



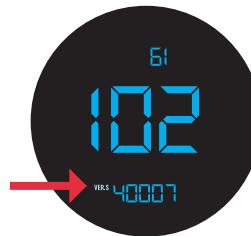
This is a reference guide only. Always follow the safety guidelines in the latest installation manual and comply with all local AHJ standards and requirements. **Only Certified HomeGrid Installers may install HomeGrid products.** Scan the QR code above for installation videos, complete manuals, and training sign-ups.

1. Prerequisites

- New modules must match existing type- do not mix standard and heated modules within the same stack.
- Each stack can have a maximum of 8 Stack'd Series battery modules in total.
- If the system has multiple stacks in parallel, they must have the same number of battery modules in each stack (e.g. two 4-stacks, etc).
- Ensure the firmware is up-to-date:

For Generation 3 BMS Controller (Built-in Coaxial Port):

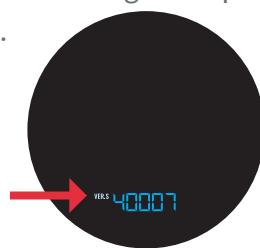
- Open the right-side panel on the BMS and temporarily set the 'INV SET' DIP switches to
 -  (ON | OFF | ON | ON | ON | ON)
- Check the firmware versions (VER S.) on the BMS display as the system cycles through the following screens:
 - BMS Board (100): 02009
 - Display Board (101): 01098
 - BMS Main Control Board (102): 04007
 - Battery Modules:
 - Gen 3: 03044
 - Gen 2: 02056
 - Note: Anything older than the versions listed needs to be updated
- Once confirmed, reset the 'INV SET' DIP switches to their original position. No power cycling required.



(Example: BMS Main Control Board)

Generation 2 BMS Controller (No Wi-Fi Antenna Port- External Skybox)

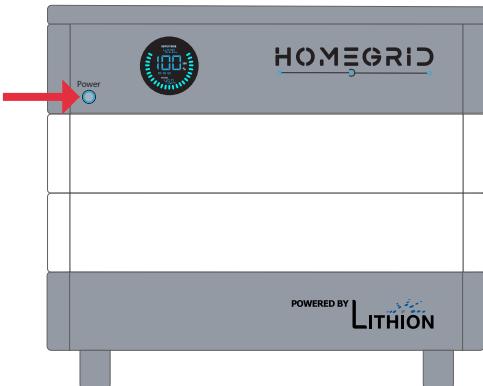
- Power-cycle the BMS and observe firmware versions during startup. The system will display four version screens; the 4th screen is the controller firmware.
- Verify controller firmware version.
 - Latest version: 40007



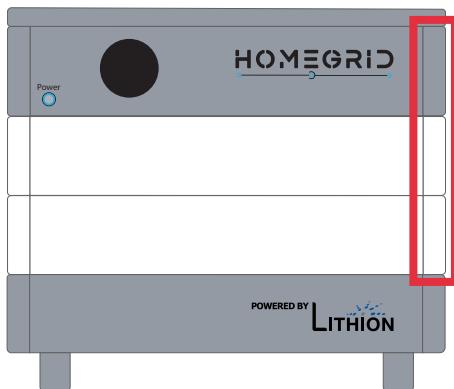
Do not proceed if firmware is outdated. All modules in a stack must run matching firmware—mixing versions can cause communication issues. If you're unsure, contact HomeGrid Support before continuing.

2. Shut Down the Existing System

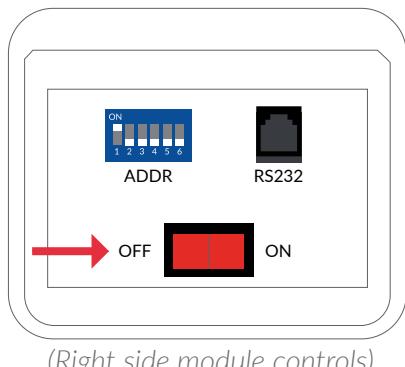
- Isolate the battery from the inverter to prevent the flow of power
 - Example: turn off the battery breaker on the inverter.
- Power off the BMS using the front power button.



- Remove right-side panels from the BMS and all battery modules.



- Power off the battery modules from top to bottom. Flip the red power switch under the plastic cover to the OFF position on each module.



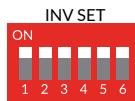
- Confirm no voltage at the BMS terminals using a multimeter.

