

LG

North America

All In One System

- 120/240V Split Phase
- 60Hz

HOME 5/8

ENERGY STORAGE

SYSTEM

QUICK COMMISSIONING GUIDE

Home 5/8

All In One Energy Storage System

Commissioning Quick Guide

- 1. Power Up & Set Up**
- 2. Commission**
- 3. ThinQ_App**
- 4. Product Specification**

Home 5/8 Quick Commissioning Guide

Power Up & Set Up

Power up the Home 5/8 per the QIG, follow these steps exactly, please.

- 1** In the All-In-One (AIO) battery enclosure(s), turn ON the DC circuit breaker
- 2** In the Smart Energy Box (SE Box)
 - a. Turn ON the Main Service circuit breaker
 - i. If Partial Backup, turn ON Main Service circuit breaker outside of SE Box
 - ii. Wait for touch screen to turn on (up to 30 seconds or so)



- b. Turn ON the circuit breaker for the AIO(s)
 - c. Turn ON the circuit breaker for the PV inverter input
- 3** Return to the AIO “battery” enclosure
 - a. Press and release the Power button, it will remain “pressed in” - ON position
 - b. Press and HOLD the Black Start Button, until you hear click-click (up to about 6 seconds)
- 4** Return to the SE Box, continue with Touch Screen Setup

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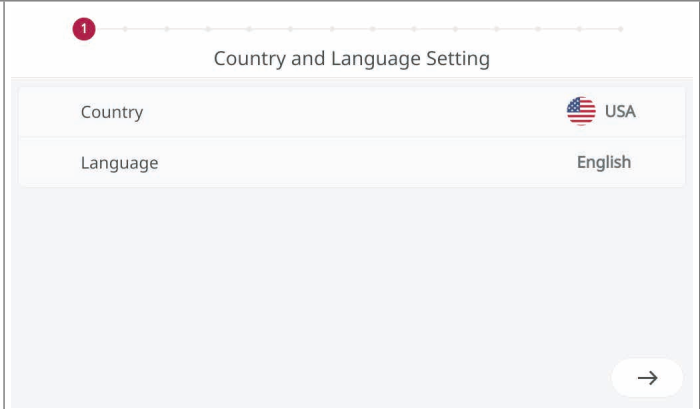
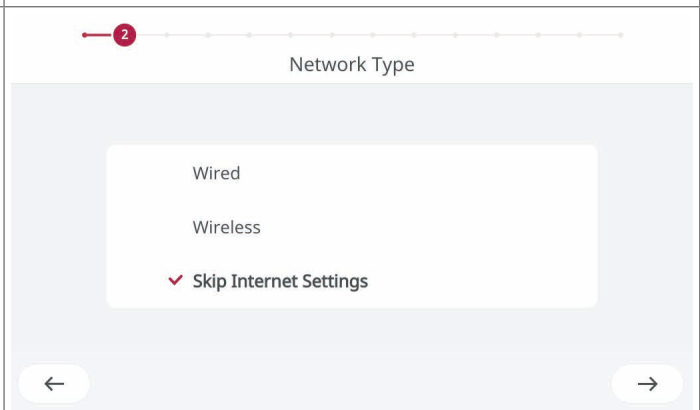
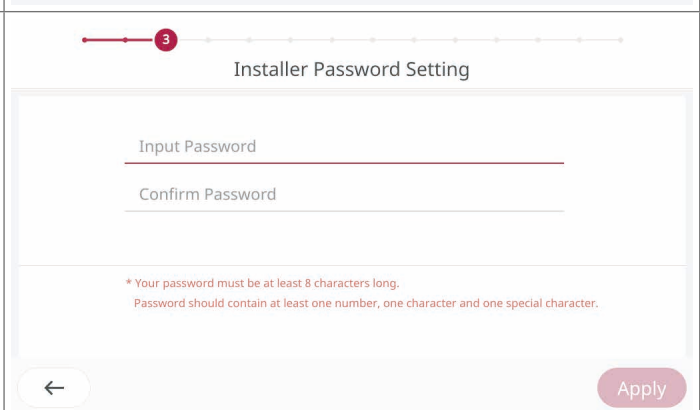
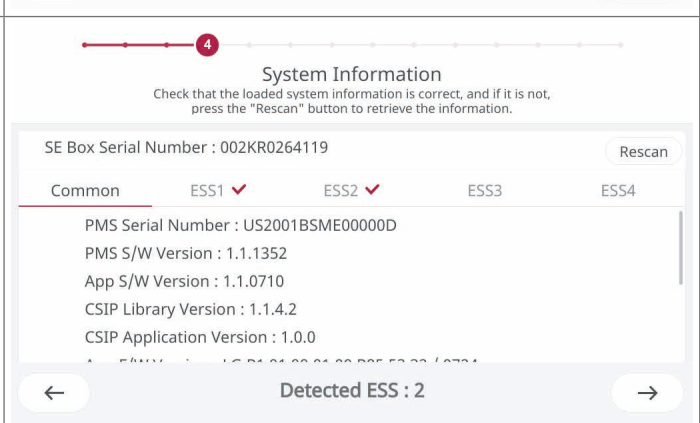
Commission

