

SAVANT

Savant® Power Storage Firmware v1.5.3 Update USB Instructions

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This document describes the procedure for updating firmware in a Savant Power Storage System using the Firmware v1.5.3 Update USB drive provided by Savant. These instructions apply to systems with a standard grid-connected input. A grid connection is required because the inverter must be powered during the update process in order to successfully complete the BCMS firmware upgrade. For off-grid systems that do not have a whole-home generator connected through an Automatic Transfer Switch (ATS) upstream of the Grid Combiner Panel, contact Savant Support for guidance before attempting a firmware update on off-grid installations.

Before You Begin

Determine Firmware Update Method

There are two methods to update firmware using the 1.5.3 USB drive. Review the options below before beginning.

Firmware Update with Loads Off (Recommended)

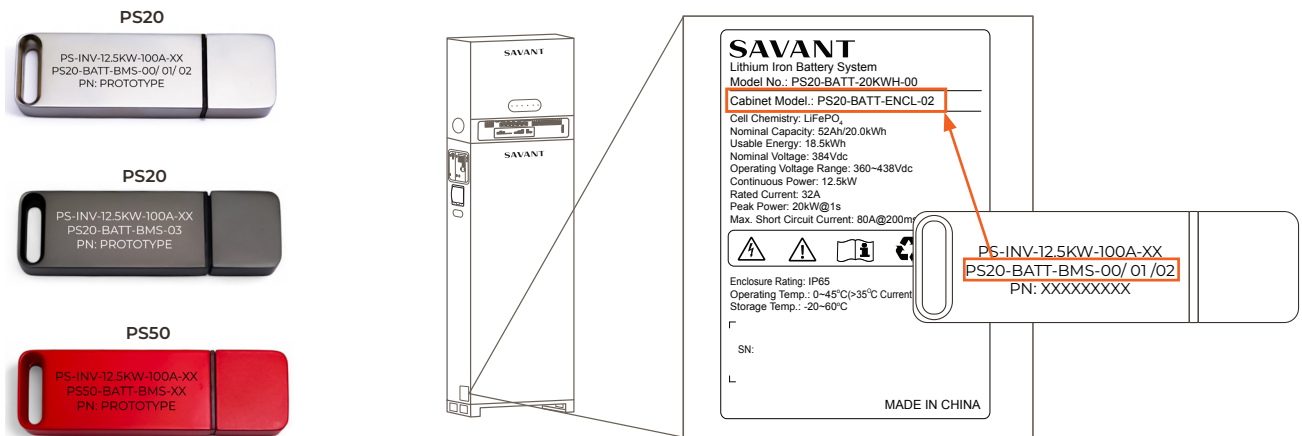
Savant recommends updating the system firmware with loads off to avoid overloading any inverters in parallel. This method is faster as all inverters in parallel can be updated at the same time. Output power from each inverter should be turned off for the duration of the update. For updating firmware with loads off, use steps described in the [Firmware Update with Loads Off](#) section. This process should take a total of 15 minutes from start to finish.

Firmware Update with Loads On

For Power Storage Systems with more than one (1) inverter where loads cannot be turned off (systems with a single inverter can not use this process), updating the firmware with loads on may be done one inverter at a time. This process takes the load capacity of the remaining inverters into consideration as the entire load of the home must not exceed 60% of the peak value. For updating firmware with loads on, use steps described in the [Firmware Update with Loads On](#) section. This process should take about 30 minutes per inverter.

Important Notes

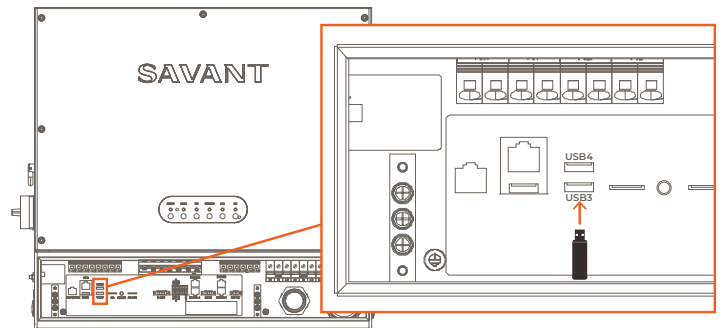
1. Inverter load ports will be turned off during the update process. If the connected loads must remain on during the update refer to the [Firmware Update with Loads On](#) section.
2. The firmware update requires stable power on the grid port. If completing off grid - ensure auxiliary power is on the GRID Port. If stable grid power is not available contact support.
3. Performing a firmware update causes the inverter and any connected inverters to temporarily disconnect DC battery and DC solar until all updates are complete and the system returns online.
4. Verify that the correct USB drive is used for the firmware update by referencing the BMS version on the Savant Power System (located on the cabinet side or on top of the BMS module).



