

Savant® Power Storage Passthrough Procedure

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This document guides the installer through the Passthrough Procedure for a Savant Power Storage system. The **Savant Power Storage Passthrough Procedure** applies to the following system types:

- New installations, functioning Inverters, and faulted installations
- Single Unit/Parallel Units
- Whole Home Backup/Partial Home Backup
- On Grid
- DC Coupled Solar
- AC Coupled Solar (Landed on GEN Port)
- Generator (Landed on GEN Port)



IMPORTANT NOTES:

- Entering passthrough mode while powering loads can cause damage to inverters.
- Passthrough mode does not bypass overcurrent protection, and will not resolve issues with crossed L1/L2 wiring.
- The 12V Battery Cluster Management System (BCMS) trigger remains live while in passthrough mode. This can result in slow battery drain to levels too low for recharge with extended time in passthrough or low battery module charge at outset.
- Savant inverters support dark start. Disabling DC solar while system is in passthrough mode ensures that the BCMS is not triggered on.
- In passthrough mode, the inverter will not trigger a generator start. Generators must be started and stopped manually while in this mode.
- In passthrough mode, the inverter will not engage any connected AC solar.
- Careful attention must be paid to all sections or steps within this document marked with the **STOP ●** icon.
Failure to understand and follow these guidelines may result in severe damage to the system, voiding equipment warranty.

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!! READ BEFORE CONTINUING !!

FAILURE TO FOLLOW INSTRUCTIONS MAY LEAD TO PERMANENT HARDWARE DAMAGE. READ COMPLETELY AND THOROUGHLY BEFORE ATTEMPTING ANY PROCEDURE.

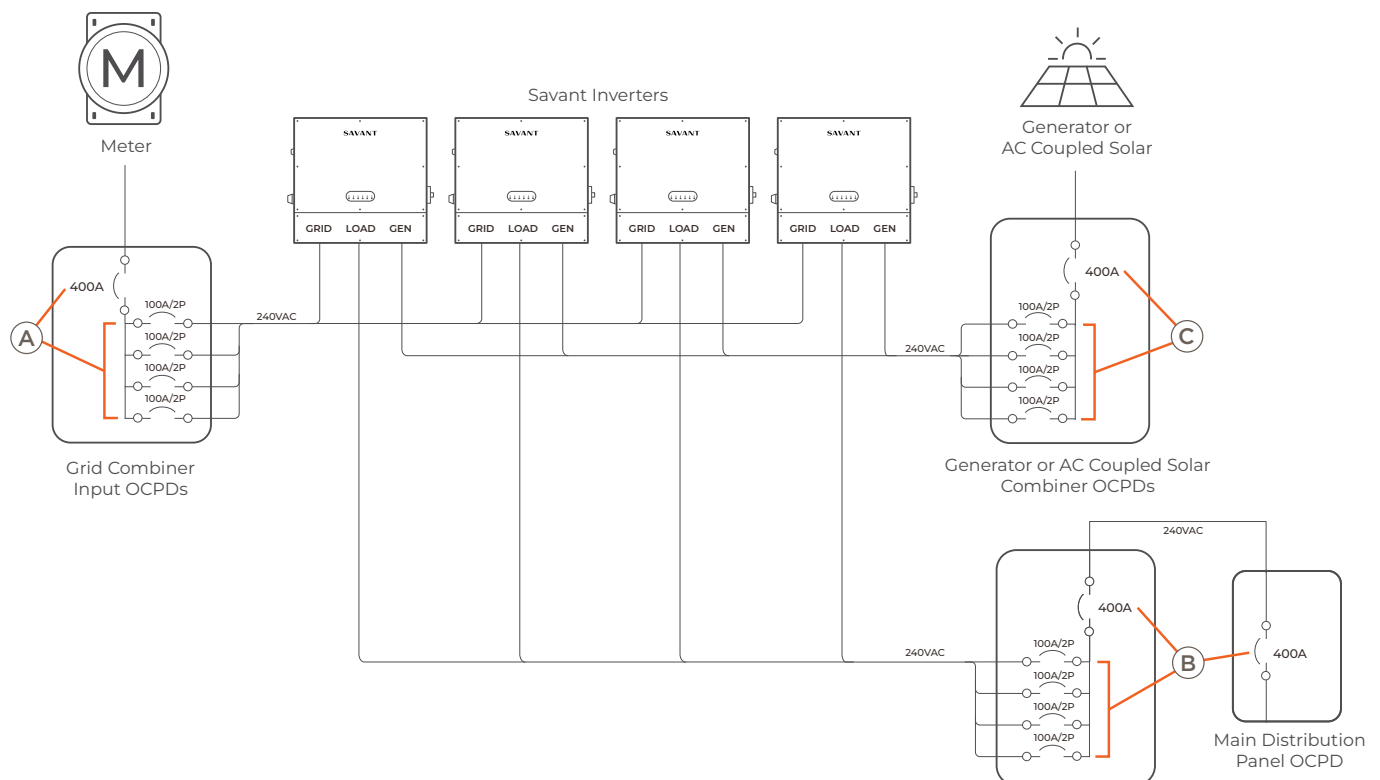
All instructions in this guide apply to both PS20 and PS50 systems unless otherwise noted. Some instructions may vary depending on system.

