

# LG

North America

## All In One System

- 120/240V Split Phase
- 60Hz

# HOME 8

# ENERGY STORAGE

# SYSTEM

## COMMISSIONING QUICK GUIDE

# Home 8

# All In One Energy Storage System

## Commissioning Quick Guide

- 1. Power Up & Set Up**
- 2. Commission**
- 3. ThinQ\_App**
- 4. Product Specification**

# Home 8 Commissioning Quick Guide

## Power Up & Set Up

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**Power up the Home 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

# Home 8 Commissioning Quick Guide

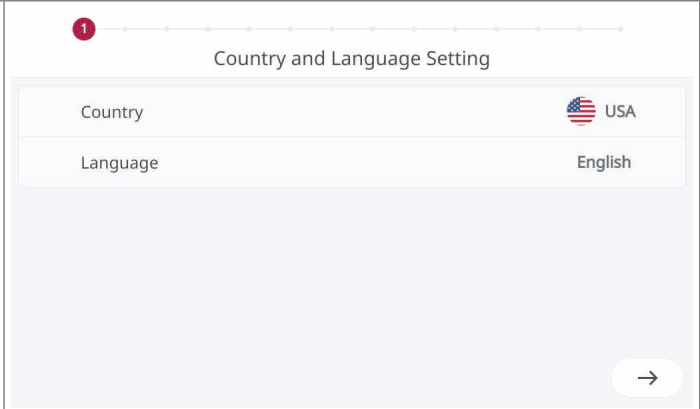
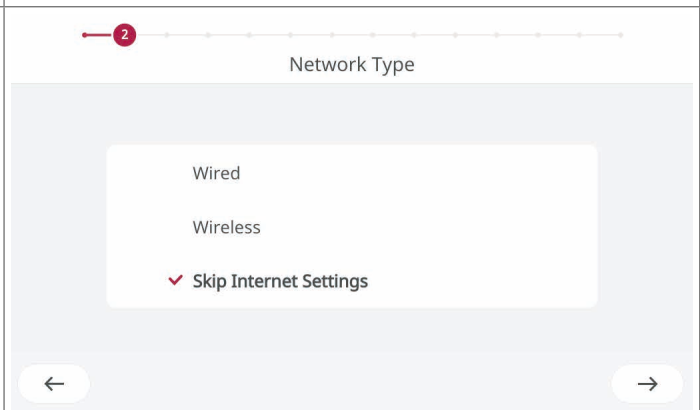
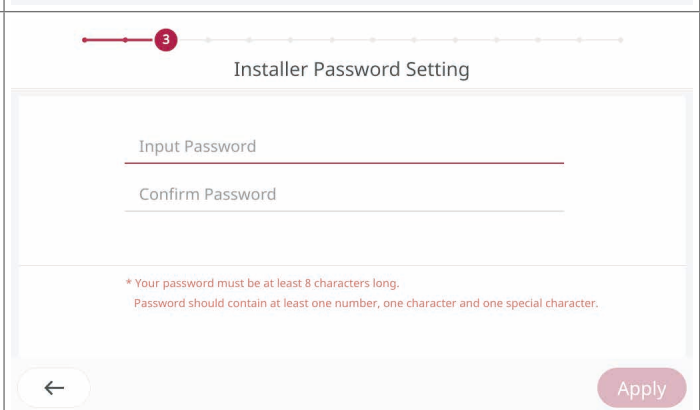
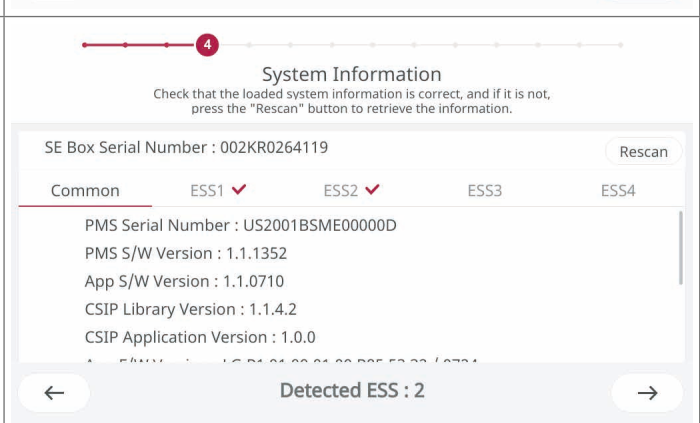
## Commission

