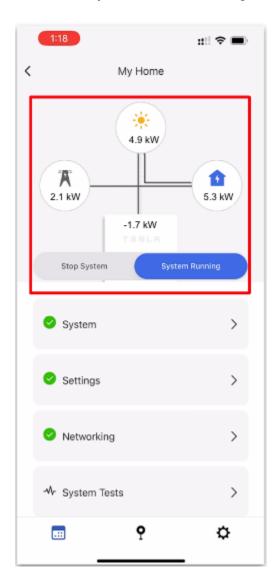
- A backup test will not be possible without the Backup Switch installed by the utility company.
- The system shall be left running so that the customer can complete their registration and perform a backup test via their app when it is installed.
- Normal powerflow data will not be present until the back up switch is installed. Any abnormal numbers or flow shall be ignored.



NOTE: Warning "Back up switch not Installed" and Alert "Off Grid" will remain present until the utility installs the unit and shall be ignored along with powerflow data.

Step 16: Registration

NOTE: The system must be running to complete registration.

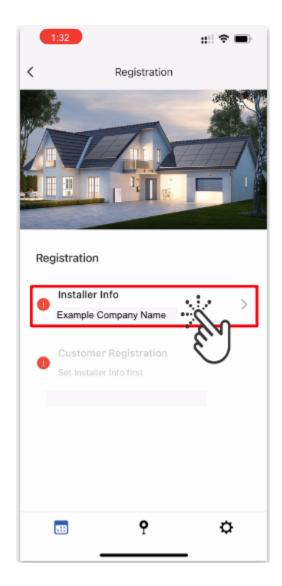


Company:

1. Navigate to the commissioning page and verify the system operation and grid connection.

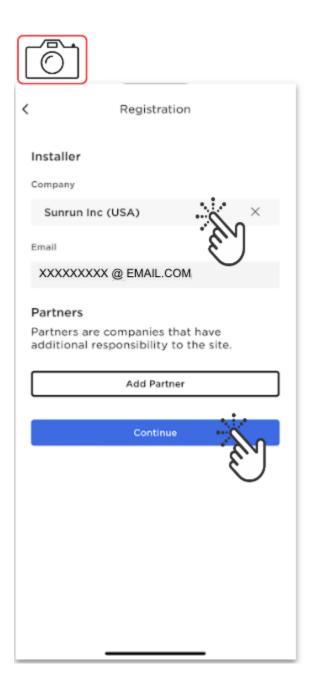


2. Tap Installer Info



NOTE: The Email section will auto-populate based on the login information provided and cannot be edited.

• Under Company, verify Sunrun, Inc. (USA) is selected. Tap Continue.



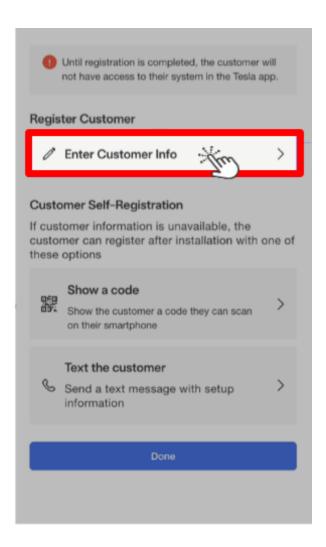
IMPORTANT: Partners installing systems for Sunrun shall use their company name and Email as the Installer information:

Tap Add Partner > enter Sunrun Inc. (USA) > tap Done.



Customer:

1. Under Registration, tap **CUSTOMER IS UNAVAILABLE.**



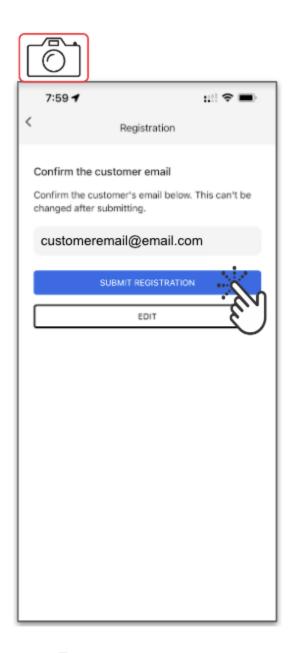
2. Complete the form and tap CONTINUE.