Quick Commissioning Guide (QCG)

Set up | commission test | connect to Internet | enable system | ThinQ homeowner App setup

Easy to use TOUCH Screen

Full details in the Installation Manual > Installer and User Settings > page 89

<p>1 Country and Language</p> <p>a. Touch arrow to advance</p>	
<p>2 Network / Internet Connection</p> <p>a. SKIP Internet Connection for now</p> <p>b. Home 5/8 does not require Internet, App or laptop to commission</p> <p>c. Touch arrow to advance</p>	
<p>3 Installer Password Creation</p> <p>a. 8 characters minimum</p> <p>b. Requires (1) number, (1) letter, (1) special character</p> <p>c. Allows access to detailed PCS settings</p> <p>d. Write password on back of SE Box safety cover if desired</p> <p>e. Most installers prefer to use same password for all Home 5/8</p>	
<p>4 System Information Check</p> <p>a. Number of AIO (ESS) detected</p> <p>b. Serial numbers</p> <p>c. Software versions</p> <p>d. Touch arrow to advance</p> <p>e. ESS model name in each ESS tab.</p> <ul style="list-style-type: none"> - Home5 : RA500K16A11 - Home 5/8 : RA768K16A11 	

Home 5/8 Quick Commissioning Guide

Commission

<p>5 Firmware</p> <ol style="list-style-type: none"> Touch arrow to advance Firmware update will advance after system is enabled, and registered in ThinQ app No need to take vital install time to update here 	
<p>6 Date and Time Settings</p> <ol style="list-style-type: none"> Touch each field to update Auto Date and Time will set after Home 5/8 is connected to the Internet 	
<p>7 System Name, Install Date</p> <ol style="list-style-type: none"> Touch/Enter System Name Most installers prefer homeowner last name/city/ESS, i.e. Smith Chicago ESS Touch/Enter install date 	
<p>8 Utility Information</p> <ol style="list-style-type: none"> Touch/Enter utility company name Profile and Parameters are ok as is, for this stage 	

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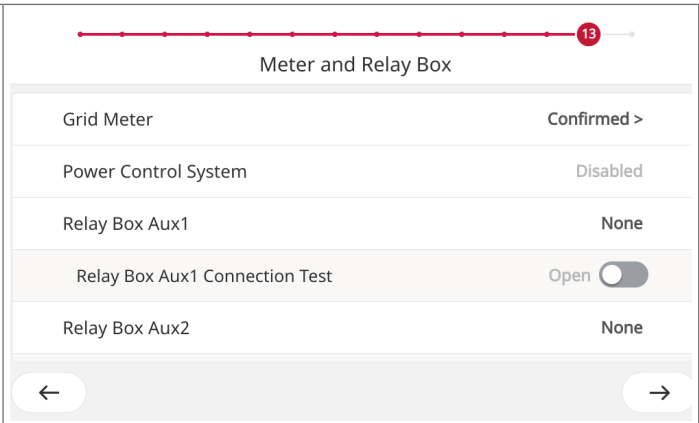
Commission

<p>9 PV Inverter Information</p> <ol style="list-style-type: none"> Touch/Enable PV use Touch/Enter PV inverter AC output nameplate rating Touch/Enter PV DC array size To verify the power in PV meter 	
<p>10 External E-Stop</p> <ol style="list-style-type: none"> If installed, enable this button Port 1-2 can be skipped at this stage 	
<p>11 Operating Mode</p> <ol style="list-style-type: none"> Touch / choose Backup Only Mode for this stage Easily updated later, in ThinQ homeowner monitoring App 	
<p>12 Backup and Battery Setting</p> <ol style="list-style-type: none"> Touch slider to "Enabled" Backup Operation Change related battery parameters "If the Backup Operation is "Disabled", the installer cannot be updated related battery parameters. Touch Reserve Mode SoC Change to 10% Can be updated later if needed Touch arrow to return to Setup Touch arrow to advance 	

