


SAVANT 009-2402-01 Power Storage App



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Document Date: June 2025

- This document guides the installer through the process of commissioning a Savant Power Storage System using the Savant Power Storage (SPS) app.
- This document supports the Savant Power Storage (SPS) app version 3.0.5 and higher and Savant Power Storage inverters running firmware version 1.4.8 and higher.

 **IMPORTANT:** As part of initial system deployment, installers must [contact Savant Support](#) for assistance with Power Storage Inverter firmware upgrade.

Contents [[hide](#)]

- [1 App Setup](#)
- [2 Network Configuration](#)
- [3 Associated Devices Overview](#)
- [4 System Information](#)
- [5 Parallel & Shared Battery](#)
- [6 Battery Operation](#)
- [7 Power Sources](#)
- [8 Interconnection Settings](#)
- [9 Customer Support](#)
- [10 Documents / Resources](#)
 - [10.1 References](#)

App Setup

Download App

The Savant Power Storage inverter app can be downloaded directly from the Apple App Store or Google Play Store. Search for Savant Power Storage or scan the QR Codes to the right.

Savant Power Storage App (Apple App Store)



Savant Power Storage App (Google Play Store)



Create Account



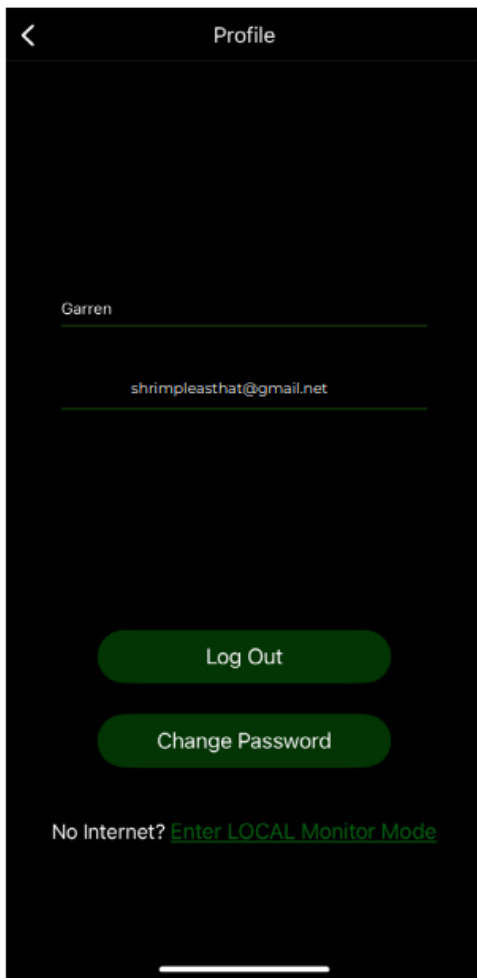
IMPORTANT: This guide assumes the first person to begin deployment and access the Savant Power Storage Inverter using the Savant Power Storage app is the installer. Upon downloading the app, new users will need to create an account. By default, users are given limited permissions within the app. Contact Savant Support to obtain installer level privileges, which enable full configuration capabilities when deploying a system.

NOTES:

- Additional accounts created may not have sufficient permissions to be able to access all settings listed in this guide.
- A maximum of 5 accounts can be associated to a Savant Power Storage system.




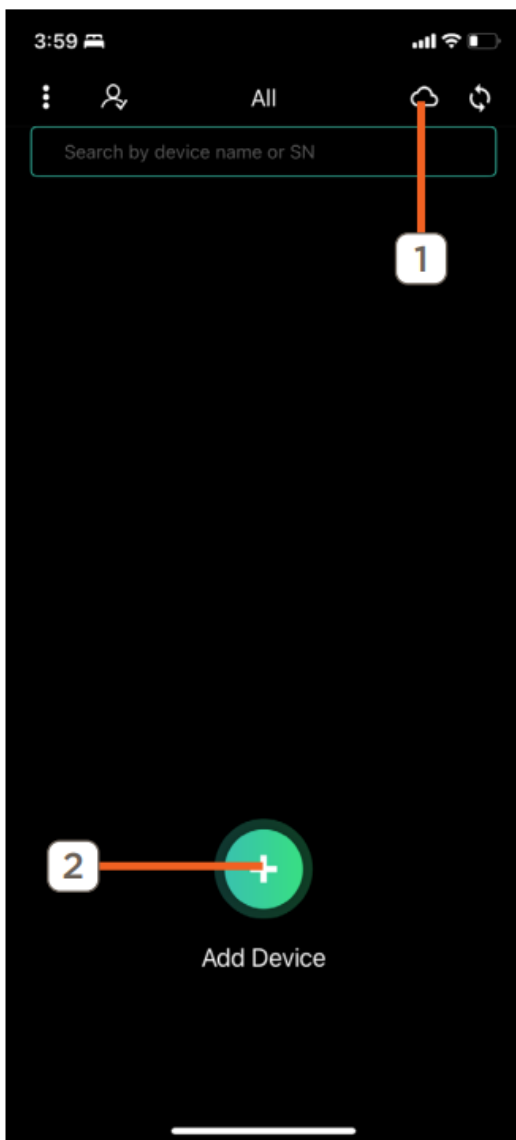
HELPFUL TIP: Savant recommends configuring the installer app account before traveling to site to avoid downtime while waiting for account privileges to be granted.



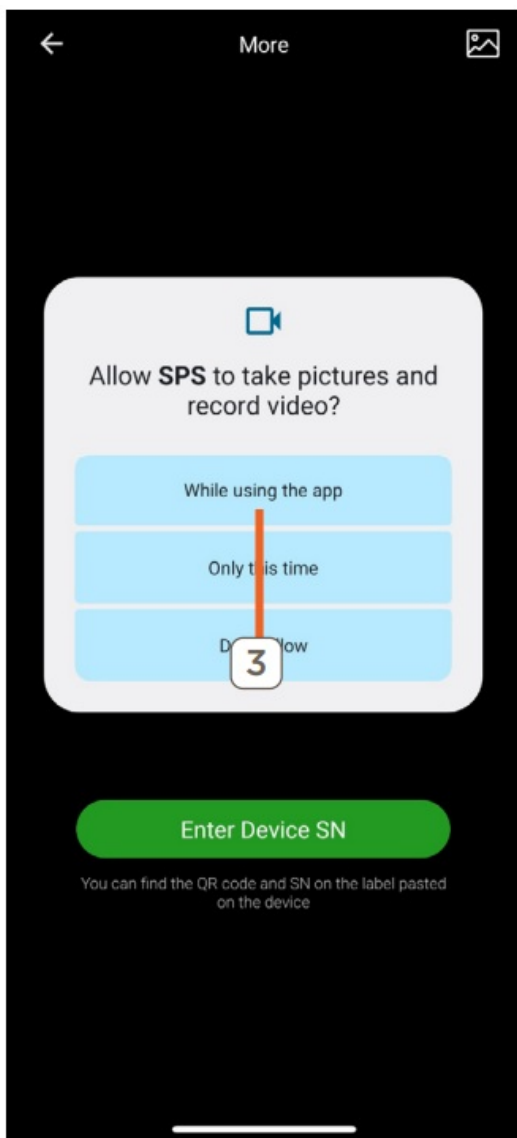
Add Device

Each Savant Power Storage inverter must be added as a device within the Savant Power Storage inverter app.