IMPORTANT: The email entered must match the email the customer uses for their Tesla App or they will not be able to see the system.

The customer address must match the address on the plan set.

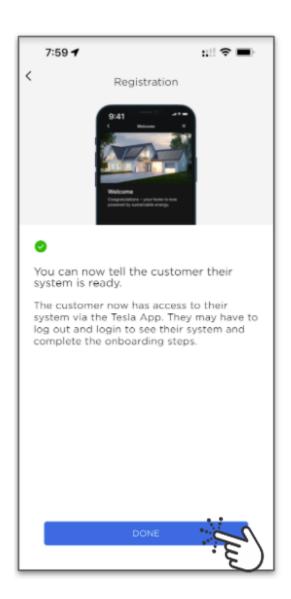
3. Confirm the customer's email address and tap SUBMIT REGISTRATION.



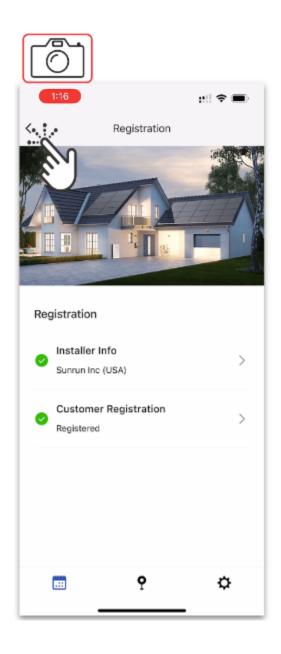
The customer can now register the system with the Tesla Homeowner App.

NOTE: If the customer cannot access their system, Tesla support must be contacted for assistance at 1 (650) 963 - 5655.

4. Tap **DONE** to continue.



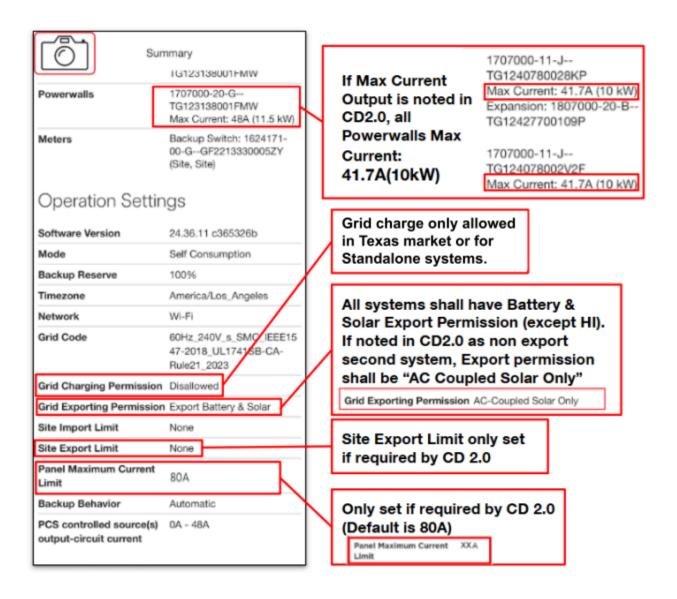
5. Tap the back arrow



Step 17: Summary Report

- From the bottom of the main screen tap Summary
- Take a screenshot of the summary screen

NOTE: This will take at least two screenshots to capture the entire summary.



Step 18: System Leave State - Customer Activation

- 1. Leave all system disconnects in the **ON** position.
- 2. Leave the battery ON/OFF switch in the **ON** position.
- 3. If multiple Powerwalls are installed, ensure that all are left **ON**.