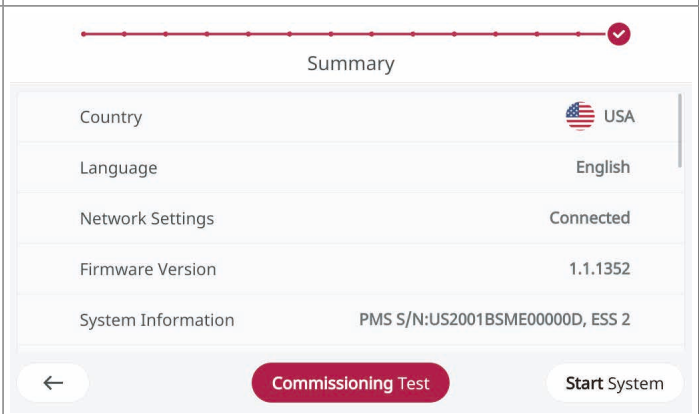
Home 5/8 Quick Commissioning Guide

Commission

- 13 Meter and Breaker Size**
- a. Touch Grid Meter
 - b. To verify the power in L1 and L2
 - c. If you set the PCS (Power Control System) function, activate the Import Only function after entering the Power Control System and confirm.
 - d. If you set up a Relay Box, proceed with a normal connection test after setting the Type.
 - e. Touch arrow to advance



- 14 Summary**
- a. Touch Commissioning Test

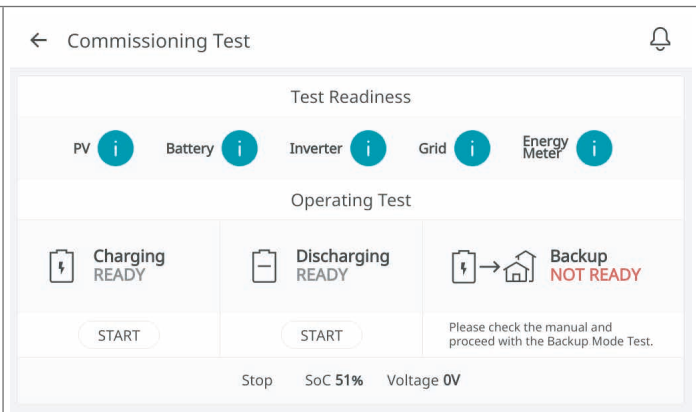


Home 5/8 Quick Commissioning Guide

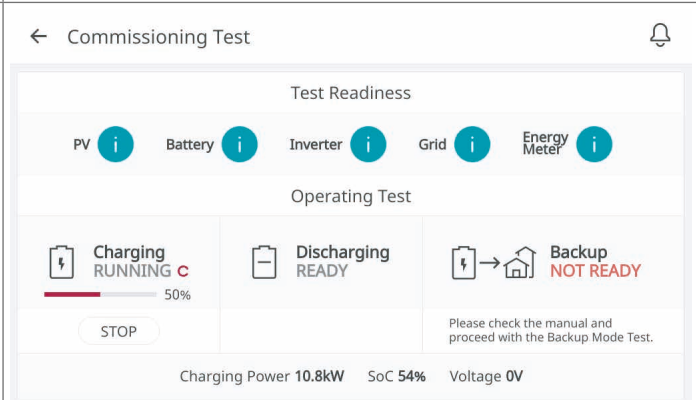
Commission

Commissioning Test

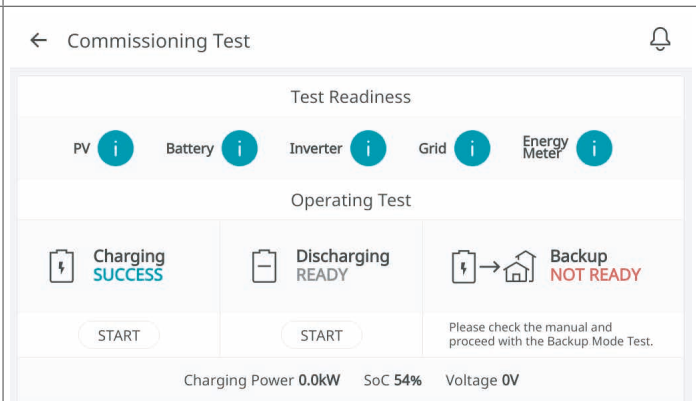
- All items require **green circle** to proceed.
- If all **green**, touch Charging (READY) 5-minute wait period countdown, then test begins
- If **FAIL** condition on any item (**red triangle**), touch triangle to see details, pursue error codes (Page 116 – Install Manual)