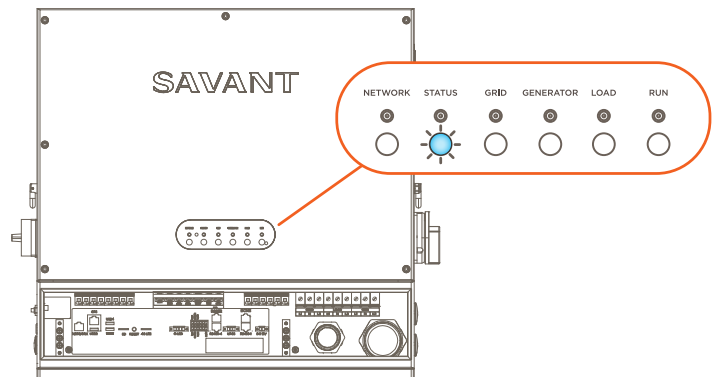
Firmware Update Process with Loads Off (Recommended)

1. Ensure all inverter loads are disconnected during the update by opening the load output breakers in the combiner panel. If a bypass transfer switch is installed, it may be used instead.

2. Remove the wiring cabinet cover from the inverter and insert the correct USB into an available USB port.



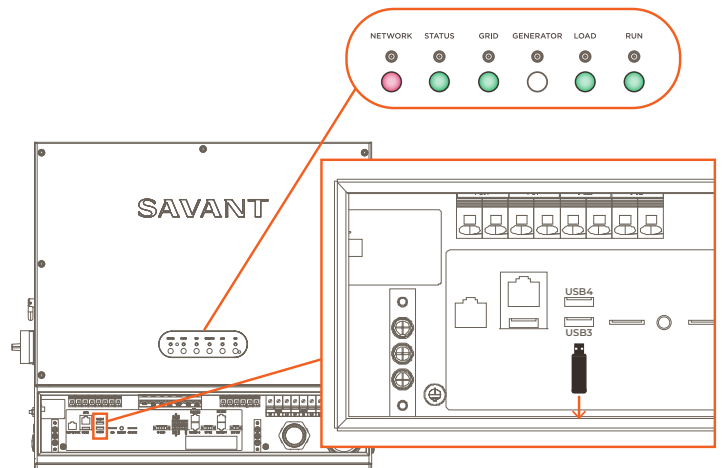
3. Wait for status LED to blink blue five (5) times. (Within 30 seconds)



4. Remove the USB drive from the inverter. If updating multiple inverters, the USB drive may be inserted into the next inverter to start its update.

The inverter will continue to update, which takes about 15 minutes. See the [Appendix: Firmware Update LED Sequence](#) for LED behavior during the update.

⚠ IMPORTANT! Do not remove grid power during this process. The inverter will disconnect the load port twice.



5. Repeat steps 2-4 for each inverter in the system.

6. After all inverters have been updated, the Grid, Load, and Run LEDs will be solid green. The Network LED may be green or red depending on the status of the home's networking equipment.

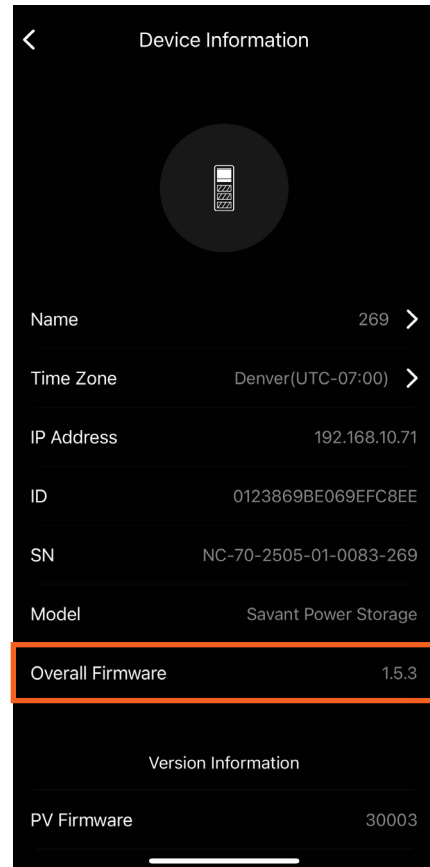
7. Turn on all load output breakers in the combiner panel for all inverters in the system once all status LEDs return to green.