IMPORTANT: Power to the Gateway shall remain powered ON regardless of remote or non-remote activation. Turning power off to the Gateway will de-energize all connected backup panels and circuits.

4. The customer will enable solar export once PTO is granted via the Tesla Homeowner App.

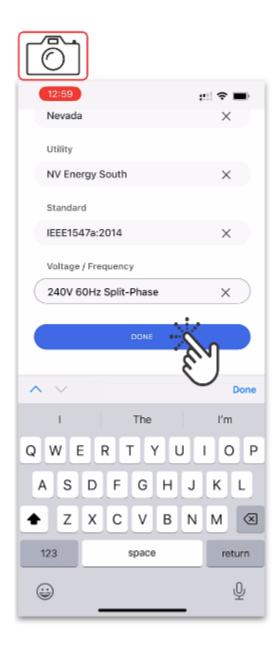
IMPORTANT: The customer must have the system registered to access through the Tesla Homeowner App.

Required Photos

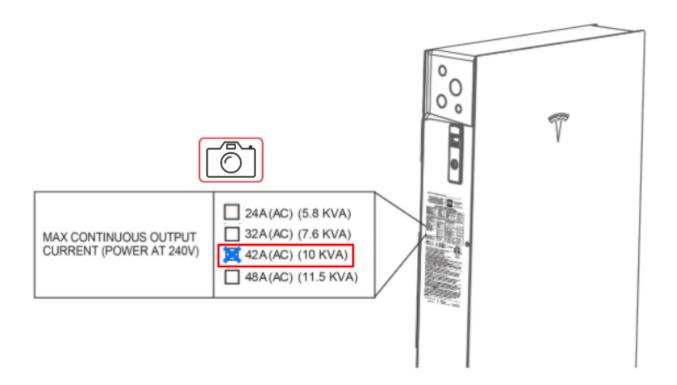
Successful connection test



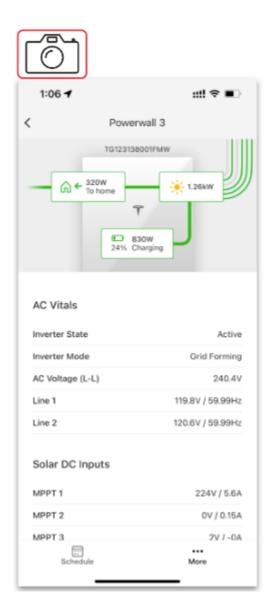
Set Grid Code



• Configured maximum current output on the Powerwall 3 product label using a paint pen