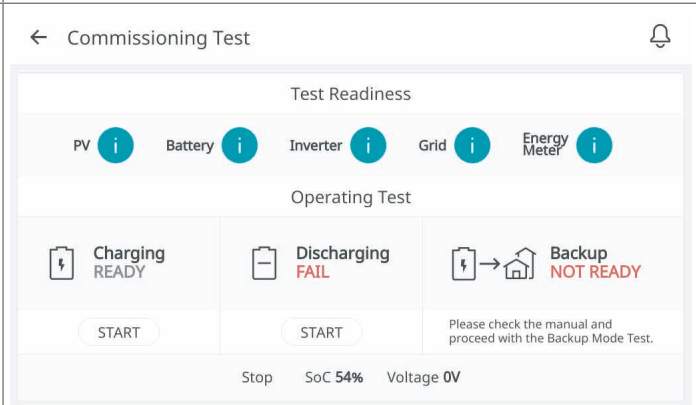
- Charging test will show "RUNNING", and progression bar with percent complete



- Complete test will return **SUCCESS**. Touch Discharging (READY), test will begin immediately



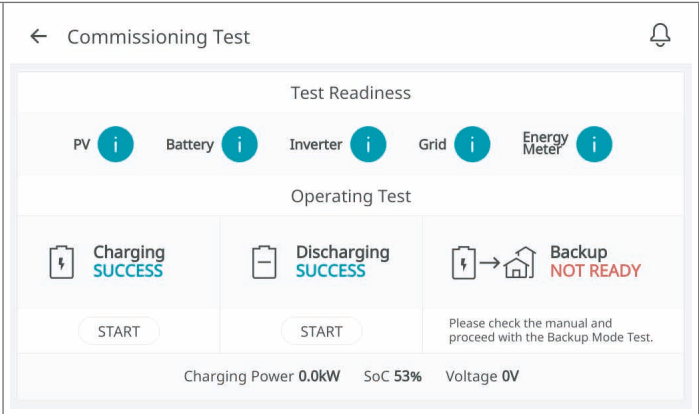
- If **FAIL** result is produced, touch the (Discharging) test button to display detailed info and pursue error codes (Page 116 in Install Manual)



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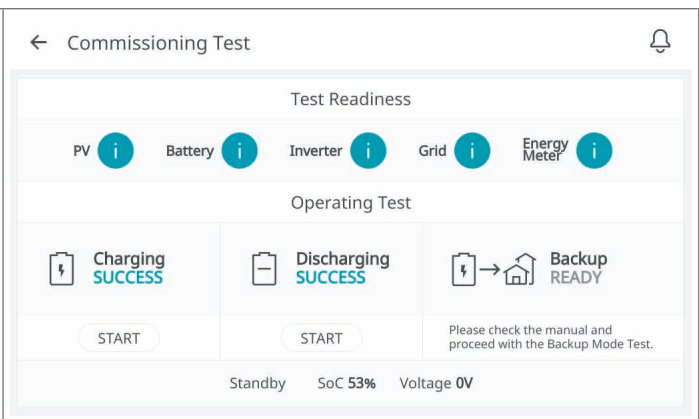
Commission

- When Charging and Discharging Tests are complete, with **SUCCESS**, Backup test will show **READY**



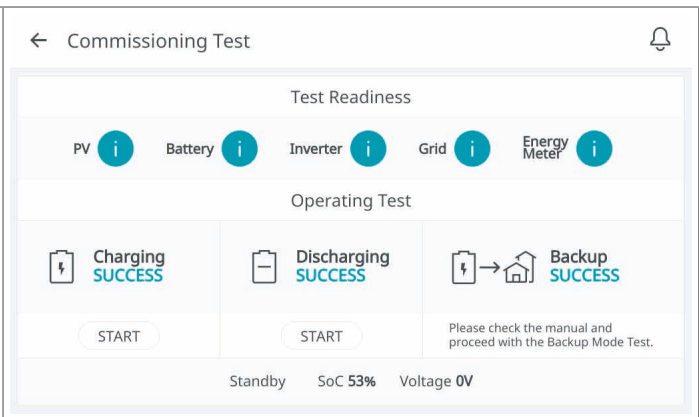
Backup Test

- Open the Main Service breaker to simulate grid down condition, to activate Backup Operation.
- Transition to Backup <100ms
Commission Test Status will be **RUNNING**