### 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><b>1</b> Country and Language</p> <p>a. Touch arrow to advance</p>	
<p><b>2</b> Network / Internet Connection</p> <p>a. <b>SKIP</b> Internet Connection for now</p> <p>b. Home 8 does not require Internet, App or laptop to commission</p> <p>c. Touch arrow to advance</p>	
<p><b>3</b> 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 8</p>	
<p><b>4</b> 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>	

# Home 8 Commissioning Quick Guide

## Commission

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

# Home 8 Commissioning Quick Guide

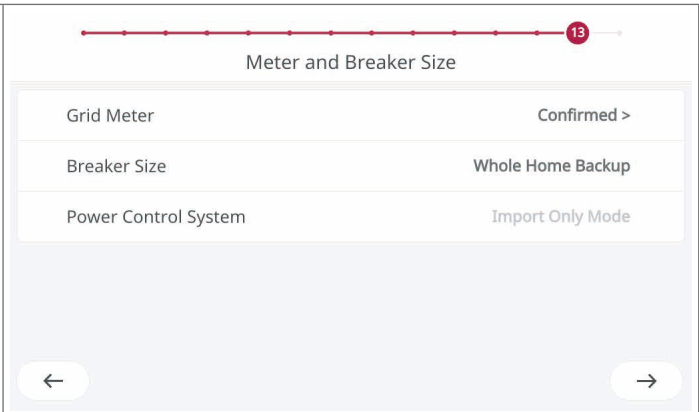
## Commission

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

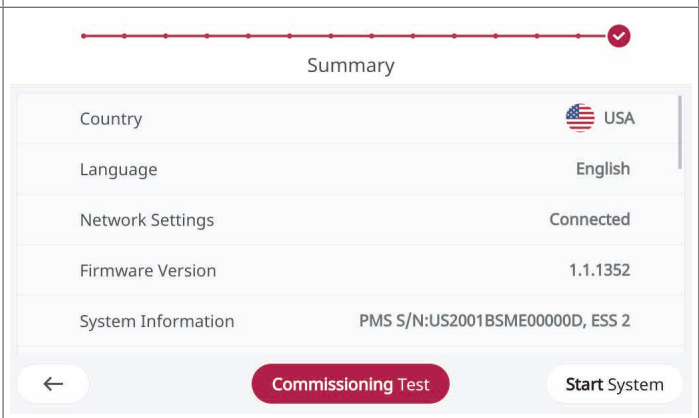
# Home 8 Commissioning Quick Guide

## Commission

- 13 Meter and Breaker Size**
- a. Touch Grid Meter
  - b. To verify the power in L1 and L2
  - c. Touch Breaker Size
  - d. The installer inputs the appropriate distribution panel and circuit breaker rated current based on the site requirements.
  - e. Touch arrow to advance