3. Add the Modules

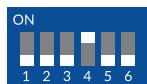
- Remove the BMS from the top of the stack. If the electrical wire is too short, disconnect it temporarily.
- Remove protective dust covers from the top and bottom ports of each new module.
- Lift and place new module(s) onto the stack. Two people recommended (each module weighs ~108 lbs)
- Remove right-side panels from the new module(s) to access the DIP switches and power switch.

4. Set the DIP Switches

- Once all modules are stacked, reinstall the BMS on top.
- Enter Module Detection Mode: set the BMS INV SET switches to (ON | ON | ON | ON | ON | ON)

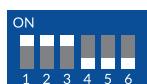


- Set module DIP switches from bottom to top as follows:



Module 8

(OFF | OFF | OFF | ON | OFF | OFF)



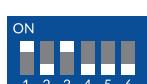
Module 7

(ON | ON | ON | OFF | OFF | OFF)



Module 6

(OFF | ON | ON | OFF | OFF | OFF)



Module 5

(ON | OFF | ON | OFF | OFF | OFF)



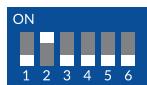
Module 4

(OFF | OFF | ON | OFF | OFF | OFF)



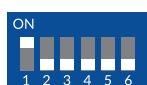
Module 3

(ON | ON | OFF | OFF | OFF | OFF)



Module 2

(OFF | ON | OFF | OFF | OFF | OFF)

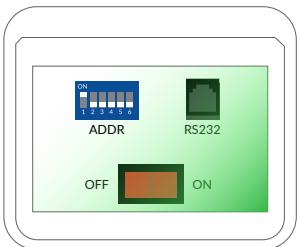


Module 1

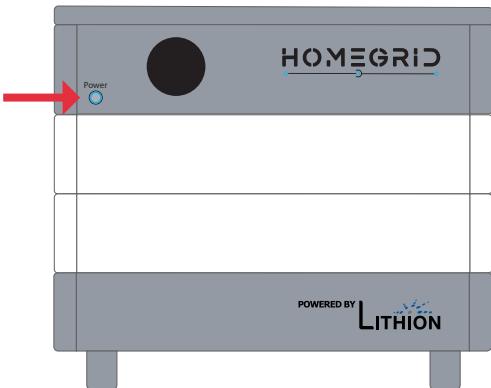
(ON | OFF | OFF | OFF | OFF | OFF)

5. Power On and Run Detection Mode

- Power on modules from bottom to top. Each module should show a green internal LED.
 - Flashing LEDs can be normal.
 - If no light appears, or it turns off after a few seconds, contact HomeGrid Support.
 - Modules will not power on unless stacked with another module or the BMS above them.



- Power on the BMS using the front power button.



- Confirm Module Detection Mode. The BMS will display code 63 at the top, with the detected module count in the center.
 - Allow at least 90 seconds for detection. Once the correct number appears, wait 30 additional seconds to ensure proper recalibration.



6. Reset DIP Switches and Confirm Operation

- Return INV SET switches to the correct inverter mode based on the inverter model used:



Sol-Ark

(ON | OFF | ON | ON | OFF | OFF)



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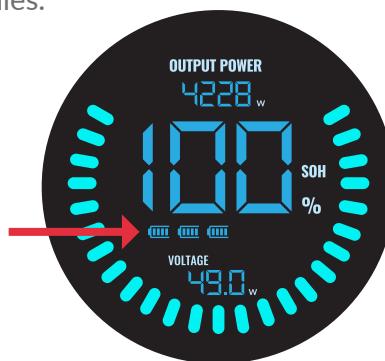
(OFF | OFF | ON | OFF | OFF | OFF)



Megarevo

(OFF | ON | ON | OFF | OFF | OFF)

- Verify normal display mode and confirm the number of battery icons matches the installed modules.



- It is normal for one or more battery icons on the BMS display to flash.
 - If no errors or alarms are present, a flashing battery icon indicates a voltage imbalance, which is expected when a new module is introduced into an existing stack.
 - During charging, the BMS will actively work to balance the new module with the existing modules in the system.
- Before leaving the site, the installer should confirm that:
 - The system is charging normally.
 - No error or alarm codes are present.
 - Battery icons transition from flashing to steady once balancing progresses.

Contact HomeGrid Support with any questions.

support@lithionbattery.com

USA: 1 (855) 753 - 3505 (6AM-4PM PST)

EU/UK: 0117 456 5000 (9AM-5PM UK)