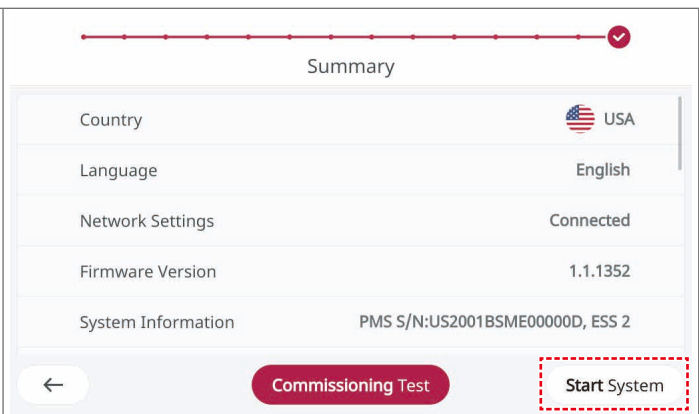
Return to Grid Power, end Backup Test

- Turn on Main Service circuit breaker to restore grid power, look for **SUCCESS** under Backup
- Touch arrow to return to Summary Screen



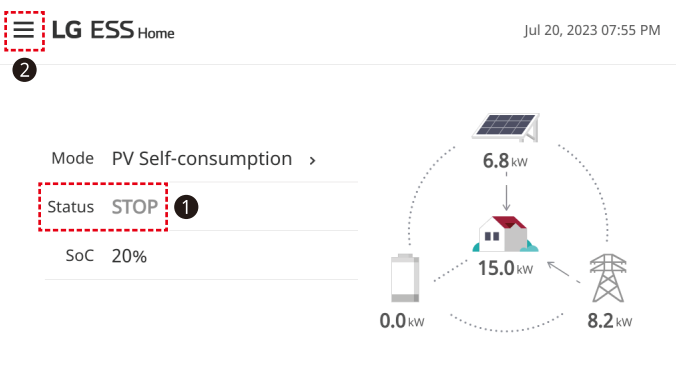
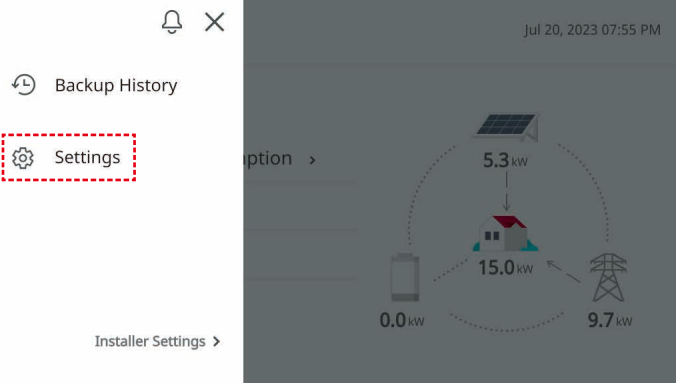
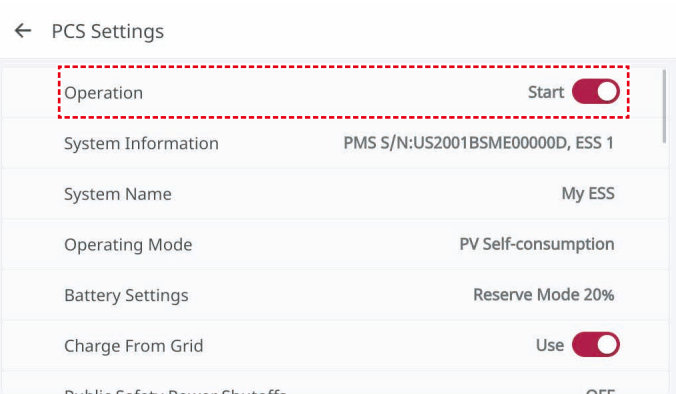
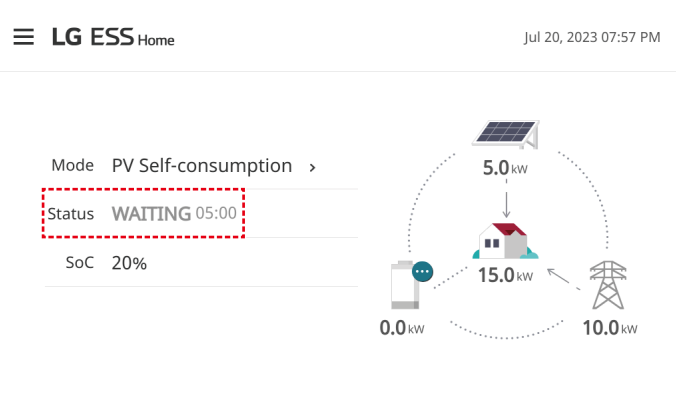
Start System