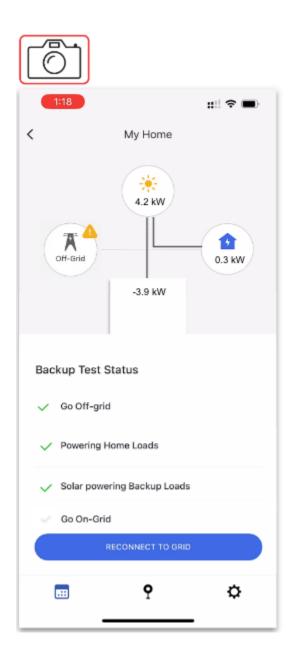
Inverter State



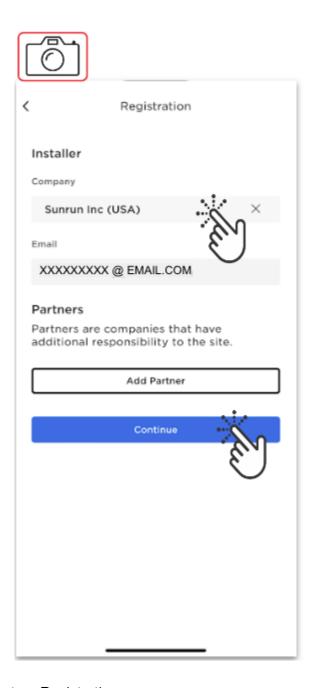
• Accurate Power Flow Screen



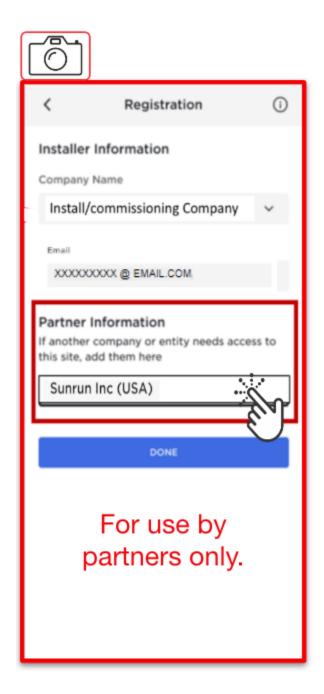
Backup Test Status



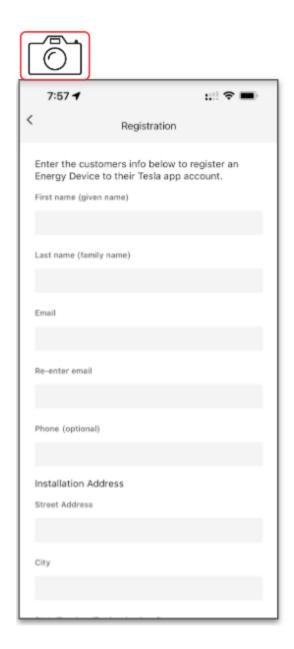
Registration



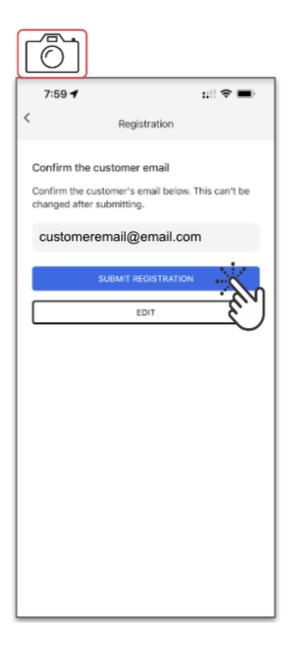
• (If Applicable) Partner Registration



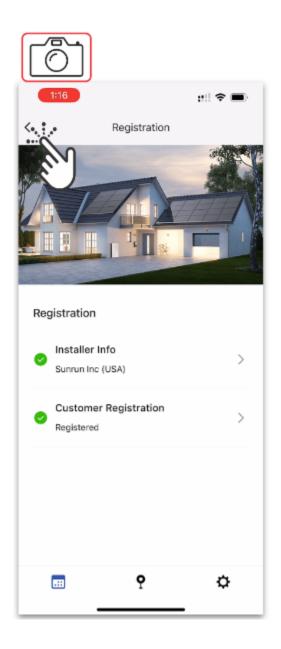
Registration: Customer Info



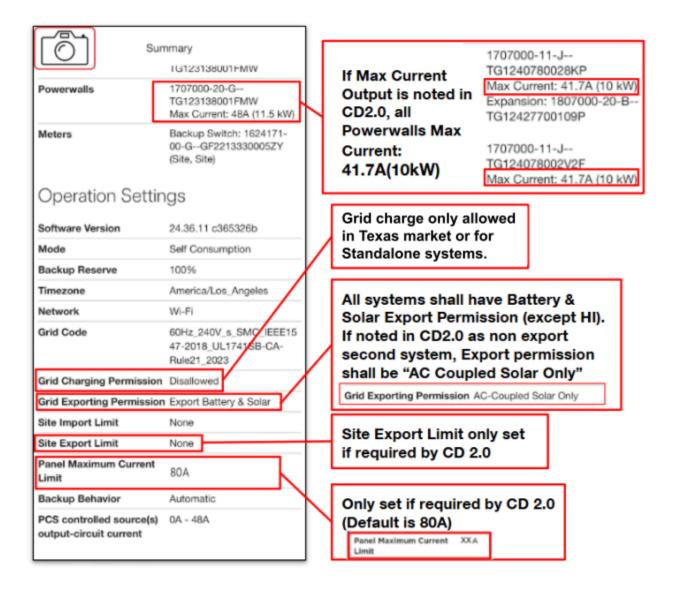
• Customer Email Confirmation



• Complete Registration



Summary Report



Verification

- All network settings are correct with a minimum of two communication sources connected.
- All applicable updates are complete.
- Meters are connected and communicating.
- Commissioning has been completed successfully, if commissioning is performed before Backup switch is installed, alerts will be present for Off Grid and Backup Switch not located.
- The system is fully operational, if a Backup Switch is to be installed by the utility after commissioning, Backup tests will not be possible.

- The system backup functionality has been verified within the Tesla One app backup test.
- All registration information is correct and the customer has successfully registered the system.
- All settings and serial numbers on the Summary Screen are correct.
- System is left in the correct leave state.

Product Feedback

Use the links below to provide feedback on SOPs and/or products:

- SOP/Work Instruction Feedback
- Product Feedback

Approvals

Approvals			
Prepared by: N. Rumley 3/4/2024 Training: D. Takahashi 5/6/2024			
Reviewed by: J. Costner	5/17/2024	Safety:	

Electrical:		Structural:	
Design:		CRT: Z.Thibert	12/18/2024
Product:		Other:	
Quality: A. Chiu	5/6/2024	Other:	

Revision History

Revision	Date	Description	Approval
1	5/17/2024	Initial Release	J. Costner
2	8/13/2024	Revised per CO-0115	J. Costner
3	9/24/2024	Revised per CO-0117	J. Costner
4	11/19/2024	Revised per CO-0118	J. Costner

5	12/12/2024	Revised per CO-0124	N. Rumley
6	1/15/2024	Revised Per CO-0127	N. Rumley