SHUT DOWN ALL HOME LOADS BEFORE STARTING PROCEDURE

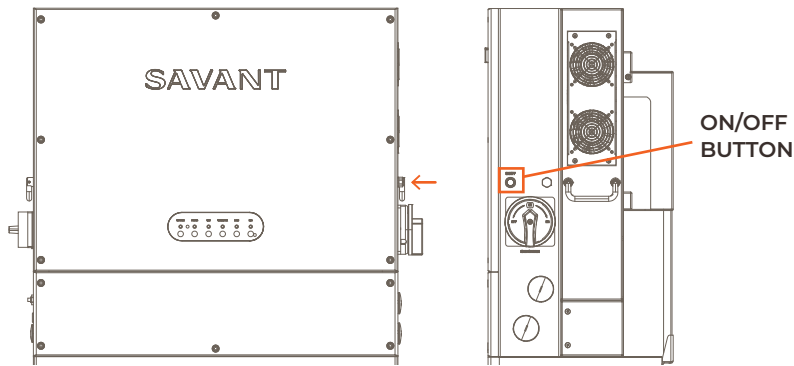
Passthrough Procedure for New Installations (Not Commissioned)

- STOP: Verify correct L1, L2, and N wiring across all units. Crossing these wires will damage the Inverter and void the warranty.**
- Open all electrical disconnects and over current protection devices (OCPDs).** See the checklist below. Opening these OCPDs will isolate the Inverters from the grid and each other. The diagram below shows an example of open OCPDs in a parallel system with four Savant Inverters.

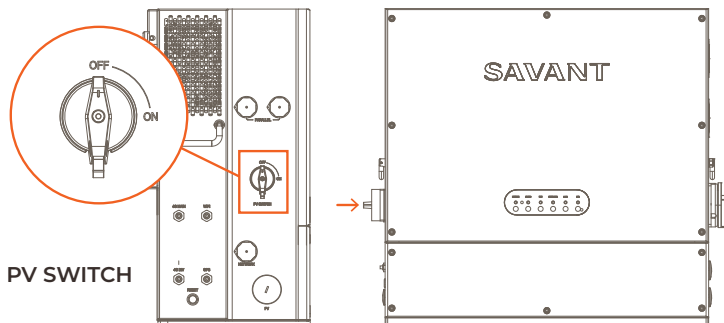
- ☐ (A) GRID Port OCPDs
- ☐ (B) LOAD Port Combiner Panel OCPDs
- ☐ (C) Generator/AC Coupled Solar (GEN) Port Combiner OCPDs



3. Ensure all Inverter silver ON/OFF buttons are off (not depressed).



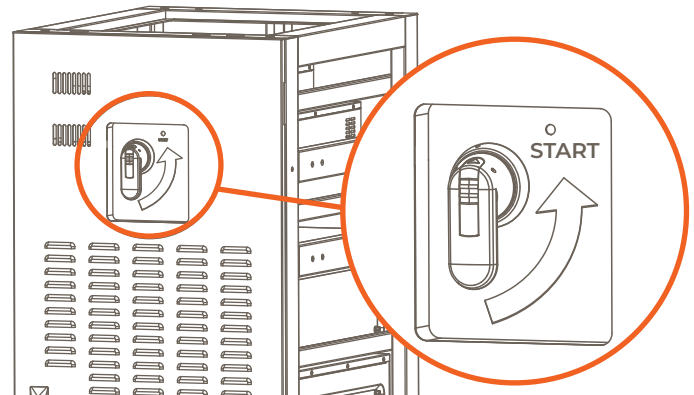
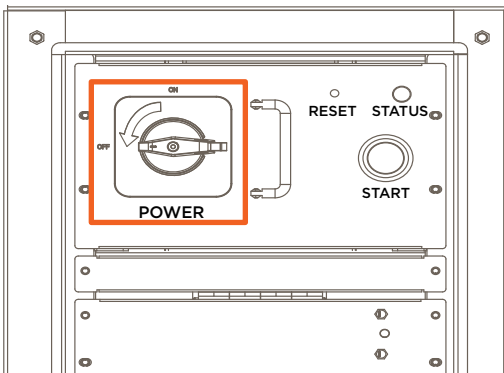
4. Ensure all DC PV switches are in the OFF position.