- Touch Start System to go to Home Screen



Home 5/8 Quick Commissioning Guide

Commission

<ul style="list-style-type: none"> • Home Screen • ❶ Status will be STOP • ❷ Touch Menu bars 	
<ul style="list-style-type: none"> • Touch Settings > PCS Settings 	
<ul style="list-style-type: none"> • Touch/Enable Start to Enable System • Touch arrows to return to Home Screen 	
<ul style="list-style-type: none"> • 5-minute waiting period to active Status (Charging, etc) 	

Home 5/8 Quick Commissioning Guide

Commission

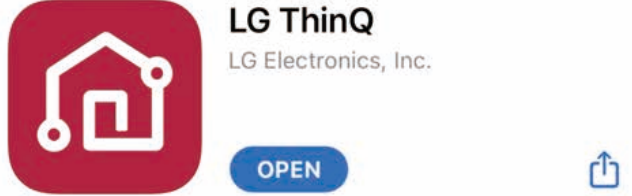
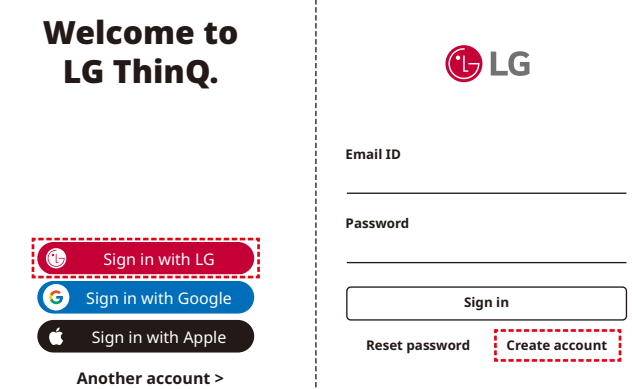
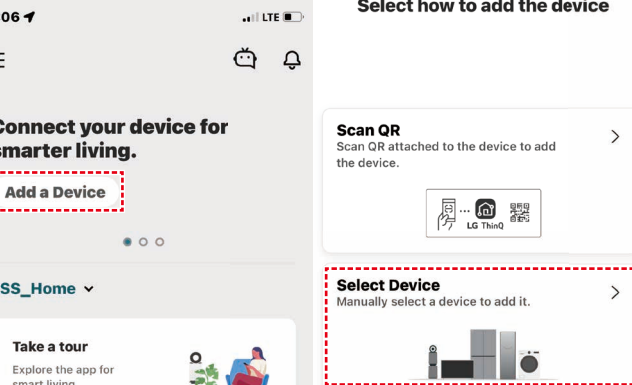
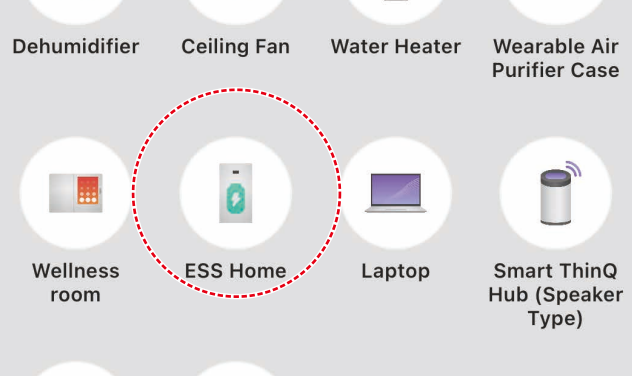
Enable Internet Connection

<ul style="list-style-type: none"> • Touch Menu bars 	
<ul style="list-style-type: none"> • Touch Settings 	
<ul style="list-style-type: none"> • Touch General Settings • Touch Network Settings • Touch Wired or Wireless • For Wireless, choose homeowner SSID, enter wifi password • Note - use only 2.4GHz wifi band • Touch arrows to return to Home Screen 	

