**Important Safety Information**

**DANGER**

Indicates a hazardous situation that will result in death or serious injury if the instructions are not followed.

- **Do not open the door.**
- **Do not use any serviceable parts inside.**
- **Do not disassemble, reassemble, or attempt to repair, electric shock, or burns.**
- **Do not place any objects on top of the unit.**
- **Do not expose to any liquid.**
- **Do not block any ventilation openings.**

**WARNING**

Indicates a potentially dangerous situation. Death or serious injury may result if the instructions are not followed.

- **A potentially flammable or explosive atmosphere may exist near the unit.**
- **Do not operate while the unit is hot.**
- **Do not use or store any flammable or explosive objects near the unit.**
- **Do not block any ventilation openings.**
- **Do not place the unit in an area where it will be exposed to direct sunlight.**

**CAUTION**

Indicates a situation where damage or injury may occur. It is not avoided, minor injury and/or damage to property may result.

- **Do not place any heavy objects on the unit.**
- **Do not expose the unit to moisture.**
- **Do not set the unit in a location subject to exposure to sub-zero temperatures.**

**INFO**

Indicates a risk of possible damage to the product.

- **Do not use the product if liquids have been spilled on it.**
- **Do not use any damaged, cracked, or frayed electrical cables or connectors.**
- **Do not place the unit near open flames.**

**Facts of Life**

- **Never use any solvents, abrasives, or corrosive materials to clean the unit.**
- **Do not store or place any objects on top of or against the unit.**
- **Do not use water or liquid to clean the unit.**

**MFL71879401**

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## Service Equipment Preparation (If Required)

1. **Terminal Block Panel**
   - FAN
   - PMS + ATS

## Wiring Connection between the SE Box and Home B

1. Connect the conduit to the SE Box.

2. Install a compatible main breaker by screwing the 2 runs.

3. Strip the AC conductors (L1, L2, Neutral, and Ground) on the SE Box non-backup load terminals.

4. Connect the 6-conductor communication wires to the communication terminal block as shown.

5. Connect the non-backup load conductors (L1, L2, Neutral, and Ground) from the non-backup panel to the SE Box non-backup load terminals.

6. Fasten the screws on the right side of the Home 8.

7. Switch the battery circuit breaker on (if equipped).

8. Switch the main circuit breaker for the SE Box to the ON position.

9. Switch the circuit breaker for the PV inverter to the ON position.

10. Switch the main circuit breaker for the SE Box to the ON position and wait until the main screen appears on the HMI display. It will take about 30 seconds.

11. Press the POWER button and press and hold the BLACK START(6s) button for more than 6 seconds until you hear a "lock". If the SoC level is shown on the LED display of the Home 8, the booting process has been completed normally.

12. Press the POWER button and press and hold the Black START button for more than 6 seconds until you hear a "lock".

## Grid and Load Connections

13. **Connect to PV Inverter**
   - Install the circuit breaker for the PV inverter.
   - Press the PV L1 cable from the PV inverter through the 200 A CT.
   - Connect CT harness to CT and terminal block.

14. **Install the circuit breaker for the SE Box**
   - Connect the AC conductors to the corresponding terminals and connect the AC power conductors.

15. **Wire the terminal block**
   - Connect the communication terminal block and the AC power conductors through the contact.

16. **Connect to PV Inverter**
   - Connect the non-backup load conductors (L1, L2, Neutral, and Ground) from the non-backup panel to the SE Box non-backup load terminals.

17. **Strip off the AC power conductors (L1, L2, Neutral, and Ground) on both the Home 8 and SE Box sides as shown in the figure below.

18. **Plug the power terminal block into the communication outlet and connect the drain wire to the lower ground terminals.**

19. **Installer**
   - Connect the 6-conductor communication wires to the communication terminal block as shown.

20. **Connect the conduit to the SE Box.**

## Wiring Diagram

- **Home B**
- **Smart Energy Box**

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**Wiring Diagram**

- **Conduit**
- **CT**
- **FLAT HEAD SCREWDRI**
- **Screw**
- **SWITCH**
- **PLUG**
- **CONNECT**
- **Communication**
- **Torque**
- **Terminal**
- **Flathead* screwdriver**
- **2 – 2/0 AWG – 6 – 4 AWG – 13 mm (0.5 inch) – 18 mm (0.7 inch) – 50 mm (2 inches) – Drain wire, 80 mm (3.2 inches) – Insulation tape as shown in the figure.**

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**EnerVu Settings (Installer Only)**

- To use the EnerVu web monitoring system, the ESS system must be registered through the LG NonO® application first.

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**Torque Values**

- **L1 (Black)**
- **L2 (Red)**
- **G (Green)**
- **N (White)**

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**Connect the non-backup load conductors (L1, L2, Neutral, and Ground) from the non-backup panel to the SE Box non-backup load terminals.**

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**Grid Check**

- **1. CAN HI**
- **2. CAN LOW**
- **3. 12V**

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**Field Wiring Diagram**

- **Sensor**
- **Pre-Charge Relay+**
- **Main Relay +**
- **Reactor**
- **BAT -**
- **BAT +**
- **Communication**
- **USB Ethernet Display**
- **PCS**
- **Display**
- **PMS**
- **Info**

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**To use the LG EnerVu website at https://na.enervu.lg-ess.com.**

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**Usage Information**

- **Battery**
- **Load Panel**
- **Main Relay**
- **Communication**
- **Display**
- **PMS**
- **Info**

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**Service Equipment Preparation**

- **Service Equipment Preparation**
- **If Required**
- **Home B**
- **Smart Energy Box**

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**Installation Completion**

- **Insert the communication wires into the 6-position connectors.**

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**Warning**

- **Before starting the wiring, make sure the circuit breaker of the Home 8 is OFF.**
- **If the circuit breaker is ON, death or serious injury may occur due to electric shock.**

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**In a browser, visit the LG EnerVu website at https://na.enervu.lg-ess.com.**

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**Flathead screwdriver**

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**EnerVu Settings**

- **Installer Only**

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**Flathead screwdriver**

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**EnerVu Settings**

- **Installer Only**

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