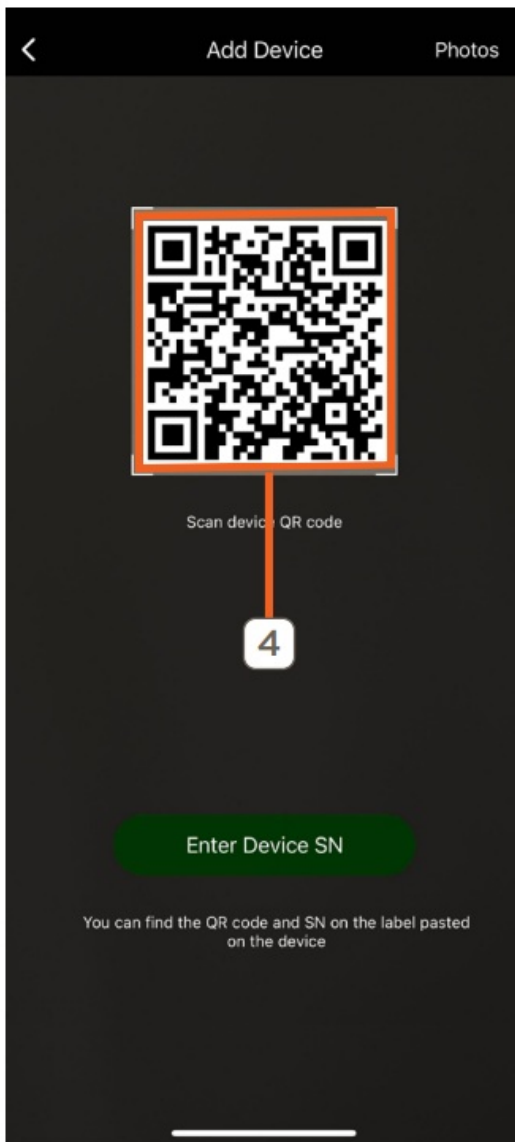
1. **WIFI ONLY:** Toggle The Cloud icon to Local Area Network .
2. Select Add Device.



3. Allow the SPS app camera permissions.



4. Scan serial number QR Code on the side of the Power Storage Inverter.



OR

Enter Device Serial Number (S/N) located on the right side and select Submit.



Network Configuration

The Savant Power Storage System requires a connection from the inverter to a local area network with access to the internet to receive Over-The-Air (OTA) updates.

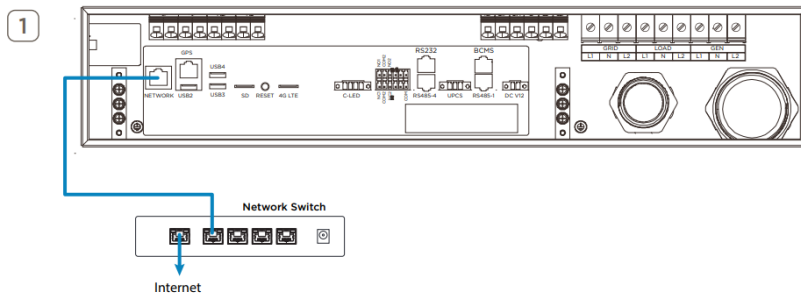
1. Start the Savant Power Storage System according to the system boot sequence in the installation manual.
2. Wait until the network indicator on the inverter turns green.
3. Follow the Wired section below or the Wireless section on the next page to configure the relevant network connection type.

Wired (Recommended)

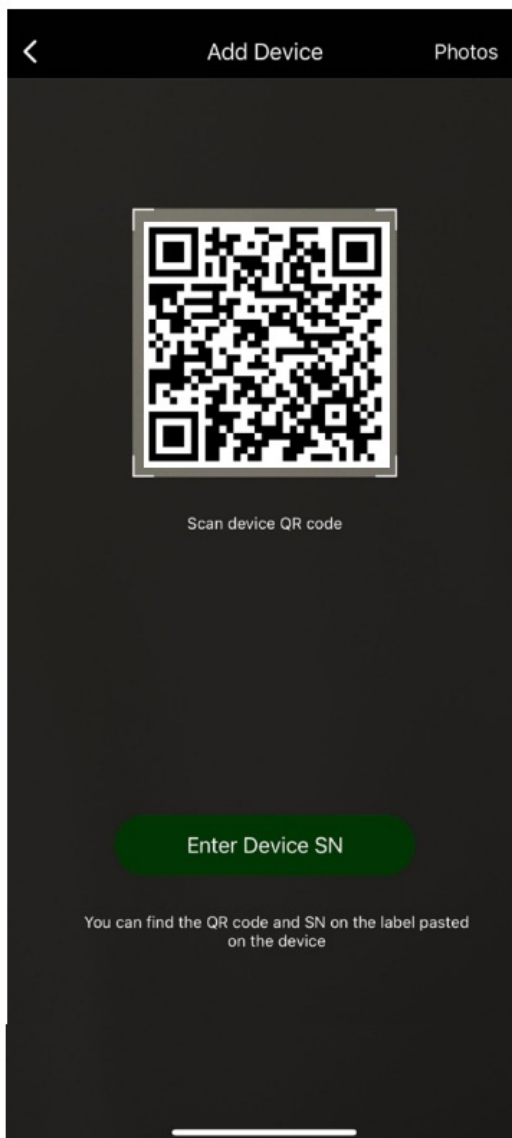
1. Connect a LAN port of the router to the network port of the Savant Power Storage inverter using an ethernet cable.

2. Scan the QR Code on the right side of the Savant Power Storage inverter.
3. Select Wired/Other.

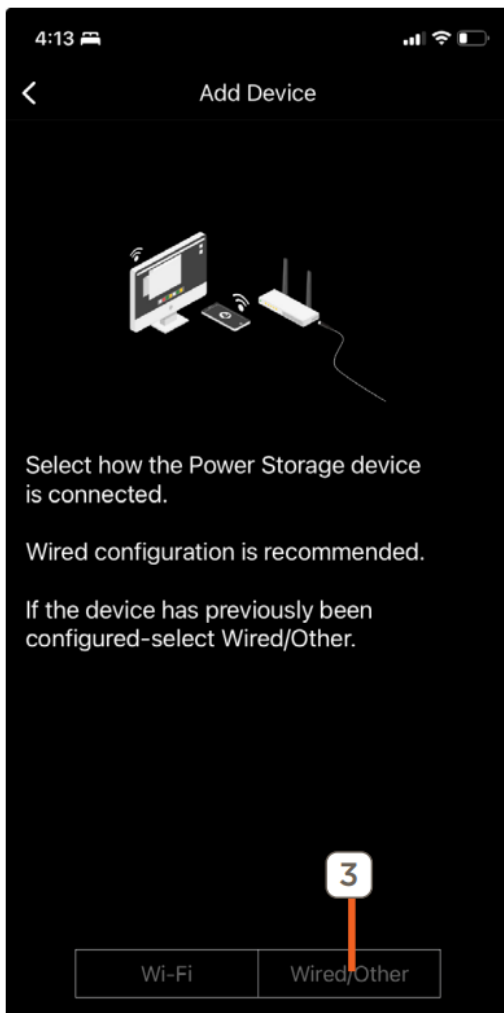
Savant Power Storage Inverter



1. Scan the QR Code on the left of the Savant Power Storage unit.



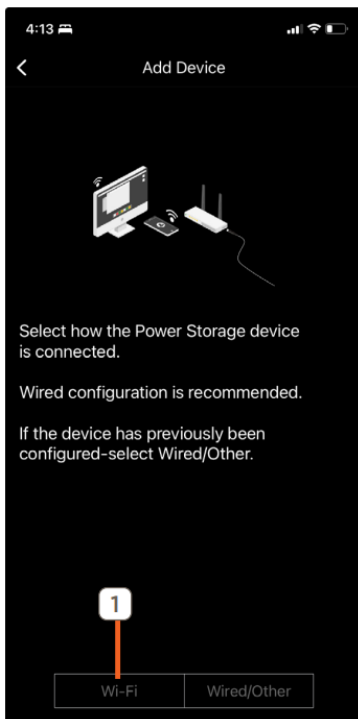
2. Select Wired/Other.