Home 5/8 Quick Commissioning Guide

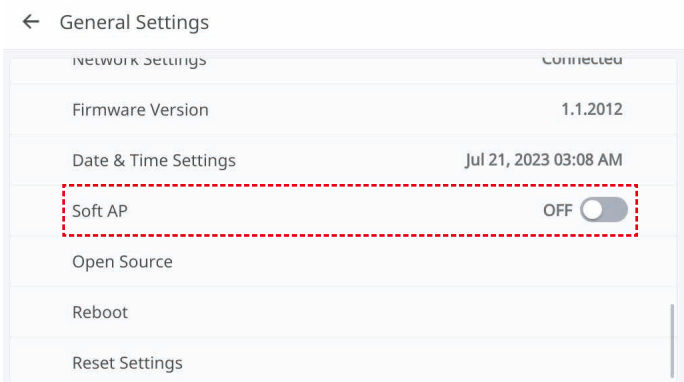
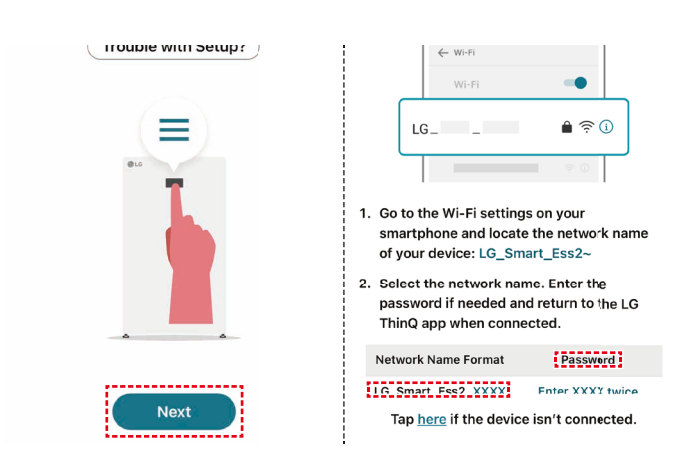
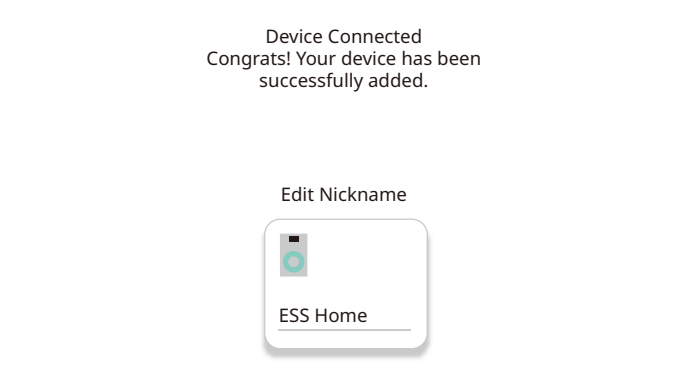
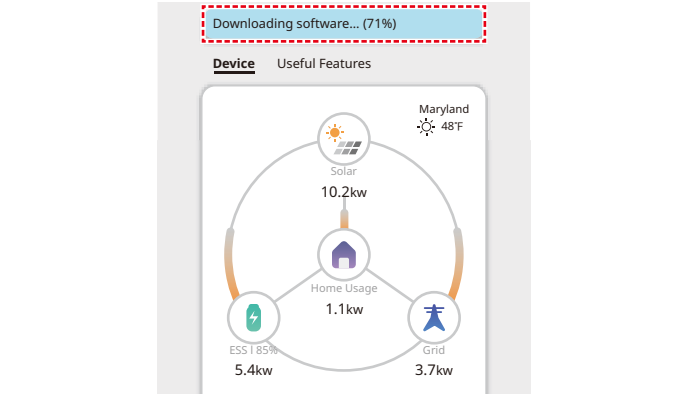
ThinQ App