8. After the inverters have reconnected to the internet open the Savant Power Storage (SPS) app and verify firmware version has updated successfully.

Navigate to **Settings > System Information > Device Information**. If Overall Firmware version states *1.5.3*, update has been completed.

If the Overall Firmware version is not correct, reset the inverter by pressing and holding the reset button for 5 seconds and wait 2.5 minutes. Return to step 1 and attempt the procedure again. If the firmware version update continues to fail, contact Savant Support.

NOTE: Resetting the inverter will cause internal Wi-Fi settings to be lost. If the system is configured to use the internal Wi-Fi, use the SPS app to reconfigure the network credentials.



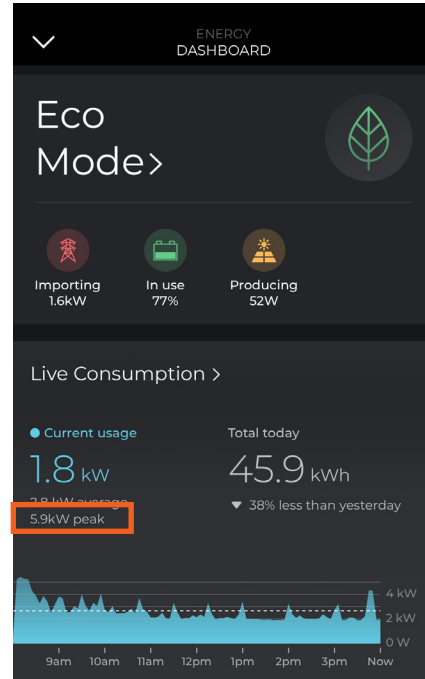
Firmware Update Process with Loads On

Updating a system where loads stay on, updates must be completed one inverter at a time using the provided USB drive. During this process, the entire load of the home must not exceed the capacity of all other remaining inverters not currently being updated. To determine if the entire home load does not exceed capacity, ensure the Peak value in the Savant app is less than 60% of the capacity of the remaining inverters. This provides head room for circuits with a high turn on value.

1. Ensure the **Peak** value in the Savant app is less than 60% of the capacity of the inverters not currently being updated. (To find the **Peak** value, navigate to the Live Consumption widget in the Savant app.)

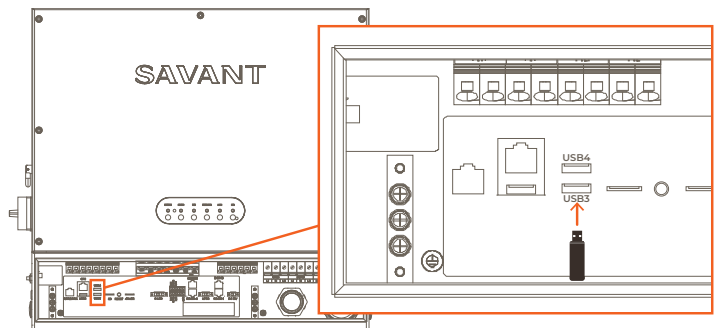
NOTE: 60% of the on-grid capacity (24kW) is 14.5kW x N - 1. With N = total number of inverters in the system.

If the **Peak** value is greater than the capacity provided by the remaining inverters, Savant recommends shutting the breakers off for some high current load to keep the home in a safe state.



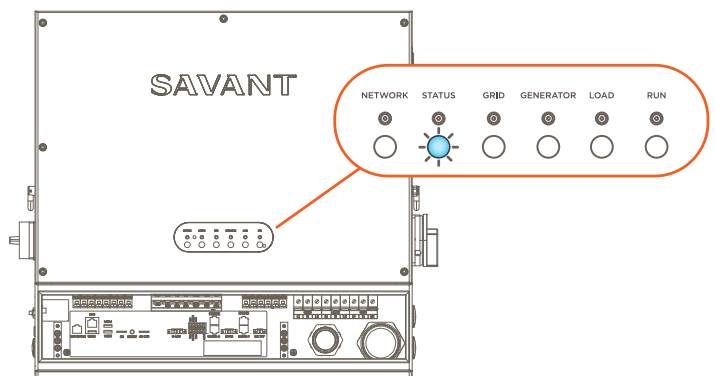
IMPORTANT!
Complete steps 2-4 for **ONE** inverter at a time, starting with the Leader inverter.