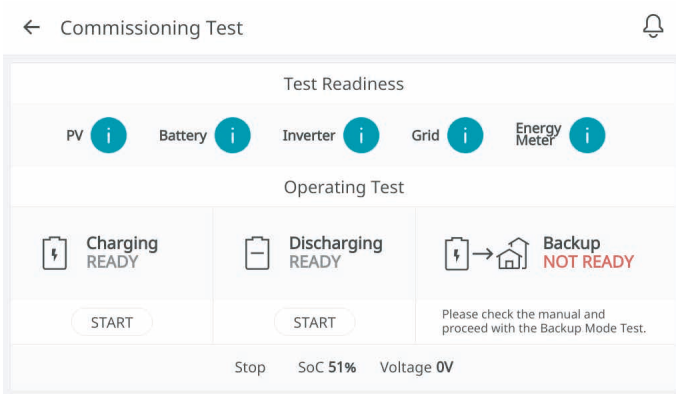
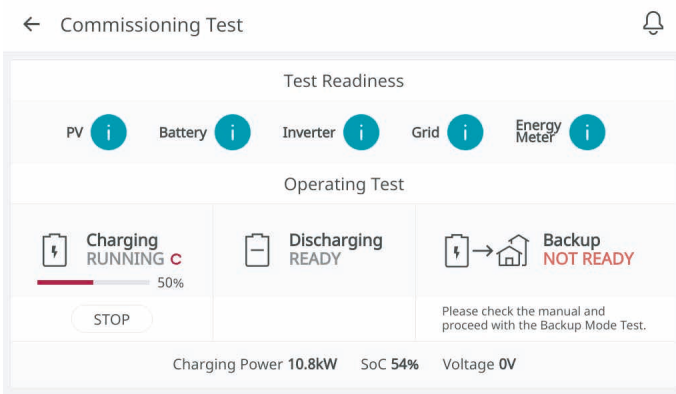
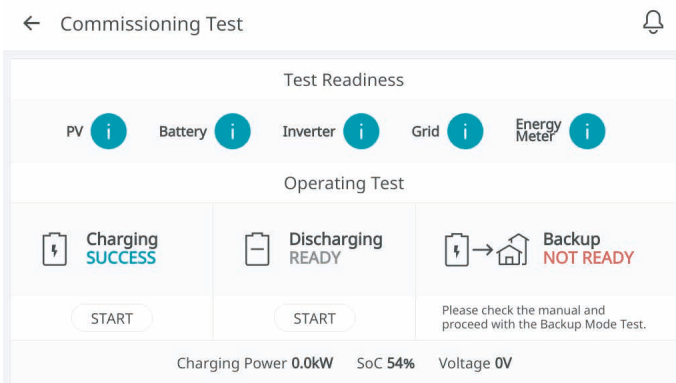
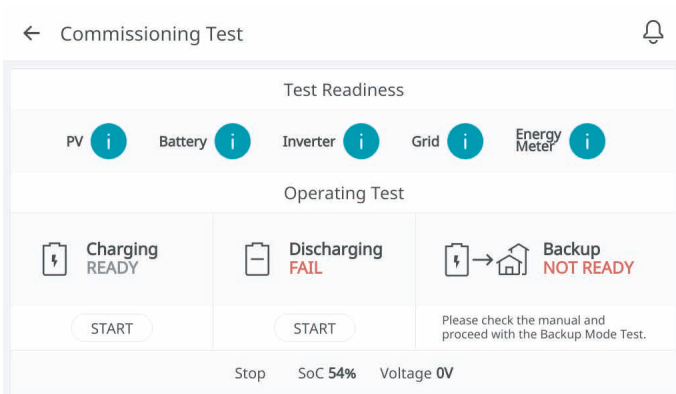
- 14 Summary**
- a. Touch Commissioning Test



# Home 8 Commissioning Quick Guide

## Commission

### Commissioning Test

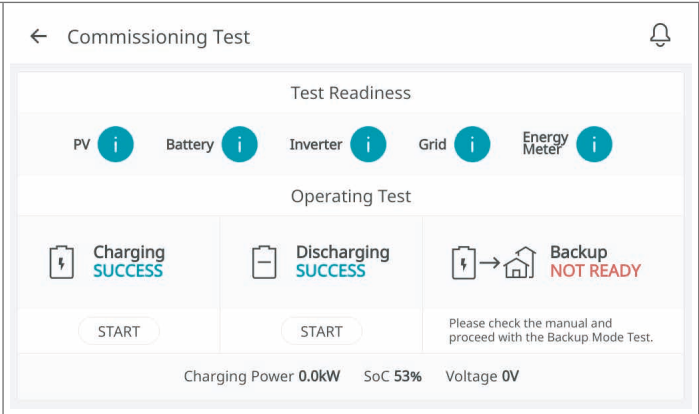
<ul style="list-style-type: none"> <li>All items require <b>green circle</b> to proceed.</li> <li>If all <b>green</b>, touch Charging (READY) 5-minute wait period countdown, then test begins</li> <li>If <b>FAIL</b> condition on any item (<b>red triangle</b>), touch triangle to see details, pursue error codes (Page 116 – Install Manual)</li> </ul>	
<ul style="list-style-type: none"> <li>Charging test will show "RUNNING", and progression bar with percent complete</li> </ul>	
<ul style="list-style-type: none"> <li>Complete test will return <b>SUCCESS</b>. Touch Discharging (READY), test will begin immediately</li> </ul>	
<ul style="list-style-type: none"> <li>If <b>FAIL</b> result is produced, touch the (Discharging) test button to display detailed info and pursue error codes (Page 116 in Install Manual)</li> </ul>	