ThinQ App – Register Home 5/8 ESS

<ul style="list-style-type: none"> • Download LG ThinQ App • iOS or Android App store 	 <p>The image shows the LG ThinQ app listing on an app store. It features the LG ThinQ logo (a red house icon with a white circuit pattern), the text "LG ThinQ" and "LG Electronics, Inc.", a blue "OPEN" button, and a share icon.</p>
<ul style="list-style-type: none"> • Create Account on ThinQ • Suggest "Sign in with LG" Touch Create Account • Use homeowner email address Set password (8 characters min. - upper/lower case, number, special character) 	 <p>The image shows the "Welcome to LG ThinQ" sign-in screen. On the left, there are three sign-in options: "Sign in with LG" (highlighted with a red dashed box), "Sign in with Google", and "Sign in with Apple". Below them is a link for "Another account >". On the right, there is a form with fields for "Email ID" and "Password", a "Sign in" button, and links for "Reset password" and "Create account" (highlighted with a red dashed box).</p>
<ul style="list-style-type: none"> • Add a Device • Touch Add a Device • Touch Select Device • Touch Next 	 <p>The image shows the "Add Device" screen in the ThinQ app. The top section says "Connect your device for smarter living." and has an "Add Device" button highlighted with a red dashed box. Below this is a "Take a tour" section. The bottom section is titled "Select how to add the device" and has two options: "Scan QR" (with a QR code icon) and "Select Device" (with a red dashed box around it, indicating the next step). The "Select Device" option includes the text "Manually select a device to add it."</p>
<ul style="list-style-type: none"> • Touch ESS Home 	 <p>The image shows the home screen of the ThinQ app. It displays a grid of smart home categories: Dehumidifier, Ceiling Fan, Water Heater, Wearable Air Purifier Case, Wellness room, ESS Home (highlighted with a red dashed circle), Laptop, and Smart ThinQ Hub (Speaker Type).</p>

Home 5/8 Quick Commissioning Guide

ThinQ App

<ul style="list-style-type: none"> • Move to SE Box • On Home Screen, touch Menu bars Touch Settings > General Touch Soft AP to enable wifi Access Point 	
<ul style="list-style-type: none"> • Move back to homeowner smart phone and ThinQ App • Touch Next Follow directions here to connect phone to SE Box Soft wifi Access Point • Go to phone Settings > WiFi Look for SSID LG_Smart_ESS2_XXX network, and take note... Password is XXX entered two times • Touch this network to connect Enter Password • Return to LG ThinQ App and wait, watch... 	
<ul style="list-style-type: none"> • ESS Registration Proceeds • Once ThinQ is connected to SE Box Soft AP, ESS registration should proceed automatically. • Edit Nickname for Home 5/8 ESS if desired 	<p>Device Connected Congrats! Your device has been successfully added.</p> <p>Edit Nickname</p> 
<ul style="list-style-type: none"> • Firmware Update • It is possible that Firm/Software may download through the ThinQ App, and update on the Smart Energy Box and All-in-One enclosure ("the battery"). • If so, simply allow the process to proceed before making any other changes. 	

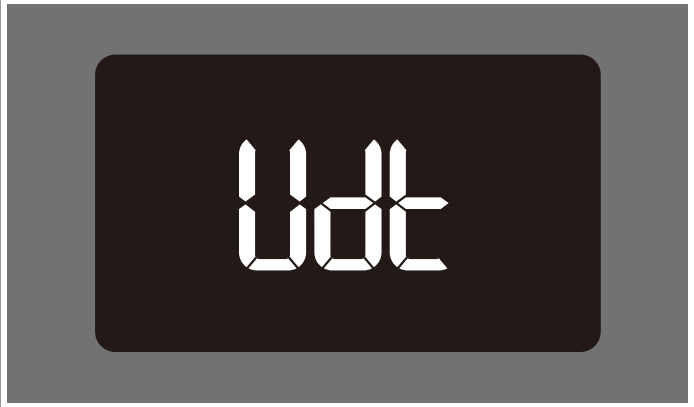
Home 5/8 Quick Commissioning Guide

ThinQ App

- Smart Energy Box Touch Screen
- During Firmware update.
- Percent complete, and progress bar.



- All-In-One Enclosure Display
- During Firmware update, "Udt".



Home 5/8 Quick Commissioning Guide

Product Specification

Specifications

Model	Home 5	Home 8
Nominal Voltage (L-N/L-L)	120/240V Split Phase	
Grid Frequency (Nominal)	60 Hz	
Rated AC Power (Discharging)	5.0 kVA ¹⁾	7.5 kVA ¹⁾
Rated AC Power (Charging)	5.0 kVA ¹⁾	5.4 kVA ¹⁾
Total Capacity	15.8 kWh	
Usable Capacity	14.4 kWh ²⁾	
Round Trip Efficiency	> 90 % ^{3) 4)}	
CEC Efficiency (PCS only)	98%	
Overvoltage Category	Category IV	
Interface	LED Display	

- 1) Adjustable, limited by the battery pack output capability such as charging/discharging power derating by the atmosphere temperature.
- 2) Usable energy may be limited for enhancing the battery lifespan and system stability. The capacity may decrease as the battery ages.
- 3) Verified according to LG Electronics conditions.
- 4) AC to battery to AC with 4.32 kW charging and 2.88kW discharging power at 25°C (77°F) at the beginning of life.



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