2. Starting with the Leader inverter, remove the wiring cabinet cover from one inverter and insert the USB into an available USB port.



3. Wait for status LED to blink blue five (5) times. (Within 30 seconds)

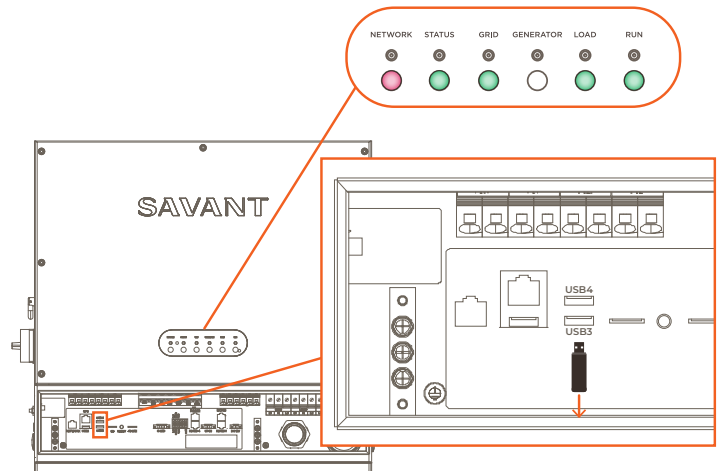
NOTE: Non-updating inverters will display solid red run lights as not all parallel units are communicating at that time. Audible relay clicks may be heard on the non updating inverters as they enter grid passthrough mode. This is an expected behavior.



- Remove the USB drive from the inverter.

The inverter will continue to update, which takes about 15 minutes. See the [Appendix: Firmware Update LED Sequence](#) for LED behavior during the update.

⚠ IMPORTANT! Do not remove grid power during this process.



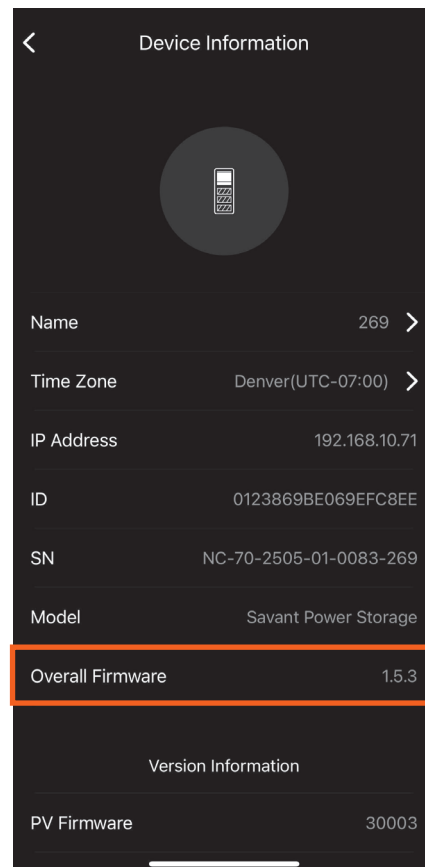
- The inverter has finished the firmware update when the Status, Grid, Load, and Run LEDs on are solid green for more than 30 seconds.
- Repeat steps 2-5 for each inverter, completing **only one (1) inverter at a time**.

- After the inverters have reconnected to the internet open the Savant Power Storage (SPS) app and verify firmware version has updated successfully.

Navigate to **Settings > System Information > Device Information**. If Overall Firmware version states 1.5.3, update has been completed.

If the Overall Firmware version is not correct, reset the inverter by pressing the reset button again and wait 2.5 minutes, then try the procedure again. If the firmware version fails to update, contact Savant Support.

NOTE: Resetting the inverter will cause internal Wi-Fi settings to be lost. If the system is configured to use the internal Wi-Fi, use the SPS app to reconfigure the network credentials.



Appendix: Firmware Update LED Sequence

The LED sequence shown below occurs during the 15-minute firmware update period. Note that some of the LED sequences happen quickly and may not be observed.

Update is complete when the Status, Grid and Load LEDs are solid green for a minimum of 30 consecutive seconds (the Network LED will be red while the home network equipment is reconnecting. It will be solid green once connection to cloud services is restored.)

If the USB drive remains inserted after the firmware update completes, the update process will restart. No update progress is indicated until the end of the subsequent update cycle. Ensure to remove the USB drive once the blue blinking status LED is observed.