5. Switch Battery Cluster Management System (BCMS) to the OFF position.

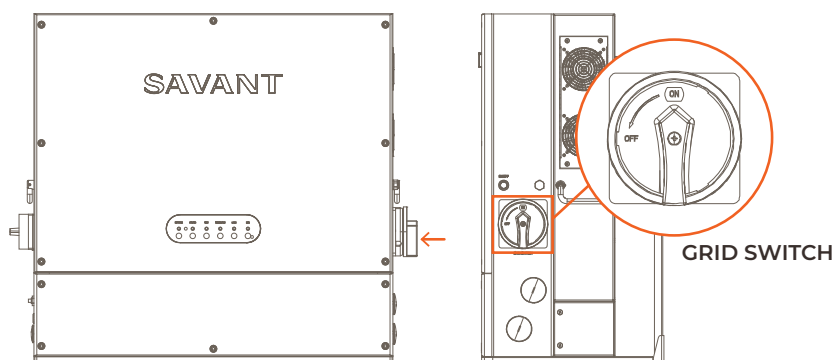
PS20: Switch BCMS Power Switch to the OFF position.

PS50: Switch BCMS Power Switch to the OFF position.

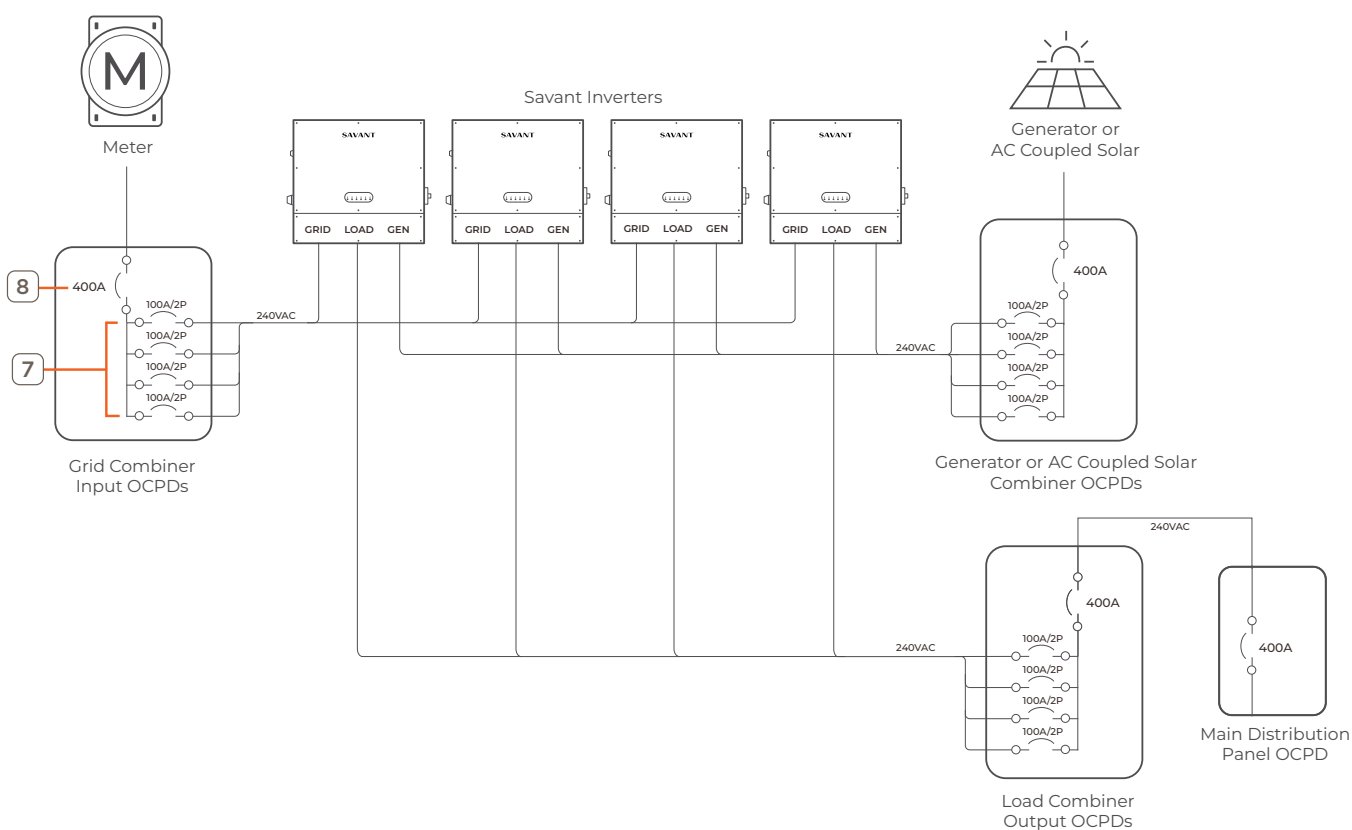


6. **STOP:** Remove the 12V connection from the Inverter to BCMS, or unseat the BCMS by pulling out slightly to disconnect. This prevents the BCMS from draining batteries below recoverable levels when in passthrough mode for an extended time, or when battery state of charge is low at outset.

- On each Inverter, turn the red grid switch to the ON position.