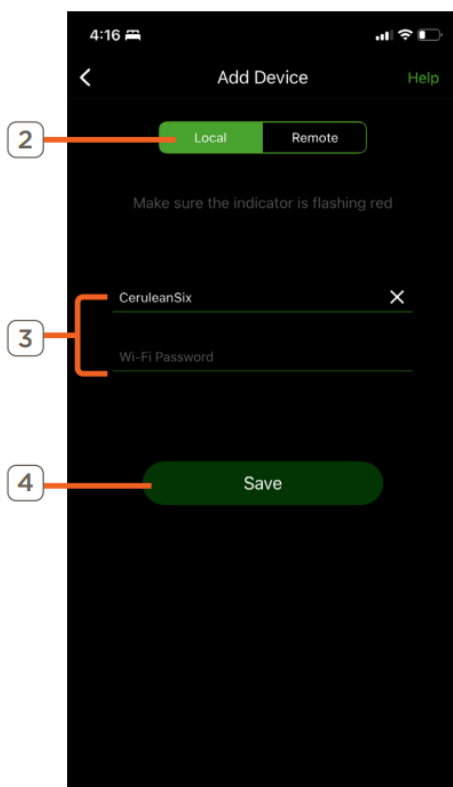
Wireless (Not Recommended)

Press the RESET button on the left side of the system for 5 seconds until indicator flashes red to reset the system before beginning wireless configuration.

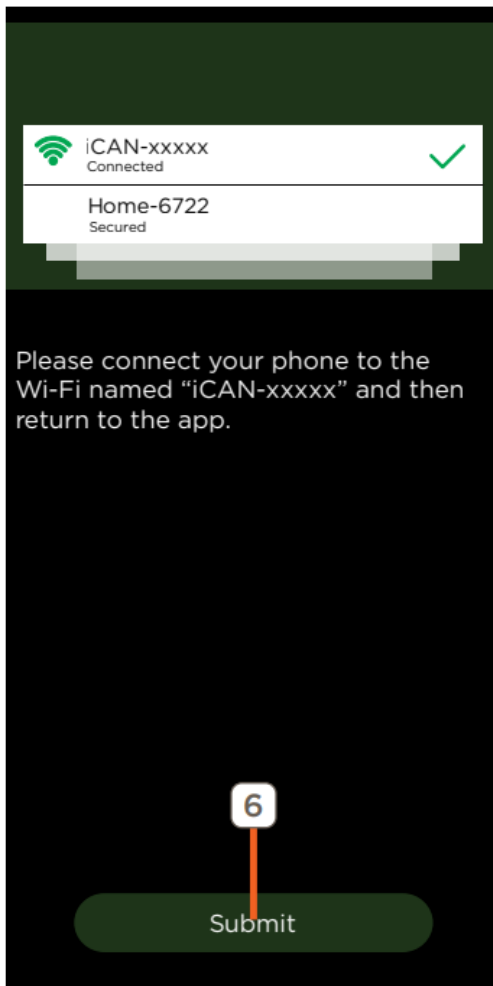
1. Select Wi-Fi



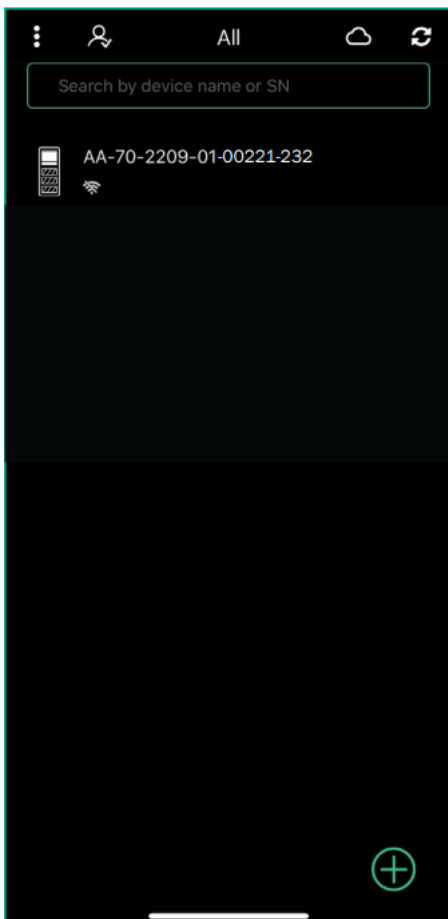
2. Toggle Local for Local Areal Network credentials or Remote for Remote Access network credentials
3. Enter network credentials
4. Select Save



5. Minimize the Savant Power Storage app
6. Connect the mobile device's Wi-Fi to the network titled ICAN-xxxxx
7. Reopen the SPS app and select Submit





8. The inverter serial number appears on the Associated Devices screen

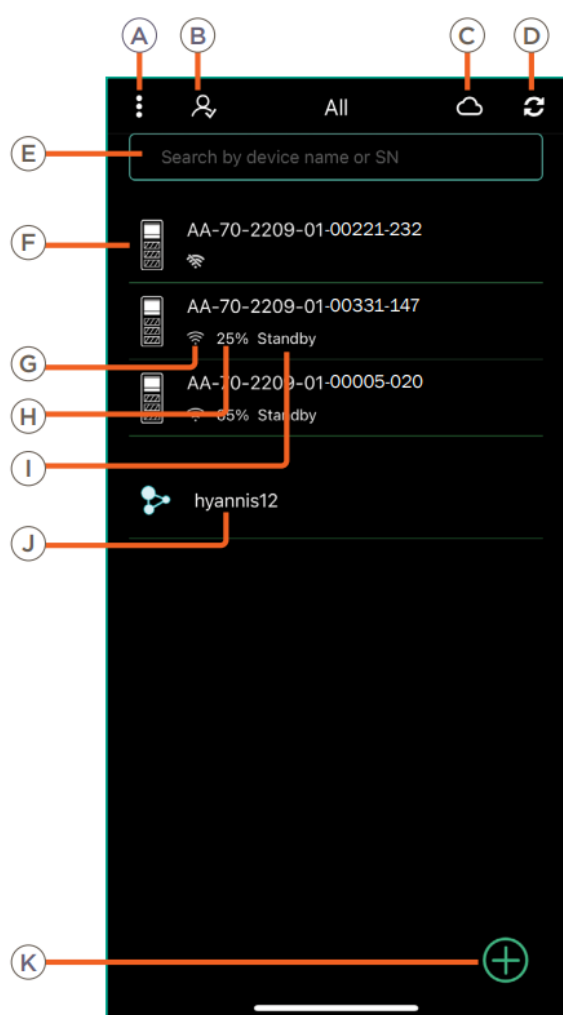


Associated Devices Overview

Associated Devices displays all Savant Power Storage systems, sorted by inverter, the account has access to. The table below describes the information displayed on this screen.

Setting	Description
More	<p>Access more information about the Savant Power Storage inverter app, including:</p> <ul style="list-style-type: none">• Messages• Create Groups• Feedback• Account Deletion• About
Profiles	<ul style="list-style-type: none">• Log Out• Change Password
Connection Mode	<p>Toggle between connection modes:</p> <ul style="list-style-type: none">• : Internet Access Mode: Both the Power Storage and the iOS or Android device must have an internet connection• : Local Area Network Mode: Both the Power Storage and the iOS or Android device are on the same local area network
Refresh	Re-discover inverters
Search Bar	Search through inverters by name or serial number
Device ID	Inverter Serial Number



Connection	Inverter connection status
Battery SOC	Battery State of Charge (SOC)
Battery Status	Charging, discharging, or standby
Group	Custom grouping of systems
Add Device	Add a Savant Power Storage inverter

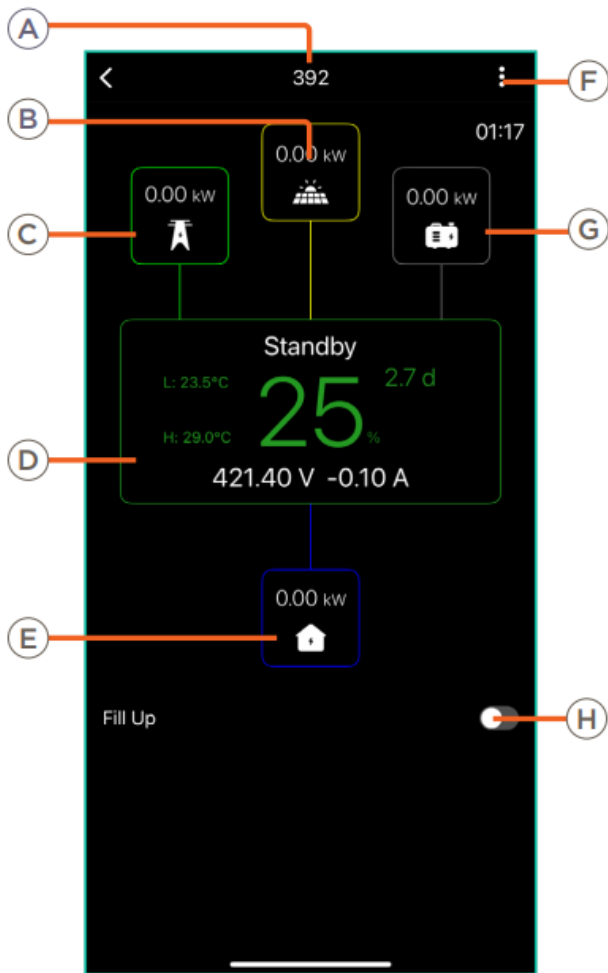


Power Overview

The Power Overview screen displays real time power import and export statistics sorted by source.