# Home 8 Commissioning Quick Guide

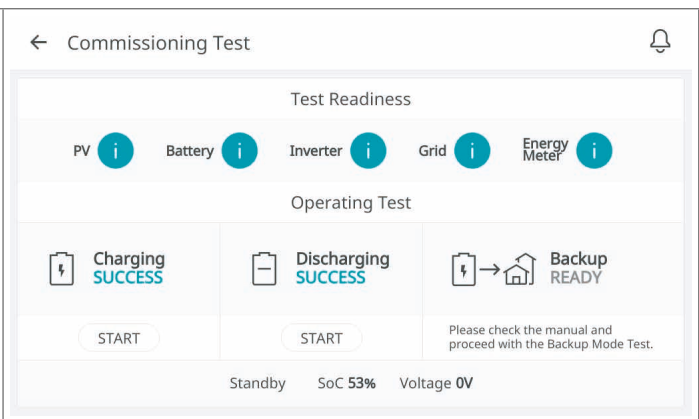
## Commission

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



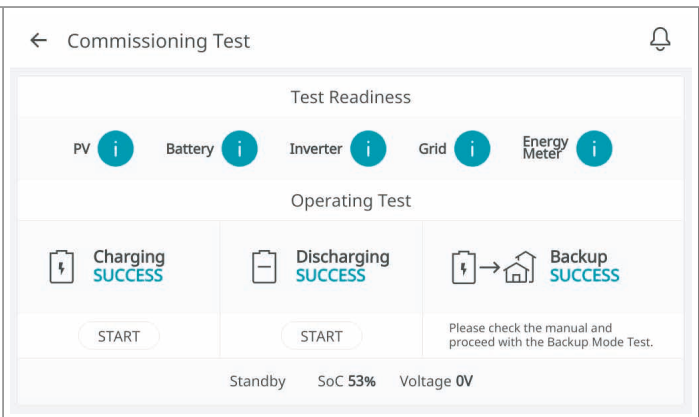
### Backup Test

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



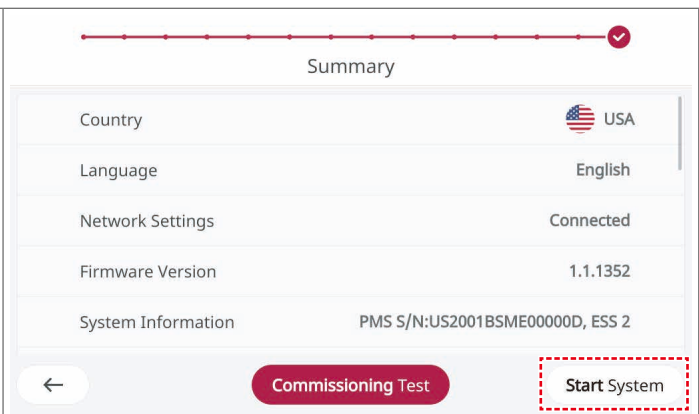
### Return to Grid Power, end Backup Test

- 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 8 Commissioning Quick Guide

## Commission

<ul style="list-style-type: none"> <li>• Home Screen</li> <li>• ① Status will be STOP</li> <li>• ② Touch Menu bars</li> </ul>	
<ul style="list-style-type: none"> <li>• Touch Settings &gt; PCS Settings</li> </ul>	
<ul style="list-style-type: none"> <li>• Touch/Enable Start to Enable System</li> <li>• Touch arrows to return to Home Screen</li> </ul>	
<ul style="list-style-type: none"> <li>• 5-minute waiting period to active Status (Charging, etc)</li> </ul>	