- Close each grid OCPD feeding power to Inverters in the upstream Grid Combiner Panel. See diagram below.
- Close the upstream Grid Combiner Panel Main OCPD.



- Verify the Grid status LED turns solid green, this indicates grid is detected and within specifications.

NOTE: A Blinking Grid status LED indicates the grid is out of specification. Please see [Savant Power Storage 20 Installation Guide](#) or [Savant Power Storage 50 Installation Guide](#) before proceeding.

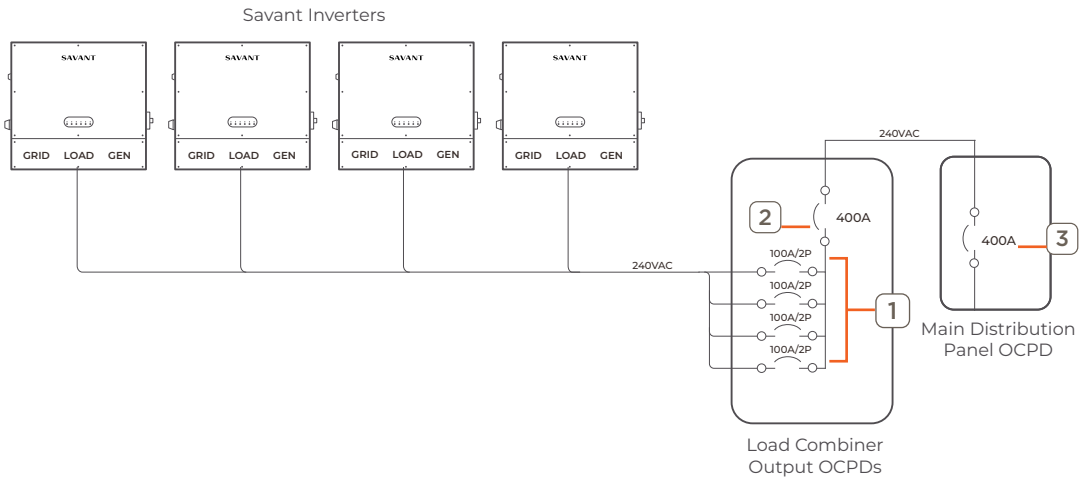
11. Verify the Load status LED turns solid green, indicating the Inverters are in Grid Passthrough Mode.

⚠ IMPORTANT: DO NOT DEPRESS the ON/OFF button on the Inverters. These remain OFF in Grid Passthrough Mode.