⚠ IMPORTANT: All information and settings listed here are relevant to the individual inverter.

Setting	Description
Device Name	Name of the inverter
Solar Production (DC)	Realtime solar production
Grid Consumption	Total energy consumption of all loads from the grid in kW
Current Battery State	Charging or Discharging – Whether the battery is currently charging or discharging
	State of Charge – Remaining battery capacity in percentage
	Time – Approximate time left until battery reaches 0% SOC Note: this may change depending on load conditions
	V & A – Battery voltage and amperage
Load Consumption	Total energy consumption for all loads in kW
Settings	Savant Power Storage Inverter Settings  HELPFUL!: All further configuration is done with in this menu
Generator Input	Realtime generator power production in kW
Fill Up	Enable to manually force the Savant Power Storage inverter to charge the batteries to 100%  IMPORTANT: Review the site utilities interconnection agreement before enabling. Charging the battery using grid power may be prohibited



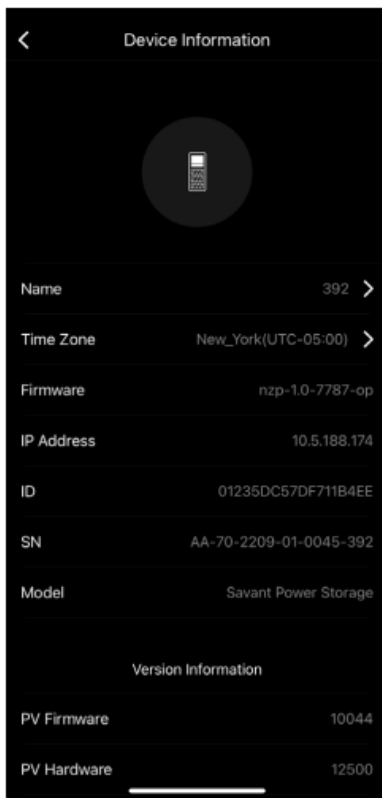
System Information

Device Information

To access Device Information, navigate to Settings > System Information > Device Information. Device Information contains important information such as the following:

- Device Name
- Time zone
- Serial number
- IP Address
- Battery Cycles

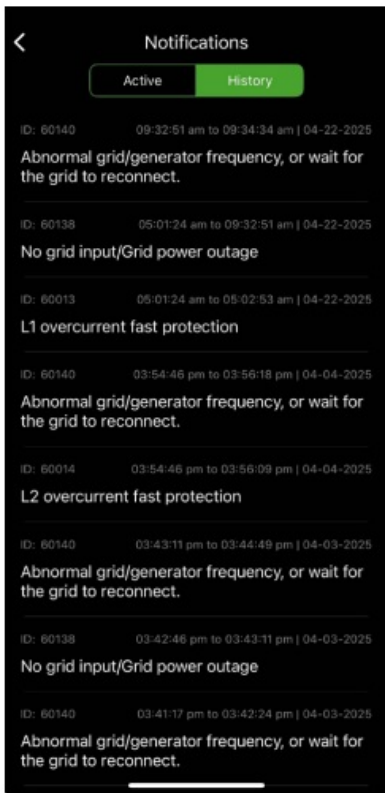
⚠ IMPORTANT: Device Name and Time Zone must both be set before continuing.



Notifications


The Savant Power Storage app monitors the system status and reports changes in behaviors as Notifications. Notifications are divided into Active and History sub menus.

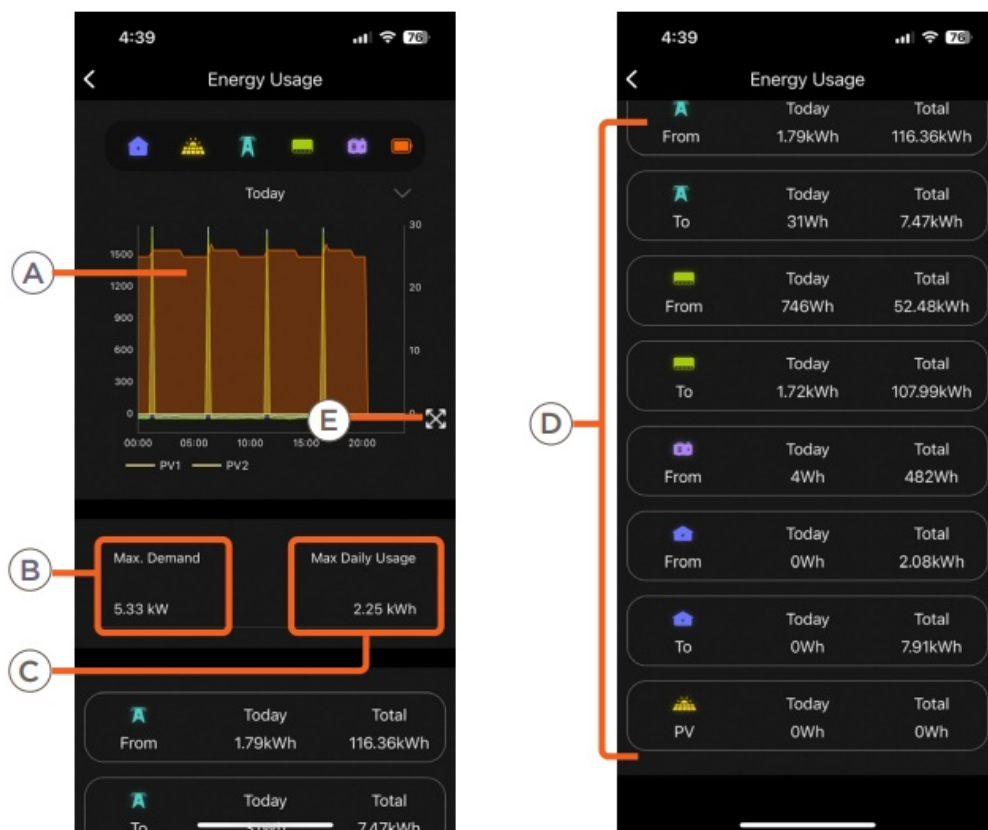
- Toggle to Active to display all active real time notifications.
- Toggle to History to display all changes in behavior in reverse chronological order.
Scroll down to see older notifications.



Energy Usage

Energy Usage displays system production and consumption data for all power sources connected to the Savant Power Storage inverter.

Setting	Description
Energy Usage Graph	All energy sources and consumption over time. Toggle individual power source visibility on the energy usage graph using Power Source icons.
Max Demand	Highest total load consumption recorded, in kW
Daily Usage	Average total load consumption per day in kWh
Summary	Detailed total and energy transactions for all power sources
Expand	Click the  icon to view the graph in full screen



Parallel & Shared Battery

Enabling Parallel System Configuration allows multiple Savant Power Storage Inverters to function in parallel. A parallel system always has one Leader inverter and may have several Follower inverters. Shared Battery configuration allows two inverters to share a single battery stack. To access this menu, navigate to Settings > Parallel & Shared Battery. Then configure according to inverter hierarchy as described below.