# Home 8 Commissioning Quick Guide

## Commission

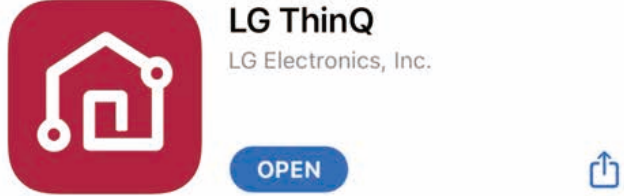
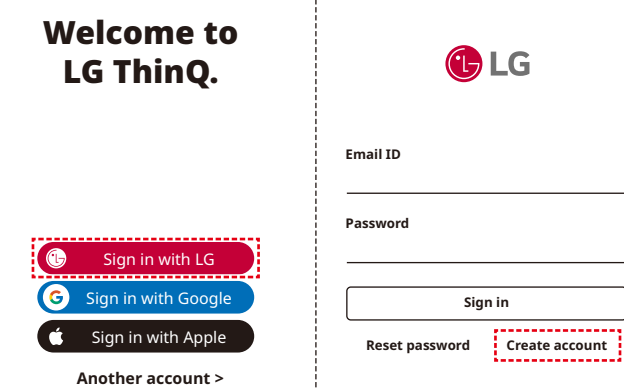
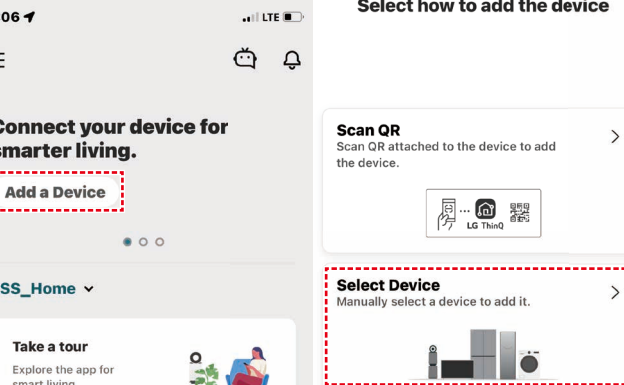
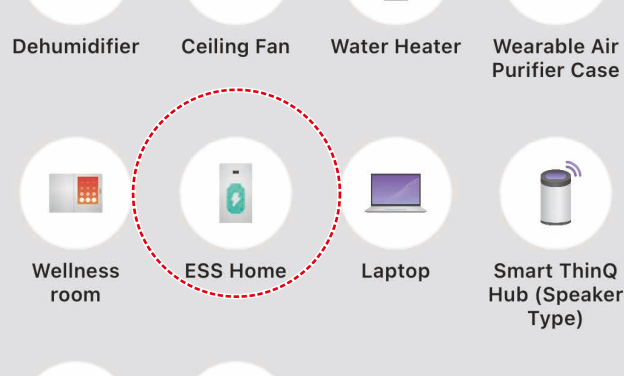
### Enable Internet Connection

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

# Home 8 Commissioning Quick Guide

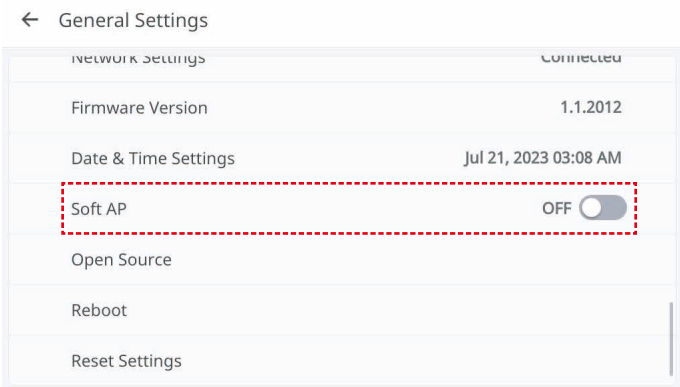

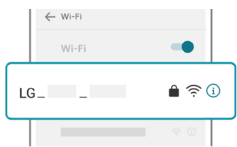
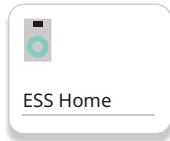
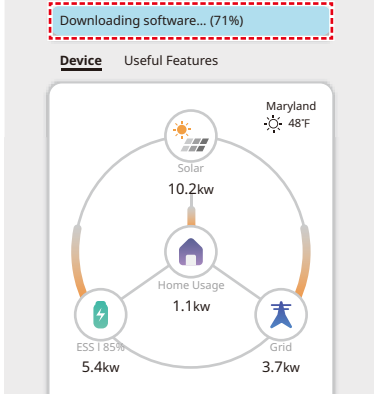
## ThinQ App