12. Close loads OCPDs.

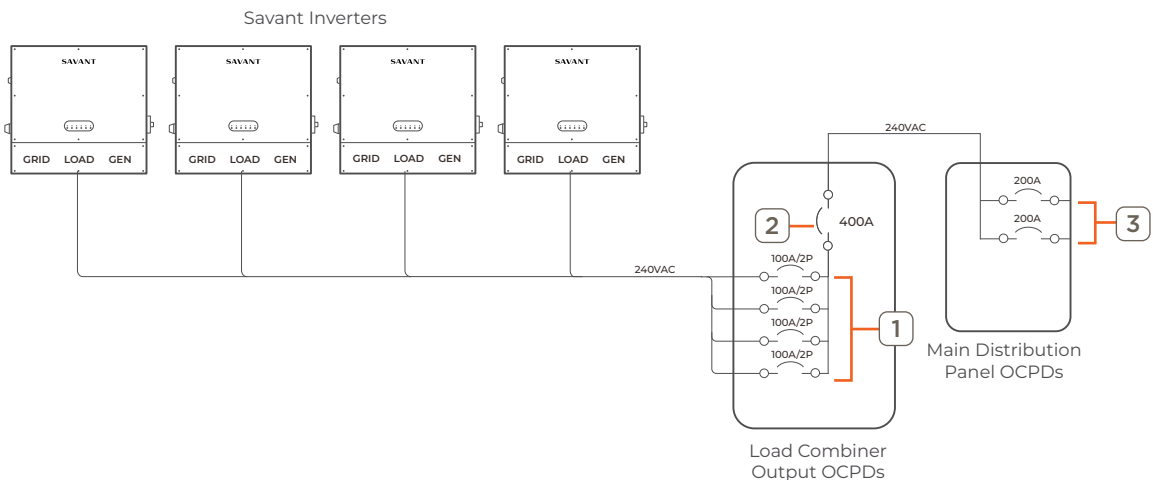
- For sites with a single load disconnect point: (i.e. all downstream loads can be turned off at a single point.)
 1. Close the associated load OCPD for each Inverter in the Load Combiner Panel.
 2. Close the main disconnect OCPD for the Load Combiner Panel.
 3. Close main OCPD in the downstream Main Distribution Panel.

⚠ WARNING: Closing load side OCPD out of order may cause excess current (greater than 100A) to be drawn through a single Inverter causing permanent damage and voiding the warranty.



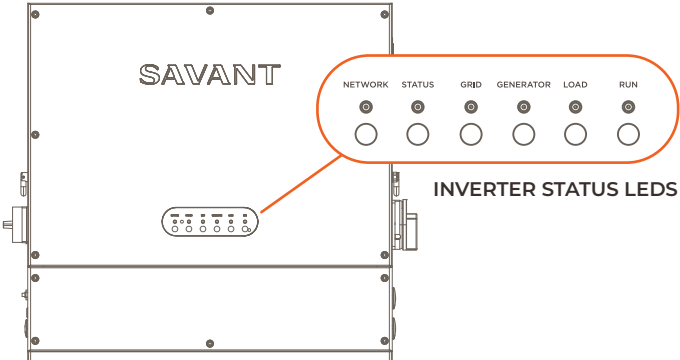
- For sites with no single load disconnect point (i.e. parallel Inverters with multiple load disconnects):
 1. Close the associated load OCPD for each Inverter in the Load Combiner Panel.
 2. Close the main disconnect OCPD for the Load Combiner Panel.
 3. Close each main disconnect OCPD in the downstream Main Distribution Panel.

⚠ WARNING: Closing load side OCPD out of order may cause excess current (greater than 100A) to be drawn through a single Inverter causing permanent damage and voiding the warranty.



13. Verify Passthrough Mode is enabled by confirming the Inverter status LEDs match the table below:

Network		Solid green or red if not configured.
Status		Solid red
Grid		Solid green
Generator		OFF NOTE: If AC solar is configured, Generator LED will be on. It is not recommended to operate AC solar in passthrough mode.
Load		Solid green
Run		Solid red



14.

**STOP:** Ensure that the conditions below remain in place until the system is ready to operate without Passthrough mode:

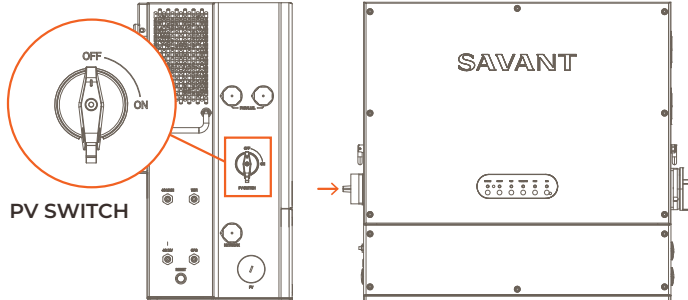
- Inverter power switches remain OFF. DC Solar is not available in this mode.
- Inverter 12V DC connection remains disconnected or BCMS pulled out from tray to disconnect.
- (Recommended) AC coupled solar remains OFF.