⚠ IMPORTANT NOTES:

- Parallel & Shared Battery settings are not translated to other inverters automatically. Complete these steps for each inverter in sequence.
- Inverters must be connected to each other using the Parallel System port on the left side with termination connectors at each end.

Leader Inverter

Program the leader inverter first. It is most commonly the first or last inverter in the parallel chain, and is connected to the acral meter. See the relevant [Savant Power Storage \(20/50\) Installation Manual](#) for more details.

1. Enable Parallel System.
2. Set the Control Mode to Leader. This will set the COMM Address to 1.
3. Set the COMM Mode to Wired.
4. Set the Total Inverter Quantity to the number of paralleled inverters.
5. If two Savant Power Storage inverters share a battery stack, enable Shared Battery Mode. Shared Battery Mode automatically controls the rate at which the inverters will charge the shared battery.

Refer to the table below for charge rates per-inverter:

	Power Storage 20	Power Storage 50
One Inverter per Battery Stack	6.5kW	25kW
Two Inverters per Battery Stack	3.25kW	12.5kW

Once all follower units have been configured, the leader unit will display each configured follower at the bottom of the screen.



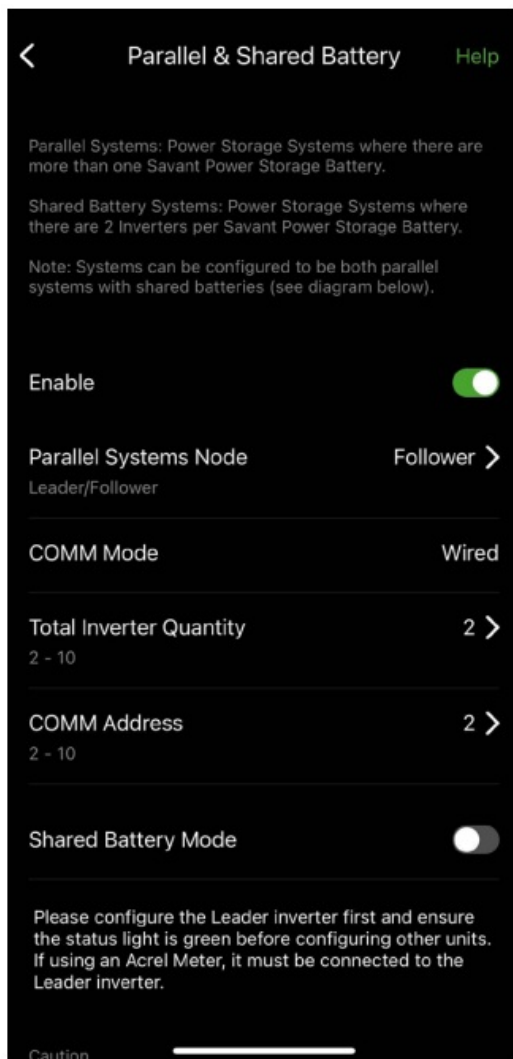
Follower Inverters

1. Enable Parallel System.
2. Set the Control Mode to Follower. This will set the COMM Address to 2 or higher, according to the number of inverters in parallel. Each inverter must have a unique COMM address.
NOTE: When using Shared Battery Mode in parallel, the COMM Address should increment in pairs; i.e. inverters 1&2 share one battery stack, 3&4 share the second battery stack, etc.
3. Set the COMM Mode to Wired.
4. Set the Total Inverter Quantity to the number of paralleled inverters.
5. If two Savant Power Storage inverter units share a battery stack, enable Shared Battery Mode. This mode controls the charge rate if the inverter shares the connected battery stack with another inverter.

	Power Storage 20	Power Storage 50
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One Inverter per Battery Stack	6.5kW	25kW
Two Inverters per Battery Stack	3.25kW	12.5kW

Once all follower units have been configured, the leader unit will display each configured follower at the bottom of the screen.



Battery Operation

Battery Operation is used to configure system operating parameters according to site usage goals and utility rate plans. From the Power Overview menu, select Settings > Battery Operation.



IMPORTANT: The Power Storage System will use the following priority to power

connected loads.

The system will prioritize using solar to offset loads before charging the battery:

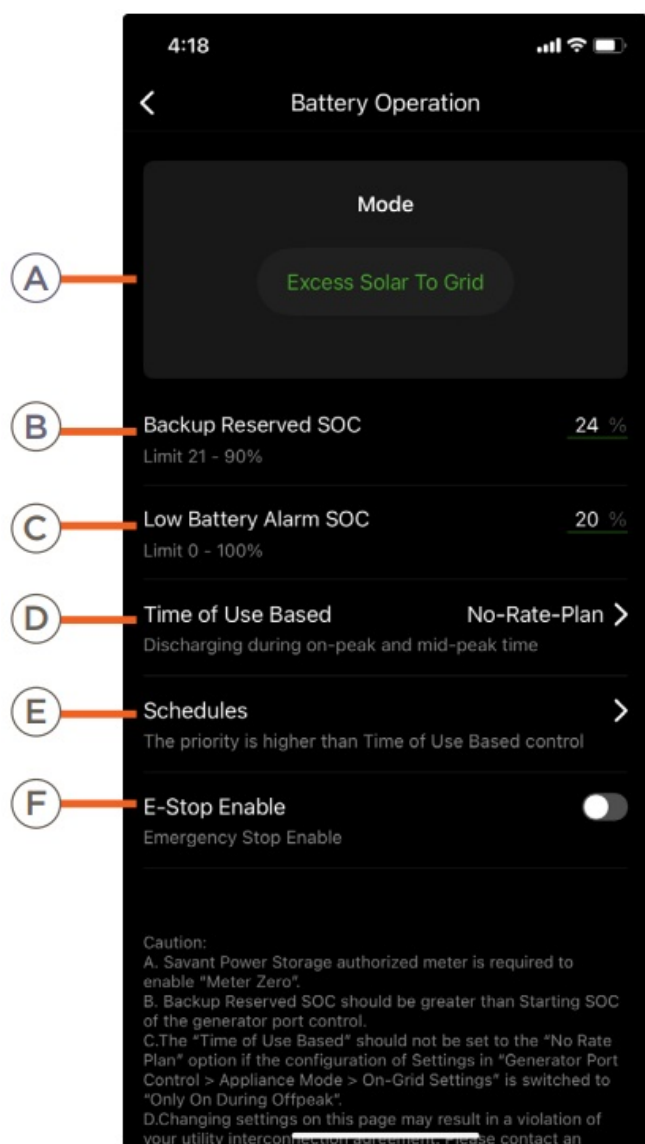
Powering Loads

1. DC Coupled Solar
2. Battery Power (until Backup Reserved is met)
3. Utility Power

NOTE: If sufficient solar is available, batteries will charge to 100% before exporting (if applicable), and discharge to the Backup Reserved State of Charge.

Setting	Description
Power Modes	See Power Modes.
Backup Reserved SOC	<p>User-configured minimum State of Charge (SOC) the Savant Power Storage System will discharge to when operating on grid. This controls the following behavior:</p> <ul style="list-style-type: none">• On Grid: When sufficient solar power is not available, the battery offsets loads until the Backup Reserved SOC is met. Loads are then powered by utility power. The battery will attempt to charge when sufficient solar power becomes available.• Off Grid: The battery will continue to power loads until 0%. Backup Reserved SOC is not utilized in this use case.• Grid Outage: The battery will continue to power loads until 0%. When utility power returns, the battery will charge up to the Backup Reserved SOC. The battery will finish charging to maximum battery SOC using solar energy if available. <p>NOTE: Certain features, such as Storm Watch, disregard the Backup Reserved SOC setting and will prioritize charging the battery to 100%.</p>

Low Battery Alarm SOC	The battery SOC at which the Power Overview Current Battery State color will change to indicate low battery charge.
Time of Use Based	Configure system Time of Use (ToU) settings for battery use age. If the desired rate plan is not listed, multiple generic options exist under the OTHER category. Contact Savant Support for assistance if setting a ToU plan.
Schedules	Configure battery use according to schedules. Schedules override TOU settings. If none of the options meet system requirements, contact Savant Support to build a custom schedule using the Schedules tool.