### ThinQ App – Register Home 8 ESS

<ul style="list-style-type: none"> <li>• Download LG ThinQ App</li> <li>• iOS or Android App store</li> </ul>	 <p><b>LG ThinQ</b> LG Electronics, Inc.</p> <p>OPEN</p>
<ul style="list-style-type: none"> <li>• Create Account on ThinQ</li> <li>• Suggest “Sign in with LG” Touch Create Account</li> <li>• Use homeowner email address Set password (8 characters min. - upper/lower case, number, special character)</li> </ul>	 <p><b>Welcome to LG ThinQ.</b></p> <p>Sign in with LG Sign in with Google Sign in with Apple</p> <p>Another account &gt;</p> <p>Email ID Password</p> <p>Sign in</p> <p>Reset password Create account</p>
<ul style="list-style-type: none"> <li>• Add a Device</li> <li>• Touch Add a Device Touch Select Device Touch Next</li> </ul>	 <p>4:06</p> <p>Connect your device for smarter living.</p> <p>Add a Device</p> <p>ESS_Home</p> <p>Take a tour</p> <p>Select how to add the device</p> <p>Scan QR Scan QR attached to the device to add the device.</p> <p>Select Device Manually select a device to add it.</p>
<ul style="list-style-type: none"> <li>• Touch ESS Home</li> </ul>	 <p>Dehumidifier Ceiling Fan Water Heater Wearable Air Purifier Case</p> <p>Wellness room ESS Home Laptop Smart ThinQ Hub (Speaker Type)</p>

# Home 8 Commissioning Quick Guide

## ThinQ App

<ul style="list-style-type: none"> <li>• Move to SE Box</li> <li>• On Home Screen, touch Menu bars Touch Settings &gt; General Touch Soft AP to enable wifi Access Point</li> </ul>	
<ul style="list-style-type: none"> <li>• Move back to homeowner smart phone and ThinQ App</li> <li>• Touch Next Follow directions here to connect phone to SE Box Soft wifi Access Point</li> <li>• Go to phone Settings &gt; WiFi Look for SSID LG_Smart_ESS2_XXX network, and take note... <b>Password is XXX entered two times</b></li> <li>• Touch this network to connect Enter Password</li> <li>• Return to LG ThinQ App and wait, watch...</li> </ul>	  <ol style="list-style-type: none"> <li>1. Go to the Wi-Fi settings on your smartphone and locate the network name of your device: LG_Smart_Ess2-</li> <li>2. Select the network name. Enter the password if needed and return to the LG ThinQ app when connected.</li> </ol> <p>Network Name Format: <b>LG_Smart_Ess2_XXXX</b> Password: <b>Enter XXXX twice</b></p> <p>Tap <a href="#">here</a> if the device isn't connected.</p>
<ul style="list-style-type: none"> <li>• ESS Registration Proceeds</li> <li>• Once ThinQ is connected to SE Box Soft AP, ESS registration should proceed automatically.</li> <li>• Edit Nickname for Home 8 ESS if desired</li> </ul>	<p>Device Connected Congrats! Your device has been successfully added.</p> <p>Edit Nickname</p> 
<ul style="list-style-type: none"> <li>• Firmware Update</li> <li>• 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").</li> <li>• If so, simply allow the process to proceed before making any other changes.</li> </ul>	

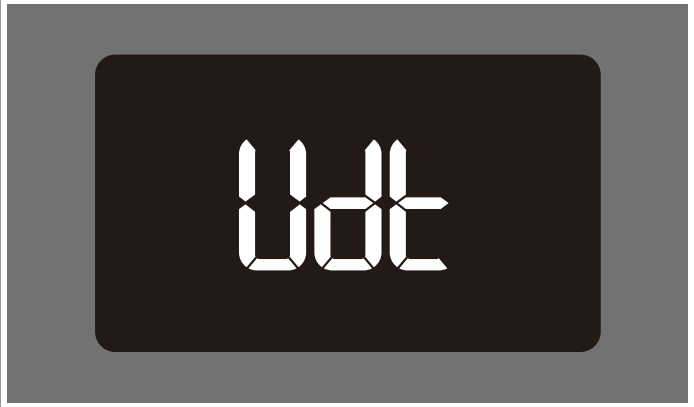
# Home 8 Commissioning Quick Guide

## ThinQ App

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



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



### Specifications

<b>Nominal Voltage (L-N/L-L)</b>	120/240V Split Phase
<b>Grid Frequency (Nominal)</b>	60 Hz
<b>Rated AC Power (Discharging)</b>	7.5 kVA <sup>1)</sup>
<b>Rated AC Power (Charging)</b>	5.4 kVA <sup>1)</sup>
<b>Total Capacity</b>	15.8 kWh
<b>Usable Capacity</b>	14.4 kWh <sup>2)</sup>
<b>Round Trip Efficiency</b>	> 90 % <sup>3) 4)</sup>
<b>CEC Efficiency (PCS only)</b>	98%
<b>Overvoltage Category</b>	Category IV
<b>Interface</b>	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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**Register your product online!**

**<https://www.lg.com/us/ess>**