15. Reference the [Shutting Down Power System in Passthrough Mode](#) section, then the [Savant Power Storage Inverter Startup Procedure](#) for repowering the system when ready to disable Passthrough mode.

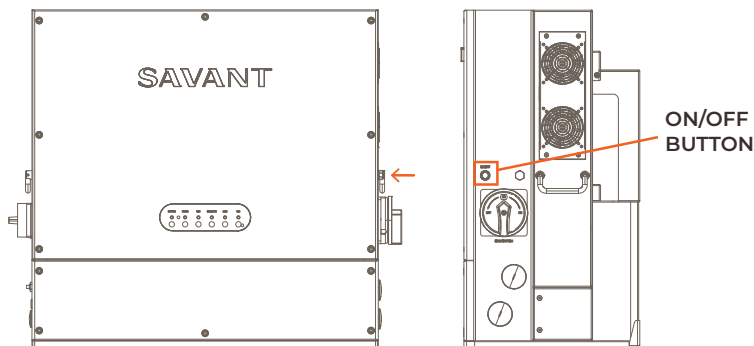
Passthrough Procedure for Functioning or Faulted Systems (Commissioned)

Follow the steps below to enable Passthrough for commissioned Inverters. Some Inverter faults will prevent Passthrough Mode. If Passthrough Mode is not possible, contact Savant Support for guidance.

1. (If Applicable) Turn off AC Coupled Solar.
2. On each Inverter, turn DC PV switches to the OFF position.



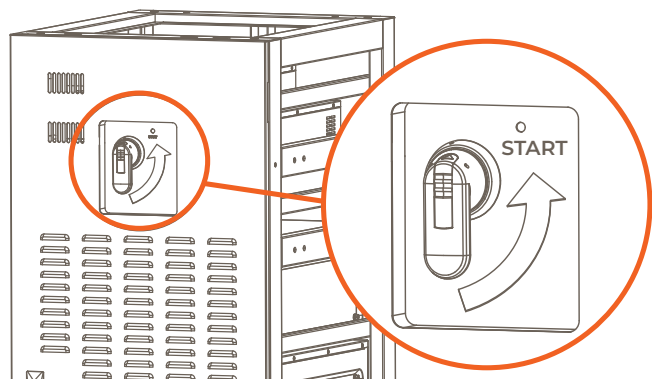
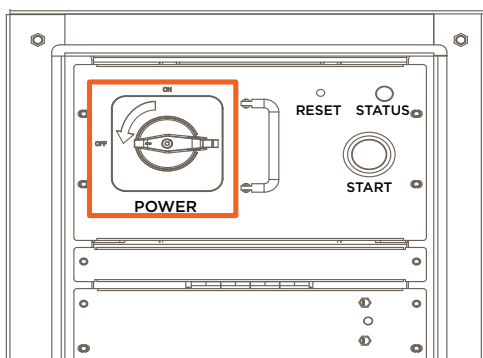
3. On each Inverter ensure all silver ON/OFF buttons are OFF. (Not depressed)



4. Turn BCMS Power Switch to the OFF position.

PS20: Switch BCMS Power Switch to the OFF position.