 **IMPORTANT!:** Contact Savant Support if the site requires more advanced charging

and discharging logic.

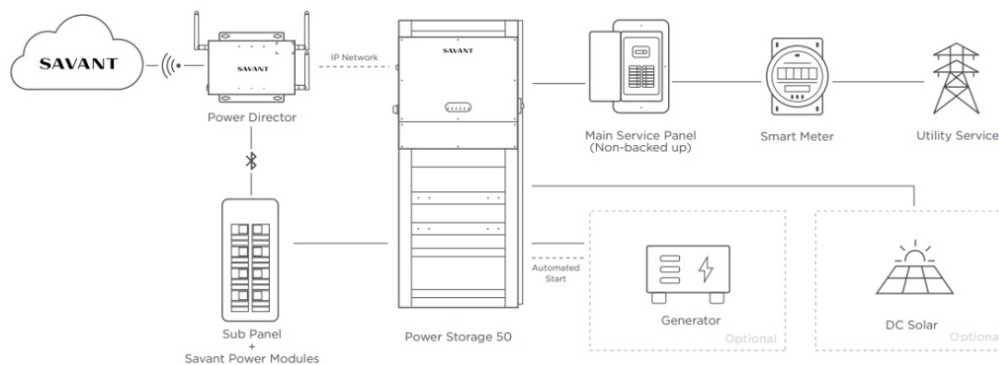
Power Modes

Power Modes control inverter and battery behavior while on grid to optimize efficiency and cost savings.

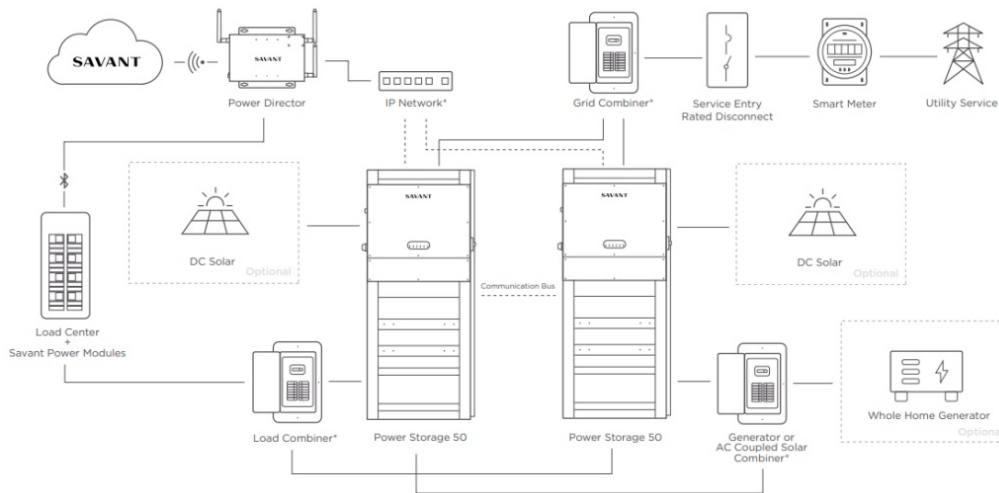
Mode	Description
Self Sufficiency	<p>Prioritizes powering backed up loads with solar and battery. If battery falls below Back up Reserved SOC, loads are offset by utility power.</p> <p>Battery will charge when solar production is greater than backed up loads. Excess DC coupled solar will not be sold back to grid.</p> <p>NOTE: Self Sufficiency Mode can be used with an Acral meter to power non backed up loads</p>
Meter Zero	<p>Prioritizes powering backed up and non backed up loads with solar and battery. If battery falls below Back up Reserved SoC, loads are offset by utility power.</p> <p>Battery will charge when solar production is greater than backed up loads. Excess DC coupled solar will not be sold back to grid.</p> <p>AC coupled solar can not be controlled in Meter Zero and may be exported to the grid.</p> <p>IMPORTANT: Requires the use of an Acral AGF-AE-D/200 meter. See the applicable Savant Power Storage 20/50 Installation Manual for further instruction.</p>

<p>Excess Solar to Grid</p>	<p>Prioritizes powering backed up loads with solar and battery. If battery falls below Back up Reserved SoC, loads are offset by utility power.</p> <p>When DC coupled solar production exceeds demand of loads and battery consumption, excess energy is exported to the grid.</p>
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PARTIAL HOME BACKUP / SINGLE UNIT APPLICATION



WHOLE HOME BACKUP / STACKED APPLICATION



Power Sources

Enable the power sources under the Settings > Connected Power Sources submenu matching the power sources installed onsite.

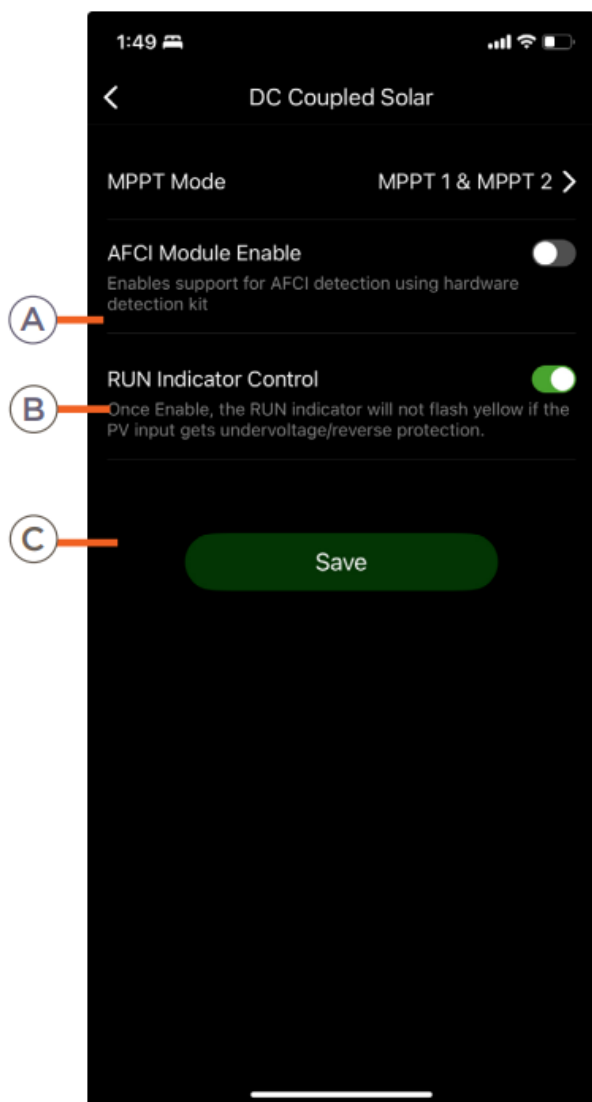


IMPORTANT: Read and follow all relevant documentation and installation guides before continuing.

DC Coupled Solar


DC Coupled Solar settings are configured under Settings > Connected Power Sources > DC Coupled Solar.

Setting	Description
MPPT Mode	Choose which MPPTs are used
AFCI Module	Toggle to indicate whether AFCI Modules are installed NOTE: Refer to relevant installation manual for further information on AFCI operation.
RUN Indicator Control	When disabled, the inverter RUN indicator will flash when PV is undervoltage or offline. NOTE: It is recommended that this setting remain enabled .