7	6/18/2025	Revised Per CO-0141	N. Rumley
8	9/3/2025	Revised per CO-0147	J. Costner

SUPPLY Document Control Change Order

INS-FRM-0001-03

Field Operations

Change Order number: CO-0115	New Revision: 02	Submitted By & Date: Zac Thibert 8/12/2024

Document Title and Number: Tesla Powerwall 3/Gateway 2 or Backup Switch: Commissioning - INS-SOP-0233

Reason for Change (in detail): The summary report in the Tesla One app is sufficient to cover multiple screenshots and reduce the number required at installation.

Description of Change (in detail):

- Photo icons were removed to align the the Central Review Team's requirements for photo submissions at job completion.
- Added step for capturing the summary report in multiple screenshots

References: N/A				
Effectivity: (Installations in field, New ins	tallations, Work in Progress)			
All new Tesla product installations.				
Other documents affected: (Spanish vers	sion, other SOPs, Work Instructions)			
Current versions				
Approvals	Training:	Quality:		
Product: J. Costner 8/13/2024 Electrical: Structural:				
Other:	Other:	Other:		

Field Operations

Change Order number: CO-0117	New Revision: 03	Submitted By & Date: N. Rumley 9/24/2024	
Document Title and Number: Tesla F INS-SOP-0233	owerwall 3 /Gateway 2 or Backup Sw	itch : Commissioning -	
Reason for Change (in detail): Gatew	ay 3 was released and included in this sir	ngle document for commissioning	
 Title of SOP changed from: Tesla Powerwall 3/Gateway 2 or Backup Switch: Commissioning - INS-SOP-0233 to: Tesla Powerwall 3: Commissioning - INS-SOP-0233 Information throughout the SOP was updated to detail Gateway 2 - specific settings, and generalize other Gateway settings when common procedures apply. 			
References: N/A			
Effectivity: (Installations in field, New installations, Work in Progress) All new Tesla product installations.			
Other documents affected: (Spanish version, other SOPs, Work Instructions) Current versions			
Approvals	Training:	Quality:	
Product: J. Costner 9/24/2024	Electrical:	Structural:	