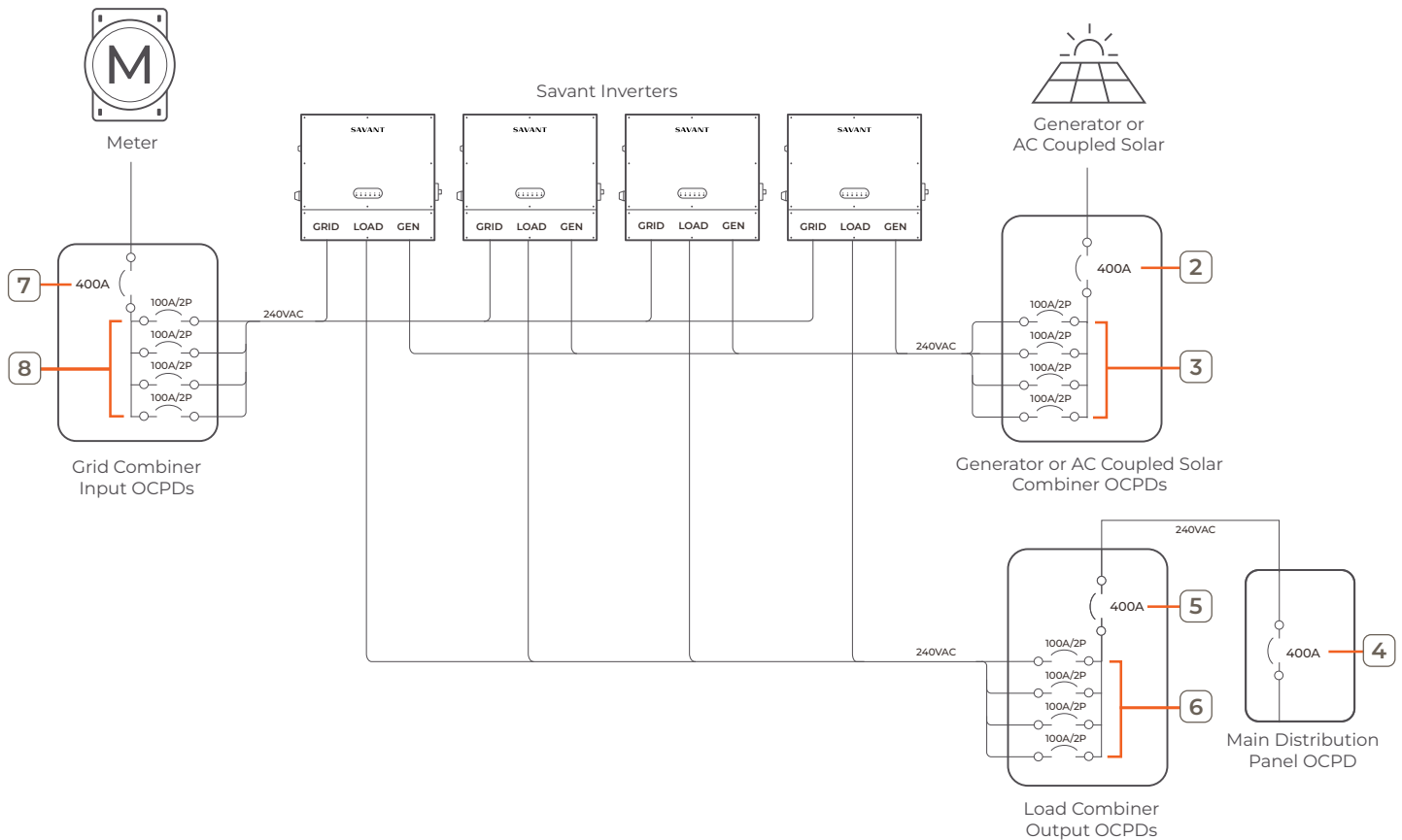
PS50: Switch BCMS Power Switch to the OFF position.



5. **STOP:** Remove the 12V connection from the Inverter to BCMS, or slide the BCMS out of position to disconnect. Ensure that the conditions below remain in place until the system is ready to operate without Passthrough mode:
 - Inverter power switches remain OFF. DC Solar is not available in this mode.
 - Inverter 12V DC connection remains disconnected or BCMS pulled out from tray to disconnect.
 - (Recommended) AC coupled solar remains OFF.

Shutting Down Power System in Passthrough Mode

1. (If Applicable) Verify DC solar is OFF.
2. Open the main disconnect OCPD between Savant Inverter and AC coupled solar Inverters/generator.
3. Open all Generator/AC Coupled Solar (GEN) Port Combiner OCPDs.
4. Open main OCPD in the downstream Main Distribution Panel. (If present)
5. Open the main disconnect OCPD for the Load Combiner Panel.
6. Open the associated load OCPD for each Inverter in the Load Combiner Panel.
7. Open the upstream Grid Combiner Panel Main OCPD.
8. Open each grid OCPD feeding Inverters in the upstream Grid Combiner Panel.



9. Continue with the [Savant Power Storage Inverter Startup Procedure](#) to bring system back online.