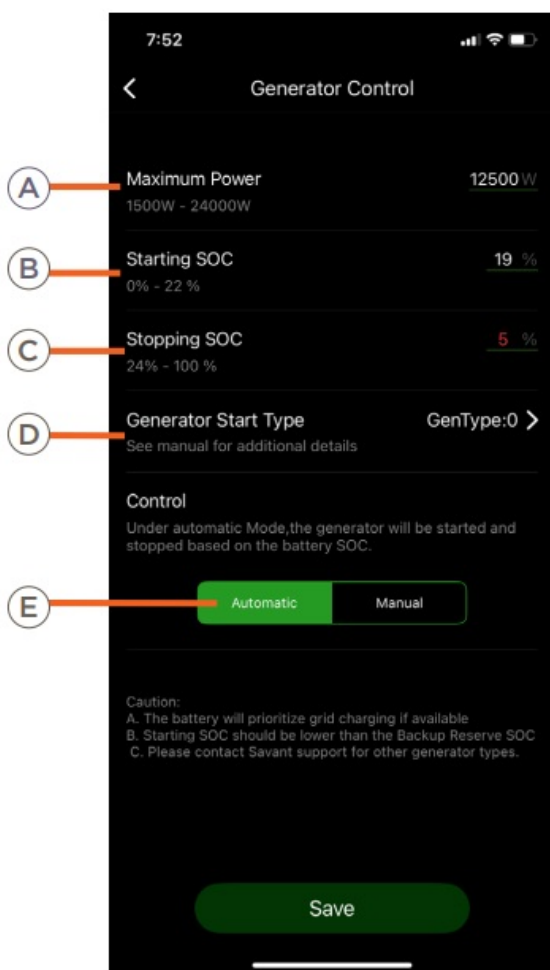
Generator Port Control

Navigate to Settings > Connected Power Sources > Generator Control to configure generator settings.

 **IMPORTANT:** Refer to the relevant Savant Power Storage 20/50 Installation Guide for instructions on wiring a generator before continuing. All generator manufacturer requirements must be met during the installation process.

Setting	Description
Maximum Power	The maximum output of the generator based on continuous current draw from generator, up to 100A

Starting SOC (Automatic Only)	The battery state of charge at which the Savant Power System commands the generator to start
Stopping SOC (Automatic Only)	The battery state of charge at which the Savant Power System commands the generator to stop
Generator Start Type (Read Only)	The Savant Power Storage inverter supports 2-wire start generators. See the applicable Savant Power Storage Inverter Installation Guide for more information
Control	Automatic – (Off Grid Only) Automatically send start and stop commands to the generator based on battery SOC.
	Manual – (Off Grid Only) Manually start the generator. For diagnostic purposes only.



IMPORTANT NOTES:

- Do not exceed the output power rated for the generator.
- Follow all generator manufacturer's guidelines.
- Generator operation is only supported for off grid use.
- Adjusting the SOC setting in this menu will impact and automatically adjust the Backup Reserved SOC parameter in the Battery Operation menu – the Backup Reserved SOC must be higher than or equal to the Generator Starting SOC.

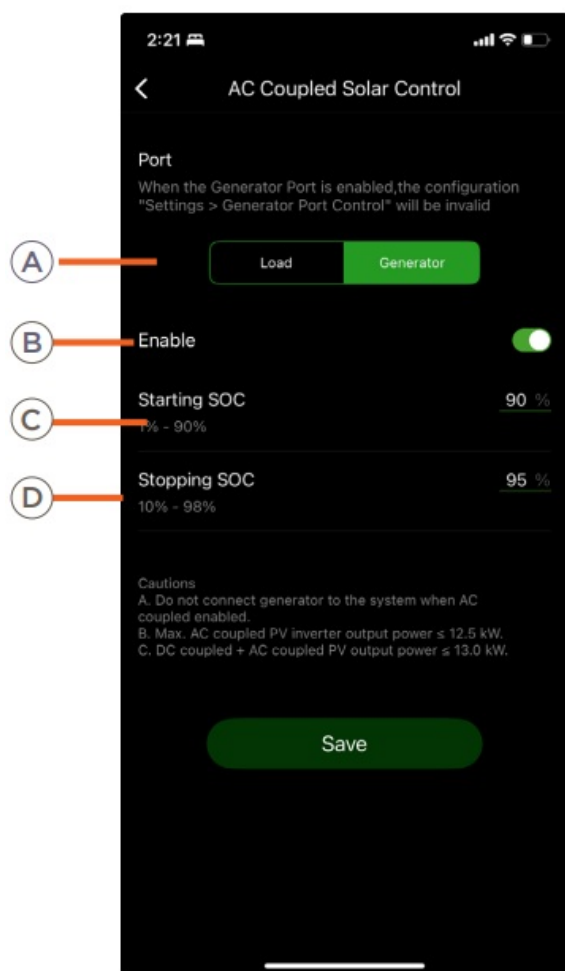
AC Coupled Solar Control



IMPORTANT!: Complete all AC solar wiring listed in the applicable Savant Power Storage Installation Guide before enabling AC Coupled Solar Control.

Configure the fields below to control AC solar behavior.

Setting	Description
Load or Generator	Select Load or Generator port for AC Solar input NOTE: AC coupled solar is only supported on the Load port in single-inverter installations
Enable	Enable or Disable AC solar input
Starting SOC	The SOC threshold the battery must reach before the inverter starts charging the battery using AC solar
Stopping SOC	The SOC threshold the battery must reach before the inverter stops charging the battery using AC solar



IMPORTANT NOTES:

- The inverter cannot control export of AC coupled solar power to the grid.
- The Starting SOC is always at least 5% lower than the Stopping SOC.
- Both the AC Coupled Solar Control Starting & Stopping SOC and the Generator Starting and Stopping SOC override the Battery Operation Backup Reserved SOC when enabled.

Smart Rectifier Control

For system designs incorporating smart rectifier control, contact Savant Support for assistance before proceeding.

Interconnection Settings

Grid Settings

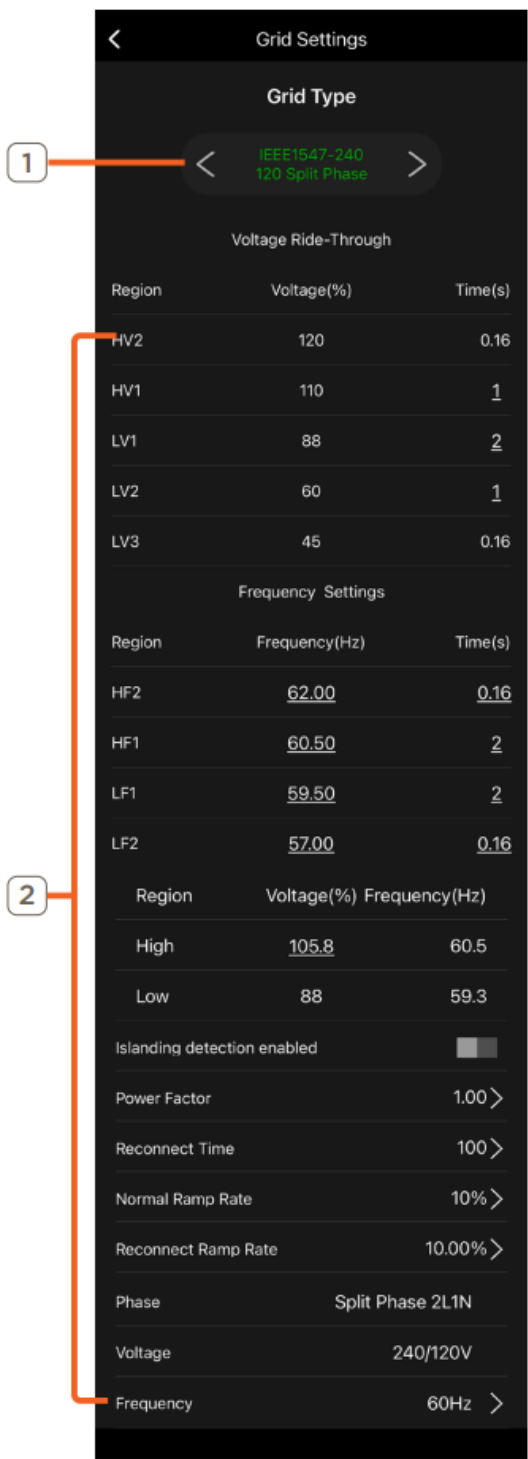
1. Use the left and right arrow to select the appropriate interconnection requirements per guidance from local utility.

2. Adjust voltage and frequency ride throughs by selecting the parameter requiring adjustment. Only underlined settings may be configured.





IMPORTANT NOTES:

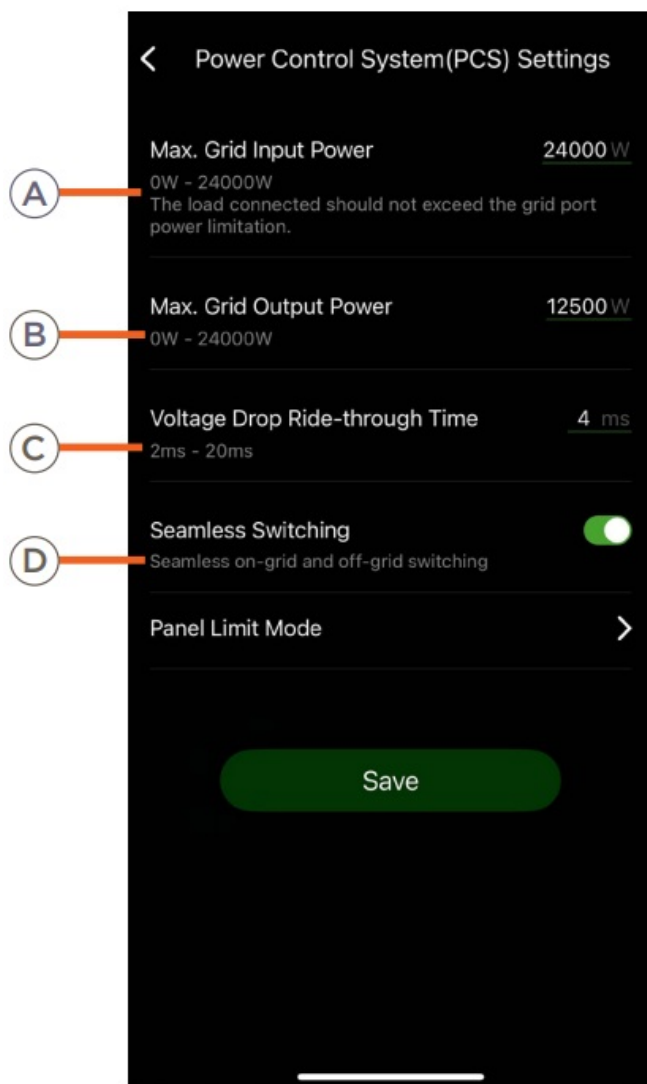
- Utility grid operators may require interconnection settings unique to the site. Refer to local interconnection guidelines to confirm the appropriate settings.
- Only qualified personnel should edit Interconnection settings.
- Incorrect interconnection settings could void Permission To Operate (PTO) from local utilities.
- The inverter must be restarted after changing any parameter.
- If none of the settings provided match the configuration requested by a utility, contact to Savant Support.




Power Control Systems (PCS) Settings

Setting	Description
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Max Grid Input Power	<p>Maximum load support when on grid. Setting to 24000W is highly recommended. If the system was previously configured with a value of less than 24000W, contact Savant Support.</p> <p> IMPORTANT: Setting to a value lower than 24000W may discharge the battery to offset home loads during normal operation – depleting the battery.</p>
Max Grid Output Power	<p>Maximum system export rate to grid in W</p> <p> IMPORTANT: Setting to 0 will prevent solar and battery power from being exported to the grid.</p>
Voltage Drop Ride Through Time	<p>Time the system will wait before switching off grid. In locations with larger voltage fluctuations, it is recommended to increase the Ride Through Time. Check with local utility before making modifications.</p> <p>Recommended setting: 4ms</p>
Seamless Switching	<p>Optimizes transfer time when switching off grid. Enabling this setting is recommended.</p>



 **IMPORTANT:** Settings must be uniform across all parallel inverters.

Panel Limit Mode

In Panel Limit Mode, the inverter continuously monitors the amperage on the main breaker bus bar, comparing the PCS import/export with the main breaker. Using this information, the inverter automatically enters Standby mode and ceases exporting power from the grid terminal if one of the following conditions are met:

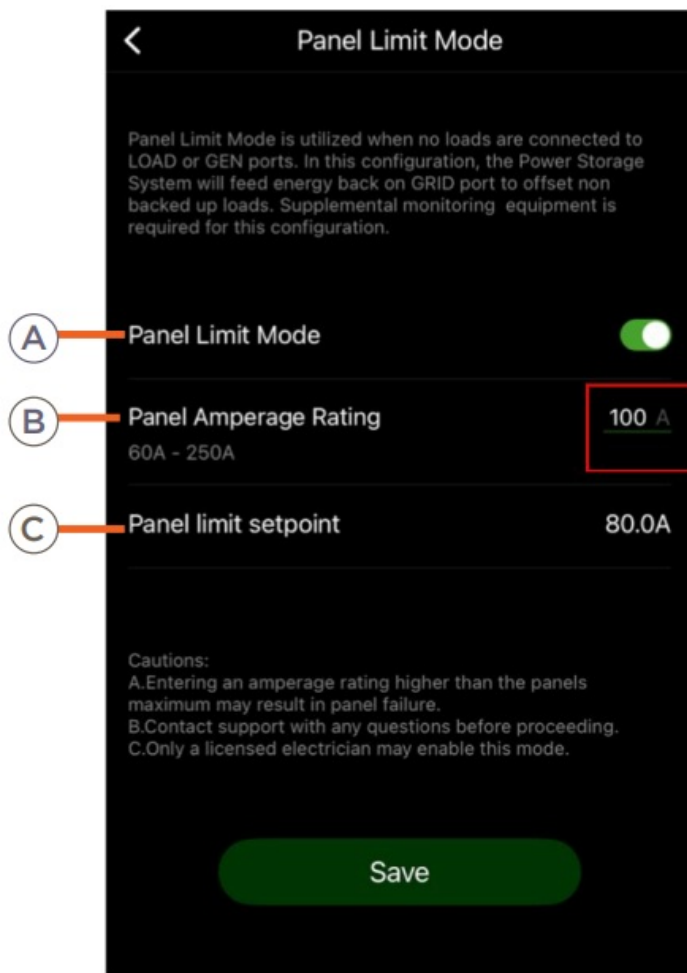
1. The sum of the grid current and inverter discharge current exceeds the Panel Limit setpoint.
The software requires the total current on the load center bus to stay below 75% of the main breaker rating for 5 minutes before the Inverter is allowed to discharge.
2. The total grid current reaches the Panel Limit setpoint.
 - Standby mode reduces the total amount of load on the load center by a factor of

the Battery Monitoring System (BMS) minus maximum charge rate. The default is 6.5kW / 26A @240V.

- The upstream power meter must read a current level below 75% of the main breaker size minus BMS Charge Rate for 5 minutes before the inverter will charge from the grid again.
3. The inverter loses communication with the power meter – this causes the inverter to enter Standby mode as a failsafe, and generates an alarm condition in the SPS app.

For further details on Panel Limit Mode, refer to the [Panel Limit Feature](#) support article.

Setting	Description
Panel Limit Mode	Toggle Panel Limit mode
Panel Amperage Rating	Amperage rating of the main breaker panel or the rating of the closest upstream over-protection device feeding the monitored & controlled panel bussing. A 100A Main Breaker Panelboard has a 100A Panel Amperage Rating
Panel limit setpoint	80% of the Panel Amperage Rating value and the threshold that triggers the inverter to enter Standby mode



IMPORTANT: Panel Limit Mode is intended only for installations where no loads are backed up. Contact Savant Support for design assistance, further information, or questions regarding the use of this mode.

Important Notice

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- To contact Savant Support, access the Savant Customer Community and enter a support Case ticket.
- To contact Savant Sales, visit Savant.com and select Contact Us to locate a local sales representative in your area.

Customer Support

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Documents / Resources

	SAVANT 009-2402-01 Power Storage App [pdf] User Guide 009-2402-01, 009-2402-01 Power Storage App, 009-2402-01, Power Storage App, Storage App, App
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References

- [User Manual](#)

009-2402-01, 009-2402-01 Power Storage App, app, Power Storage App, SAVANT, Storage
SAVANT App

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