Other:	Other:	Other:
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Document Control Change Order

INS-FRM-0001-03



Docui	Territ Control Change Order	INS-FRM-0001-03	Field Operations
Change Order number: CO-0118	New Revision: 04	Submitted By & Date: N. R	tumley 11/12/2024
Document Title and Number:Tesla Powerwa	all 3: Commissioning - INS-SOP-0233	3	
Reason for Change (in detail): The Tesla Remot with proper monitoring.	e Meter became available for monitoring remote l	oads and allowing for partial home ba	ackup systems to be installed
Description of Change (in detail): Step 9: Energy Metering was updated to	reflect the installation and wiring of this new mete	er.	
References: N/A			
Effectivity: (Installations in field, New installational new Tesla Powerwall 3 installations.	ns, Work in Progress)		
Other documents affected: (Spanish version, o Current versions	ther SOPs, Work Instructions)		
Approvals	Training:	Quality:	
Product: J. Costner 11/19/2024	Electrical:	Structural:	
Other:	Other:	Other:	

Document Control Change Order		surru
		Field Operations INS-FRM-0001-03
Change Order number: CO-0127	New Revision: 06	Submitted By & Date: N.Rumley 01/15/2025
Document Title and Number: Tesla Powerwall 3: Commissioning - INS-SOP-0233		

Reason for Change (in detail): Added export permissions to avoid confusion about what settings need to be applied during commissioning. Previously there was no specific indication for setting export permissions.					
Description of Change (in detail): Added reflect Solar and Battery export allowed		dated summary screenshot to			
References:					
Effectivity: (Installations in field, New ins	tallations, Work in Progress)				
Installation					
Other documents affected: (Spanish vers	sion, other SOPs, Work Instructions)				
Spanish?					
Approvals	Approvals Training: Quality:				
Product: N. Rumley 1/15/2025 Electrical: Structural:					
Other: Other: Other:					

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Document Control Change Order

SUNRUN

Field Operations

INS-FRM-0001-03

Change Order number: CO-0141

New Revision: 07

Submitted By & Date: N. Rumley 06/18/2025

Document Title and Number: Tesla Powerwall 3: Commissioning - INS-SOP-0233

Reason for Change (in detail): IL markets will need details for derating Max Current Output, CA markets will need process for NESS (NEM integrity) re order process, new summary details

Description of Change (in detail): Export permissions changed to include "AC coupled Solar only", PCS section updated with Max current limitation to 10kW. Metering section moved before Grid code and export permissions. Summary page detailed with CD2.0 callouts.

References: Tesla Device setup				
Effectivity: (Installations in field, New installations, Work in Progress) Installations, Powerhouse				
Other documents affected: (Spanish version, other SOPs, Work Instructions) N/A				
Approvals Training: Quality:				
Product: N. Rumley 06/18/2025	Electrical:	Structural:		
Other:	Other:	Other:		

SURUN **Document Control** Change Order **Field Operations** INS-FRM-0001-03 Change Order number: CO-0147 Submitted By & Date: J. New Revision: 08 Costner 9/3/2025 Document Title and Number: Tesla Powerwall 3: Commissioning - INS-SOP-0233 Reason for Change (in detail): Standalone configuration enabled new summary details added Description of Change (in detail): New sub-section within step 12 for Solar Installation Type added to cover settings for standalone configuration. Summary page detailed with CD2.0 callouts. References: Tesla Device setup Effectivity: (Installations in field, New installations, Work in Progress) All standalone installations. Other documents affected: (Spanish version, other SOPs, Work Instructions) N/A Quality: Training: **Approvals**

Product: J. Costner 9/3/2025	Electrical:	Structural:
Other:	Other:	Other: