



Generator Integration Installation Guide

aGate X, SKU: AGT-R1V2-US; AGT-R1V3-US

aHub: SKU: ACCY-AHUBV1-US

Generator Module, SKU: ACCY-GENV2-US

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Please read this document carefully before installing or using the FranklinWH equipment. Failure to follow any instructions or warnings in this document may result in damage to the equipment, personal electric shock, severe injury, or even death.

Product Information

This document applies only to the following products: aGate X, aHub, and the FranklinWH Generator Module.

FranklinWH Energy Storage Inc. (FranklinWH) reserves the right to make any improvements to the product, and the contents in this document shall be subject to updates without further notification.

All images and pictures provided in this Manual are only for demonstration purposes and may differ in detail from the product, based on the product version.

Feedback

If you have any questions or comments, please send us an email at: service@franklinwh.com

Disposal of Scrapped Products

Scrapped products (including their internal chemicals and electrical materials) should not be disposed of with household waste. Please refer to your local laws and regulations regarding disposal.



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Overview

The FranklinWH System integrates third-party generators via the optional Generator Module on aGate or the branch circuit built into aHub. When the utility grid and solar are not available, during a prolonged outage or at night, the aPower battery charge may be depleted. In such situations, a generator may serve as a backup power source for the household loads and to recharge the aPower battery. The addition of a generator to FranklinWH can provide uninterrupted power to homes during prolonged outages.

The FranklinWH system is designed to support a single emergency power source, selected from either a standby generator, a portable generator, or V2L.

Key features of the FranklinWH generator integration:

- Compatible with most 240 V, 60Hz standby and portable generators.
- The generator can both power home loads and charge aPower batteries.
- The auto-exercise function can maintain good generator performance.
- Customize generator operation based on homeowner preferences.

Auto Mode

State of Charge (SOC) Control: The generator will automatically start when the FranklinWH System is working in off-grid mode and the battery SOC falls below the set level (20% default, adjustable from 10 to 80%). The system will activate the generator to power the home, with surplus power charging the aPower X batteries.

When grid power resumes, morning comes and the solar array returns to producing energy, or the FranklinWH battery level reaches the upper SOC (80% default, adjustable 20-100%), the generator will automatically shut off, and other sources will power the home loads.

Charging Schedule: Based on their own habits, homeowners may set up a charging schedule through the FranklinWH App for the time periods when power supply from the grid is interrupted. The settings allow up to three non-overlapping time periods in a single calendar day. When the generator is activated to power the loads, it also charges the batteries. When the charging period ends, the generator is shut off.

Manual Mode

When the power supply from the grid is interrupted, users may manually operate the generator through the app. For example, when a power outage occurs, the user may start the generator when leaving the home, to charge the FranklinWH System in advance, and may shut off the generator via the app before they return home, so that the system will take over as the power source. This helps to manage the noise produced by the generator, so that customers may enjoy a quieter home environment.

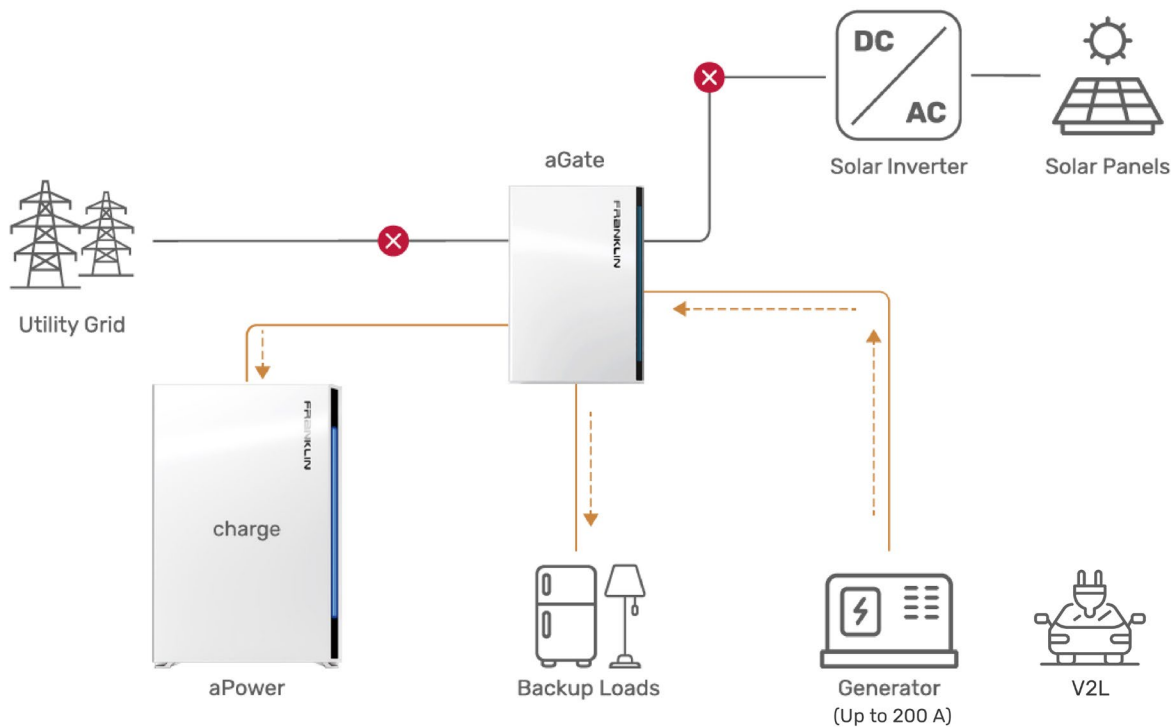
Supported generators:

- Voltage sensing
- ATS
- Dry Contact
- Portable Generator



NOTE: FranklinWH does not support 3-phase generators or 120 V single-phase generators. Only 240 V split-phase generators with a 4-wire connection (L1, L2, neutral and ground) are supported.

Generator Integration with aGate



WARNING

When integrating with a generator, all PV AC strings in backup side shall be connected to the PV ports on the aGate and/or aHub, which have a built-in PV relay.

Direct connection to the electrical panel via split CTs is not permitted, as the PV AC output cannot be isolated during off-grid generator startup, and the system does not allow the generator and PV AC to run simultaneously. When the generator or V2L is running, the PV relay opens to disconnect the PV AC strings from the system.

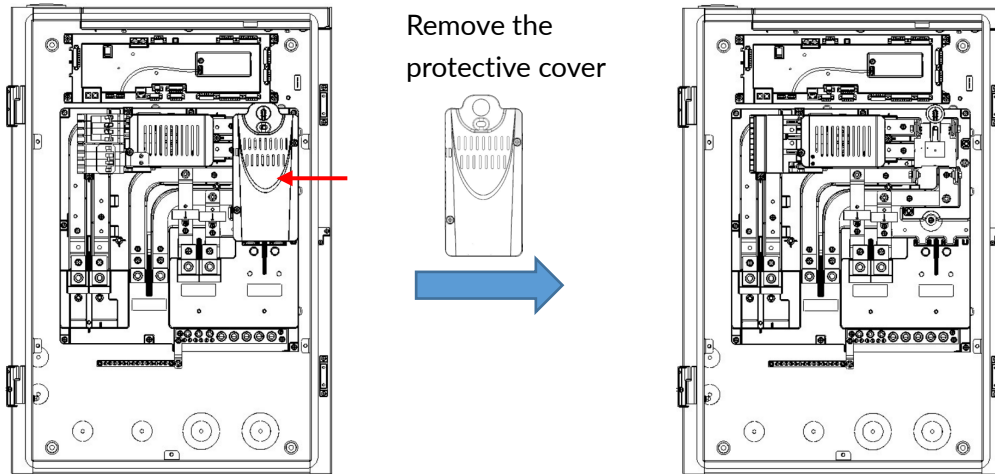
Preparation

The Generator Module does not come with breakers, or the wiring and conduit necessary to connect the generator to the aGate. Before heading to the installation site, evaluate the installation needs and bring all necessary components.

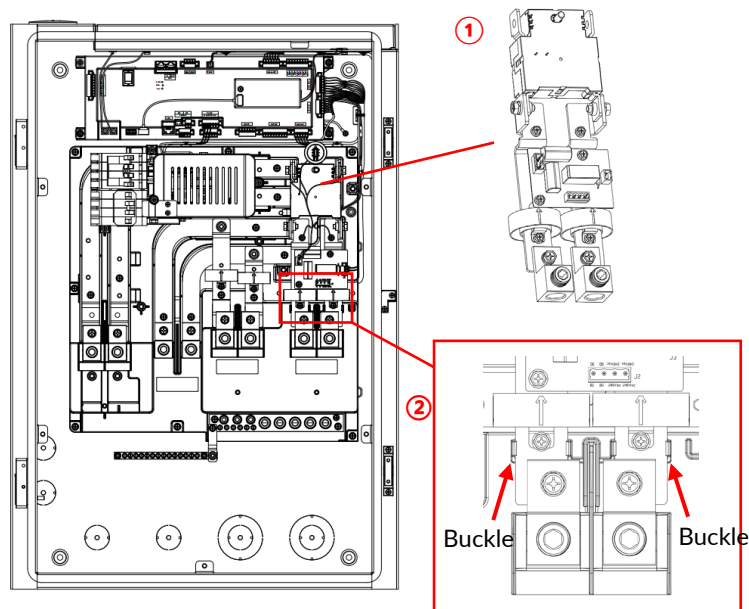
Generator Module Installation

Before installation, make sure all breakers in the aGate and all switches connected to the aGate are disconnected. Use a multimeter to check the voltages at both input and output terminals of aGate are zero (0).

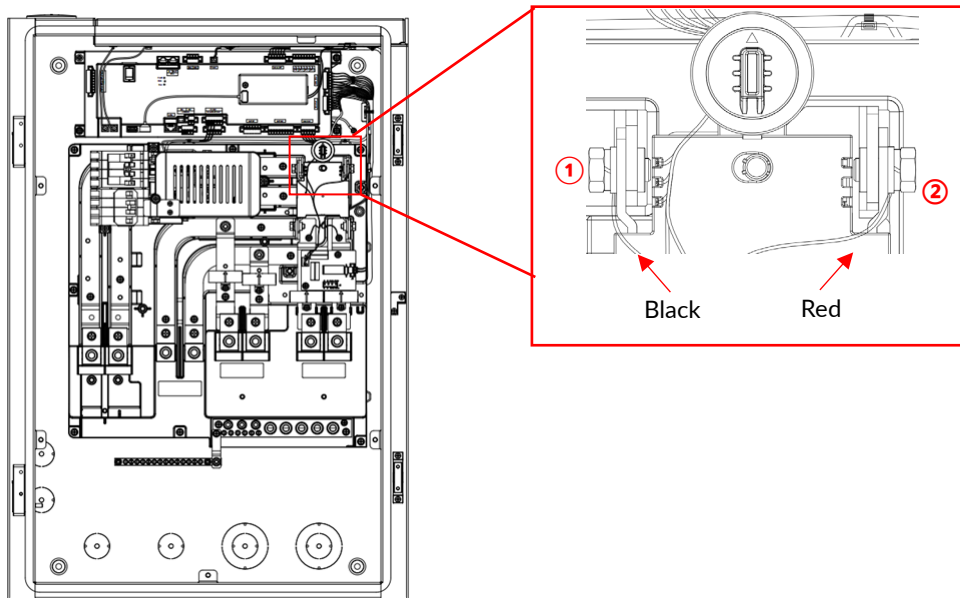
1. Use a Phillips screwdriver to loosen the two M5 captive screws on the protective cover. Remove the protective cover and keep it in good condition.



2. Place the Generator Module in the position as shown in the figure below and check that all mounting holes are properly aligned. Ensure that the generator module copper plate is properly seated in the buckle and that the cable is not pinched.



3. Connect the black wire L1 of the W008 cable to position 1, the red wire L2 to position 2, and use a 10 mm ratchet wrench to tighten the two M6x12 screws at positions 1 and 2 to the recommended torque.

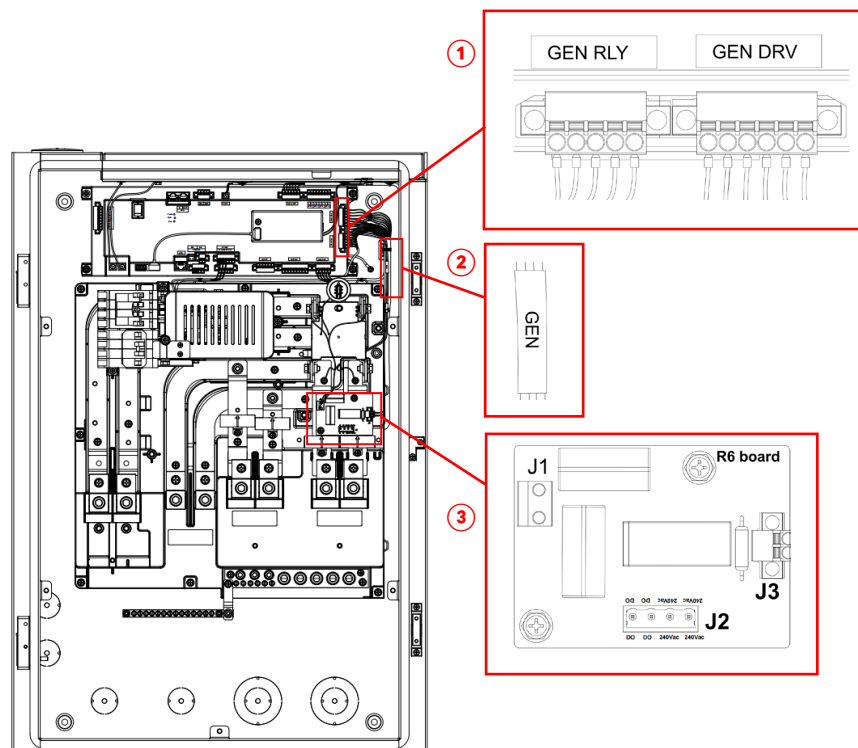


4. Connect the wires as shown in the figure below.

Position 1: Connect the GEN RLY cable to the GEN RLY connector on the EMS module. Connect the GEN DRV cable to the GEN DRV connector. Remove the adhesive film on the cable holder and stick the cable holder onto the inner wall of the aGate.

Position 2: Plug the GEN cable from the generator module to the corresponding reserved GEN cable on the right side of the EMS.

Position 3: Attach the R6-J1 cable to the J1 connector and the R6-J3 cable to the J3 connector on the R6 board.



**NOTE**

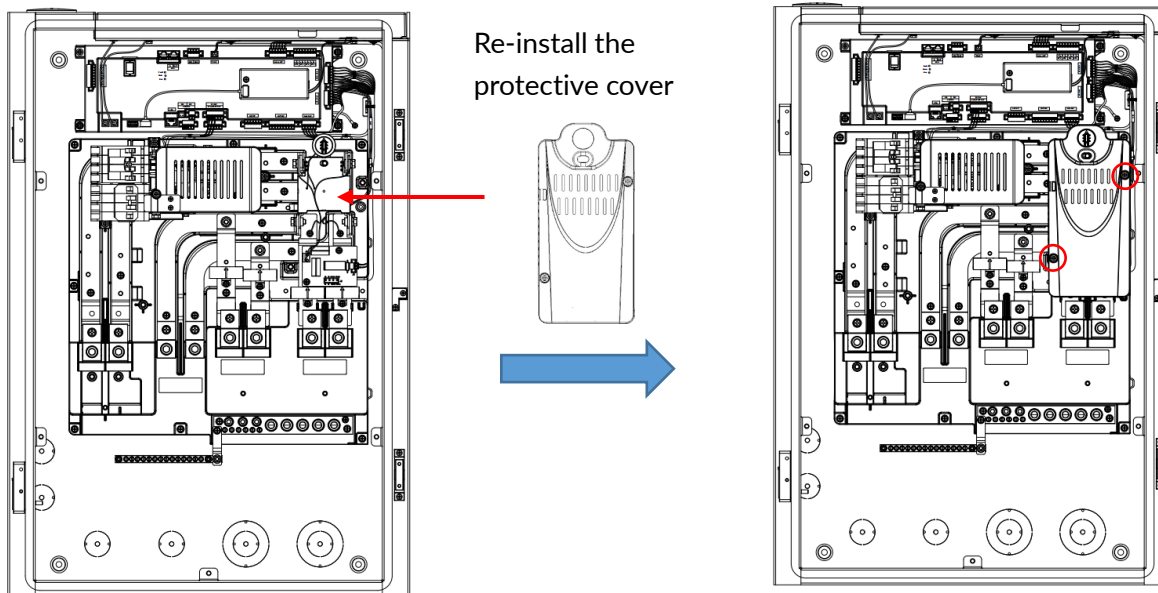
- The label can be found on the cable.



- There is an adhesive cable holder for the GEN DRV cable.



5. Re-install the protective cover and fasten the two M5 captive screws using a Phillips screwdriver.

**NOTE**

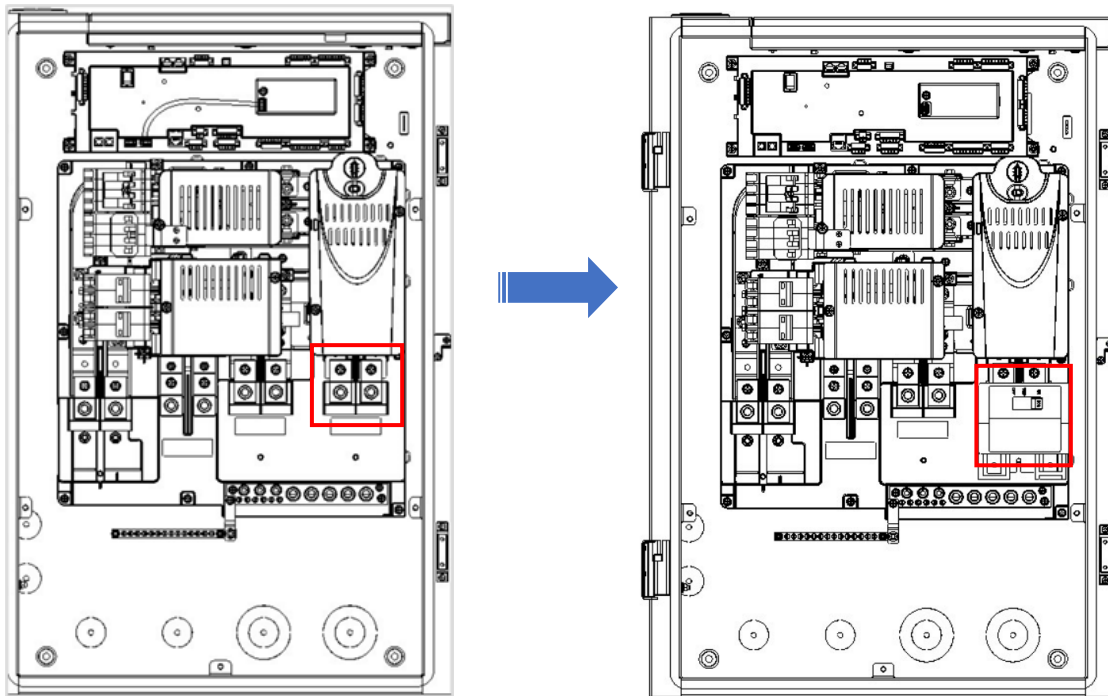
FranklinWH is not liable for any property damage to the home caused by the use of a portable or stationary generator.

Generator Breaker Installation (if needed)

Install a generator breaker according to local laws, regulations, standards, and the National Electric Codes (NEC), ANSI/NFPA 70 or Canadian Standards Association CSA C22.1. The generator breaker is not included and must be ordered separately. Refer to [Appendix 1](#) for compatible breakers.

Before installing a generator breaker, remove the connected lugs. When a generator breaker is not installed, the conductors can be directly connected to these lugs. Follow the instructions below to remove the lugs and install a generator breaker:

1. Using a Phillips screwdriver, remove the two M6 x 16 combination bolts holding the lugs and save them for later use. Then remove the lugs.
2. Use the two M6 x 16 combination bolts to attach the breaker. Then use the M4 x 10 screw to secure the breaker. Tighten the M4 screw to 1.03 lbf·ft (1.4 Nm) and the M6 screw to 4.42 lbf·ft (6.0 Nm) using a Phillips head torque screwdriver.
3. Attach the provided **L2 Generator L1** labels on the surface of generator breaker.



Connect the Standby Generator to the Generator Module

NOTE

For Generac generators:



- Always connect with your local Generac dealer.
- Unless it is removed by a certified Generac dealer, the existing Generac ATS has to be left in place as part of the integration.
- When you work with the local Generac dealer, the best implementation of generator controls is a low voltage, two-wire start. That conversion can be had with them.

Follow the procedures below to connect a standby generator to the aGate. Refer to [Appendix 3](#) for wiring requirements.



WARNING

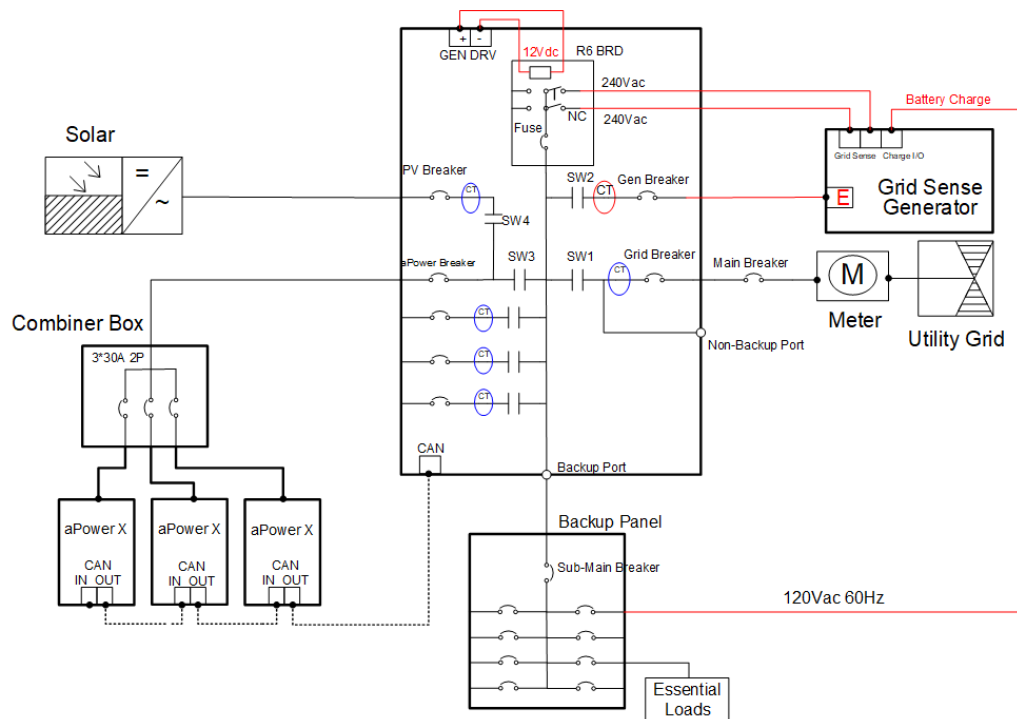
The 240 Vac interface is used to connect Voltage Sensing and ATS-type generators, while the DO interface is suitable for dry contact generators. Connecting to the wrong interface may result in damage to the generator.



Voltage sensing generator connection

The system connects the generator's voltage sensing interface to monitor voltage levels and automatically start and stop the generator as needed. Additionally, a charging interface ensures the generator's battery remains charged for optimal operation.

The following wiring diagram is for reference only. Refer to the generator manufacturer's instructions for specific wiring requirements.



NOTE

Due to differences in various generator types, the following wiring diagram is for reference only. Refer to the specific generator instructions for actual wiring requirements.

- 1) Connect the generator power output wires (E1, E2, NEU, GND) to the generator input terminals on aGate (L1, L2, Neutral & GND).
- 2) Connect the two 240 Vac pins on the R6 board to the voltage sensing port on the generator using appropriate cables, as shown in the diagram below. Please select cables of 18 AWG - 12 AWG gauge size according to local regulations.



- 3) Make sure to connect the battery charge terminal (T1) in the generator to the wire from a branch circuit of the Backup Panel.

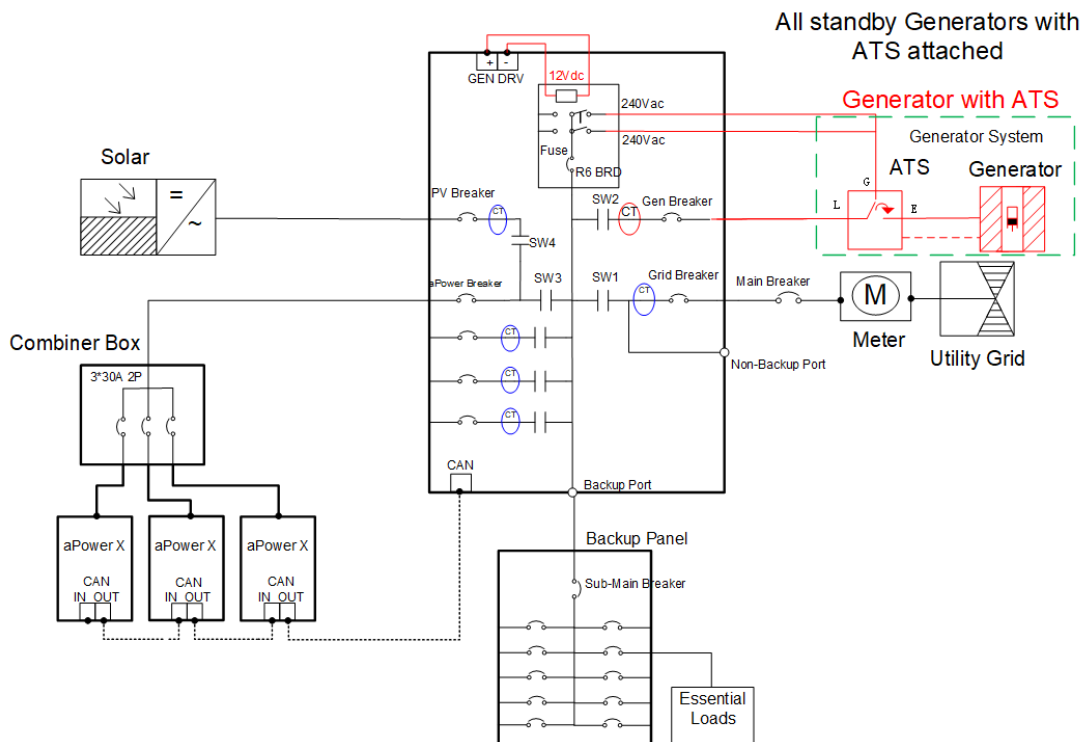
**NOTE**

Secure connection must be kept between the battery charge terminal and the Backup Panel branch terminal, whether the generator is on or off.

ATS generator connection

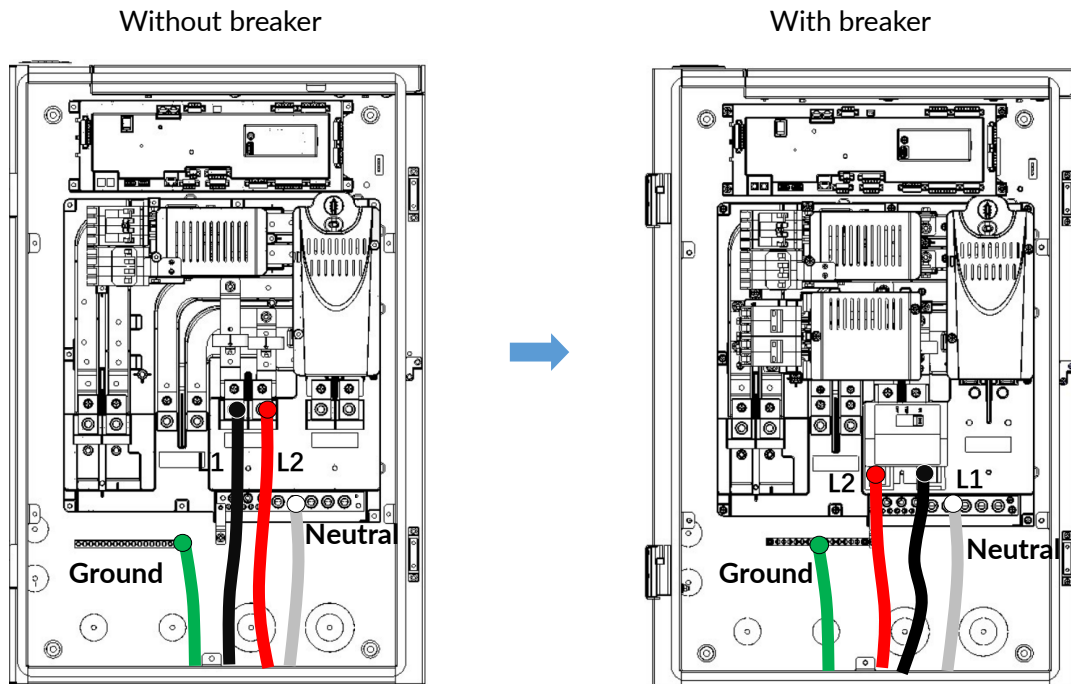
The FranklinWH System can automatically control the generator using the backup power bus's AC voltage, allowing for automatic switching between grid power and generator supply. This seamless switching ensures uninterrupted power supply.

The following wiring diagram is for reference only. Refer to the generator manufacturer's instructions for specific wiring requirements.

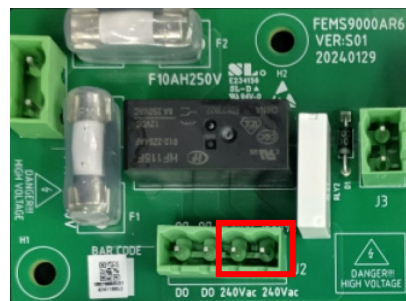


- 1) Remove the grid input cable from the generator system.

- 2) Connect the grid input cables to the grid terminals (L1, L2, Neutral & GND) in aGate.



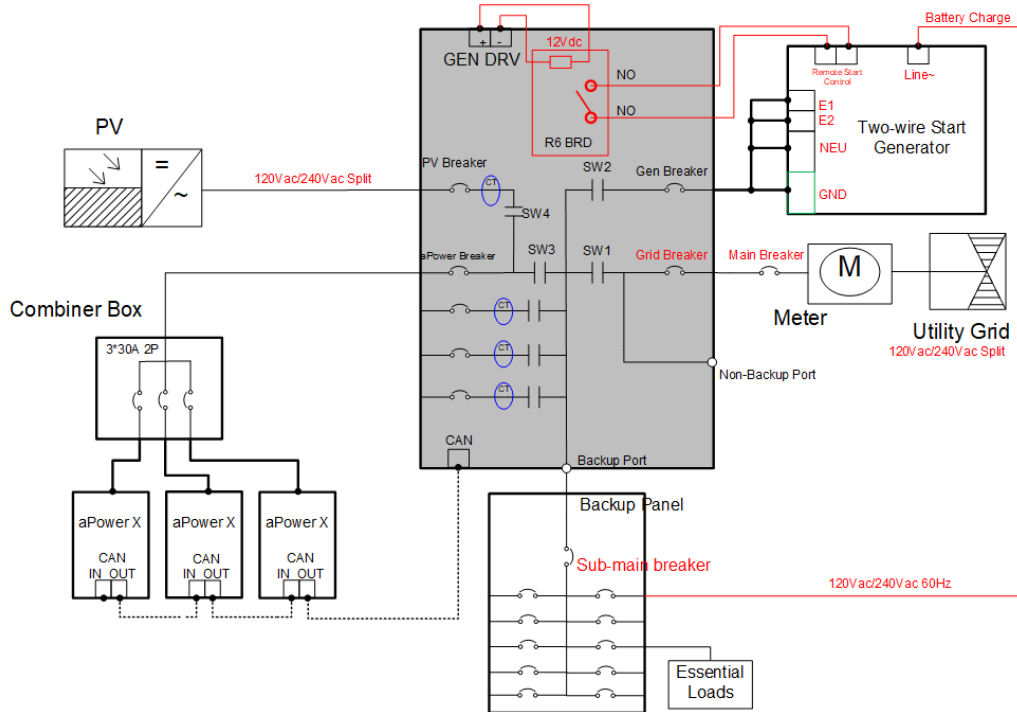
- 3) Connect the output terminals of the generator system to the generator input terminals on the aGate.
- 4) Connect the two 240 Vac pins on the R6 board to the main power input port of the ATS (Automatic Transfer Switch), as illustrated in the diagram below. Please select cables with a gauge size of 18 AWG – 12 AWG according to local regulations.



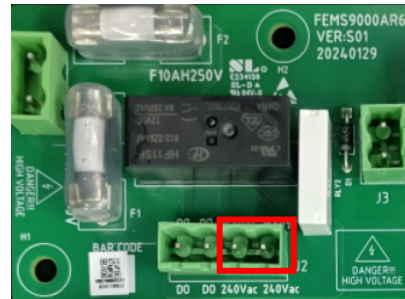
Dry Contact generator connection

The system uses dry contact signals to connect two-wire generators, allowing for automatic control of the generator. The system also includes a charging interface to prevent the battery from being depleted.

The following wiring diagram is for reference only. Refer to the generator manufacturer's instructions for specific wiring requirements.



DO/DO ports on the Generator Module



Utility voltage ports on the Generator Module

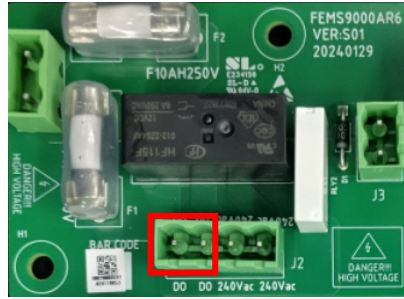
NOTE



Due to differences in various generator types, the wiring diagram is for reference only. Refer to the specific generator instructions for actual wiring requirements.

- 1) Connect the generator power output wires (E1, E2, NEU, GND) to the aGate generator input terminals (L1, L2, Neutral, GND).

- 2) Connect the two DO pins on the R6 board to the two-wire starting interface on the generator, as shown in the diagram below. Please select cables with a gauge size of 18 AWG – 12 AWG according to local regulations.



- 3) Connect the Battery Charge terminal in the generator to the wire from a branch circuit of Backup Panel.

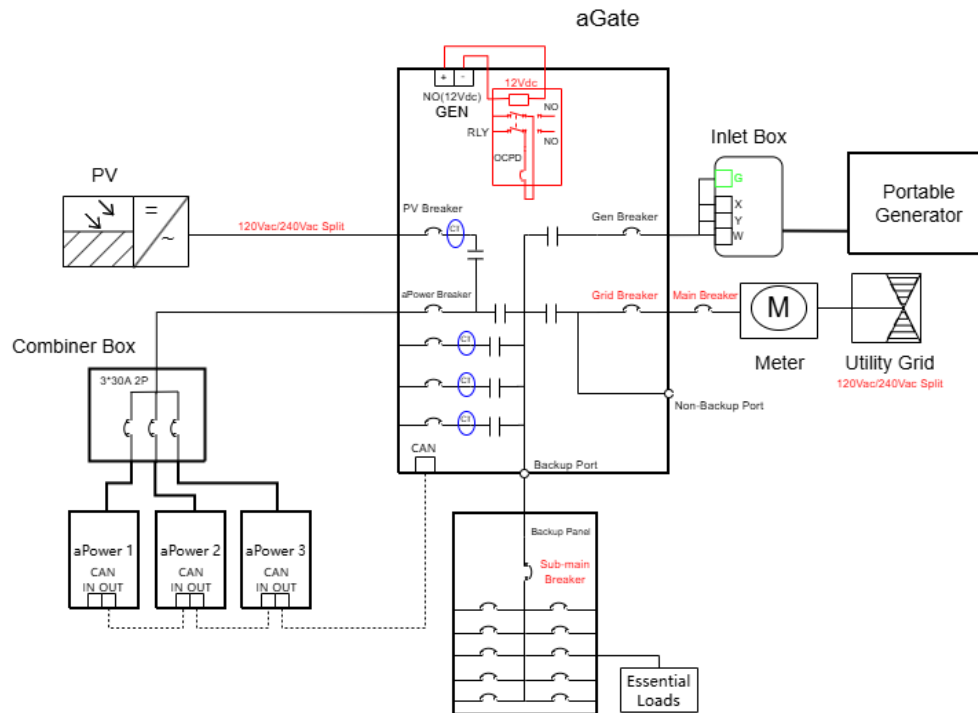


NOTE

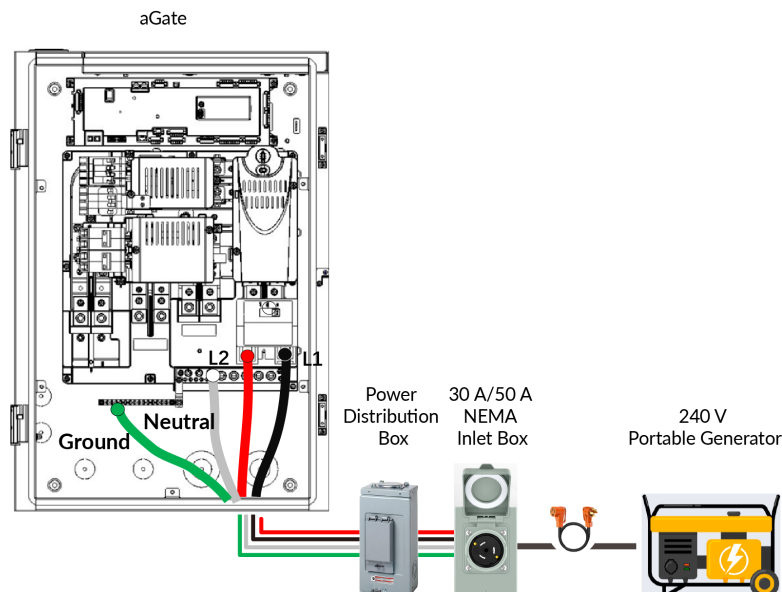
- The connection must be kept between the Battery Charge terminal and the Backup Panel branch terminal, whether the generator is on or off.
- Generator output may be shared across multiple aGates. In this case, 2-wire start is required to be used.
- The best practice is to have the local generator dealer prepare the generator for a 2-wire start before the FranklinWH System connection date.

Connect the Portable Generator to the Generator Module

Portable generators are intended for manual start only. Installation and wiring of the portable generator and its NEMA inlet box must be performed by a qualified electrician in accordance with NEC requirements. Homeowners simply need to plug in the portable generator cord and then start/stop the generator via recoil cord or electric start button as needed.



- 1) Install a NEMA inlet box according to the manufacturer's instructions.
- 2) Connect the NEMA inlet box (X, Y, W, G) to the corresponding aGate generator input terminals (L1, L2, Neutral & GND).
- 3) Select proper generator cord to connect the portable generator and the NEMA inlet as needed.



NOTE: If the portable generator is not provided with integral overload and short-circuit protection, an overcurrent protective device shall be installed near the NEMA inlet box. Install in compliance with all applicable NEC provisions and local AHJ requirements.

Optional Power Distribution Box and Circuit Breaker		
Description	Manufacturer & model 1	Manufacturer & model 2
2-Pole, 10 kAIC, 30 A/50 A, 240 V	Siemens W0204ML1060 Siemens Q230/Q250	Eaton BR24L70RP Eaton BR230/BR250

**NOTE**

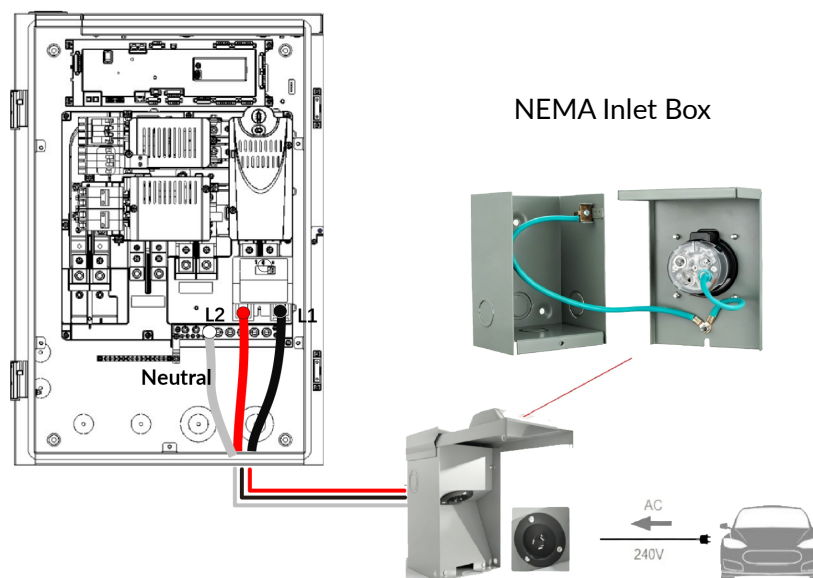
- Supports portable generators with 240 V output.
- Follow all guidelines in the portable generator documentation to prevent equipment damage or personal injury.
- It is important to keep the home loads to an absolute minimum when using a portable generator. Proper communication with the homeowner is essential to ensure realistic expectations.
- Do not interchange the NEMA inlet box of the portable generator with that of the V2L. For V2L-related wiring and usage, consult your dealer or refer to the V2L instruction manual.

Connect the Electric Vehicle (EV) to the Generator Module

During an outage, the FranklinWH system allows V2L-compatible EVs to power home loads and charge aPower battery. Many EV trucks feature a 240 V NEMA 14-30 or 14-50 outlet, which can be integrated with the FranklinWH system via the Generator Module on the aGate.

The aGate V2L architecture is designed for code-compliant installation, aligning with NEC Articles 625.60, 250.34, and 250.20 for vehicle-mounted generators with GFCI-protected receptacles connected via cord-and-plug V2L interfaces. For the Ford F-150 specifically, the ground wire in the NEMA 14 plug must be disconnected; otherwise, the truck will detect a ground fault and disable the outlet.

Connect the EV power output wires to the aGate terminals (L1, L2, Neutral) as shown below. The installer may use a NEMA inlet box and cables of their choice to simplify the connection.



Note: Do not interchange the NEMA inlet box of the V2L with that of the portable generator.

Recommended Standby Generator Sizing per FranklinWH aPower 2

When selecting the appropriate generator size for a power system, it's essential to ensure that the generator operates efficiently without overloading. The optimal running capacity for different generators varies, typically around 50% of its nameplate rating. Operating within this range helps to minimize Total Harmonic Distortion (THD) and prevent surging, which can negatively affect both the generator and connected appliances.

The table below outlines the recommended generator sizes for 1, 2, and 3-unit configurations of the aPower 2 battery, taking into account typical household needs and operational efficiency.

Configuration	Generator Power (kW)	Suitable for Household Size
Single Unit	12 kW	Small to medium household
Two Units	23 kW	Medium to large household
Three Units	≥23 kW	Large household

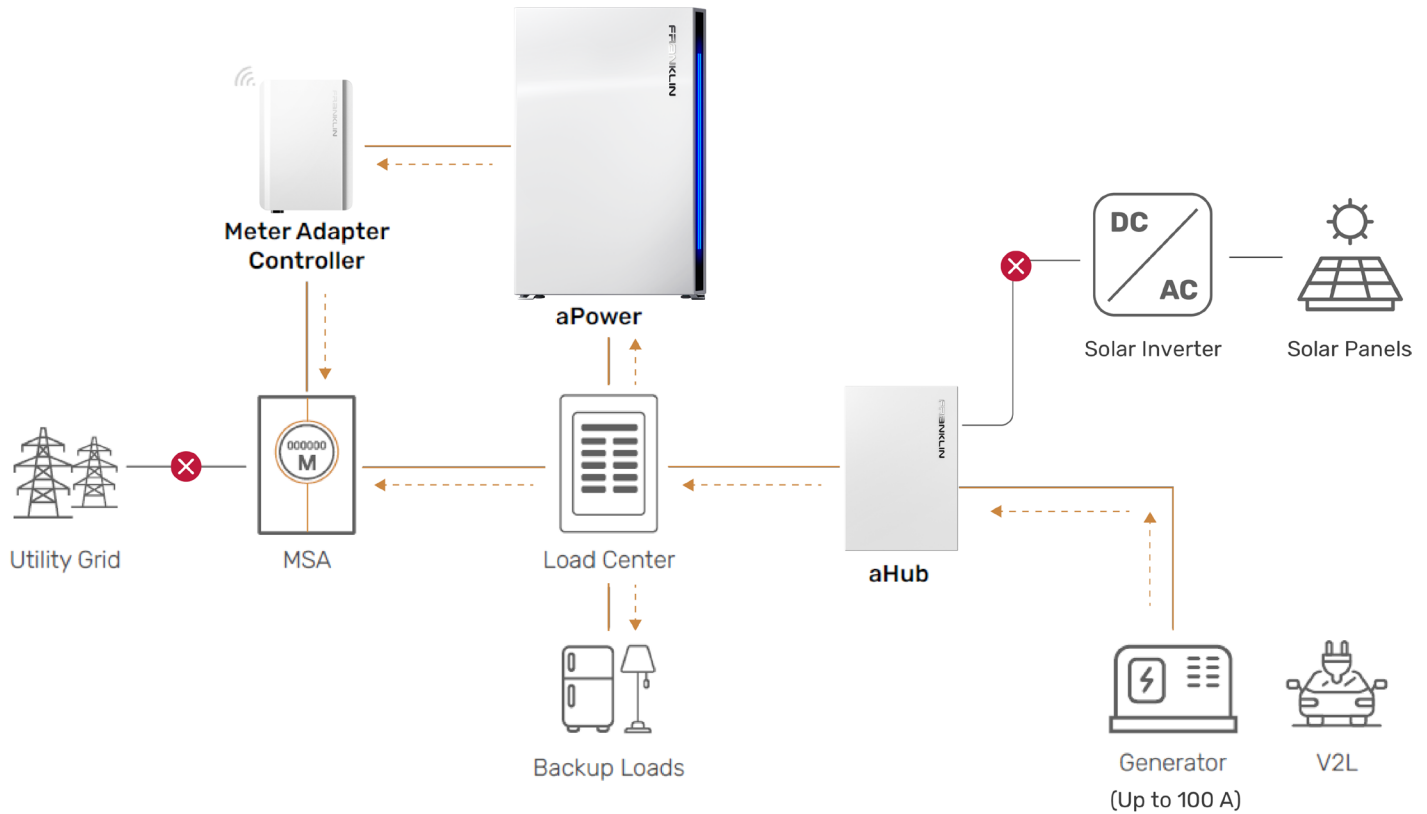
NOTE



When integrating external standby generator to augment the backup circuit, all connected PV sources must be connected via relay curtailment device input (aGate PV input, aPbox, aHub).

Generator Integration with aHub

The aHub provides a dedicated generator input branch circuit at Port 4 for connecting a third-party generator. This port supports 240 Vac generator access and enables automatic or manual generator start/stop control. Both control modes are accessible remotely via the FranklinWH App.



WARNING

When integrating with a generator, all PV AC strings in backup side shall be connected to the PV ports on the aGate and/or aHub, which have a built-in PV relay.

Direct connection to the electrical panel via split CTs is not permitted, as the PV AC output cannot be isolated during off-grid generator startup, and the system does not allow the generator and PV AC to run simultaneously. When the generator or V2L is running, the PV relay opens to disconnect the PV AC strings from the system.

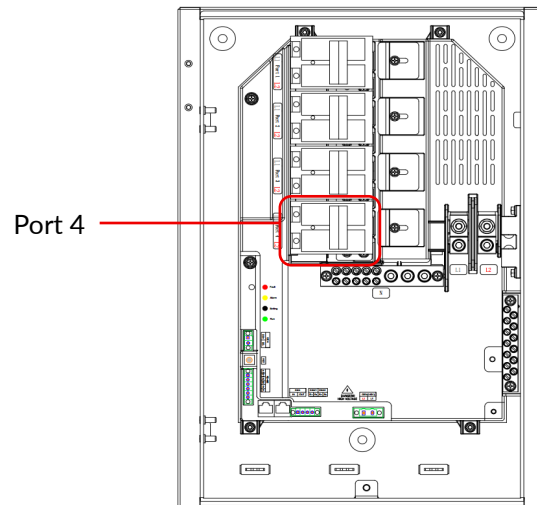
Generator Breaker Installation

Install generator breakers for Ports 4 per local laws, regulations, standards, and National Electrical Code (NEC). These breakers must be ordered separately. Refer to [Appendix 2](#).

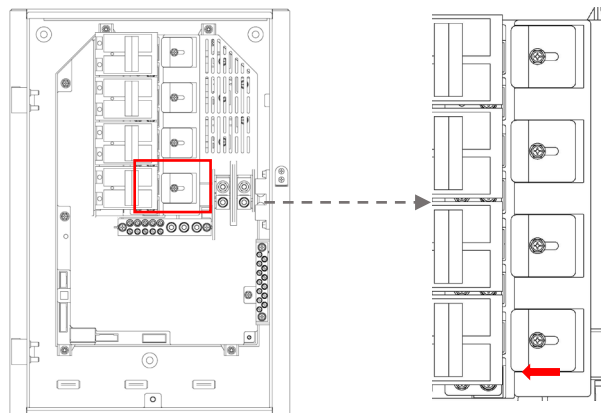


WARNING: Before installation, make sure that the aHub is de-energized and the upstream and downstream switches are disconnected and padlocked during installation.

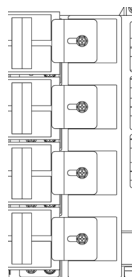
- 1) Install the Generator/V2L breaker at Port 4.



- 2) Use a Phillips screwdriver to slightly loosen the M4x10 screw on the breaker clamp and slide the clamp left.



- 3) Using a Phillips head torque screwdriver, tighten the M4 screw to 1.03 lbf·ft (1.4 N·m).



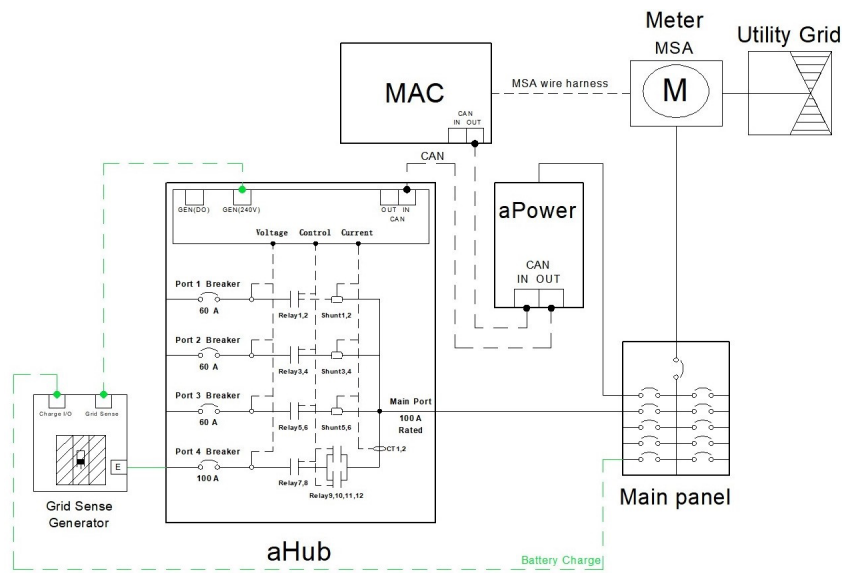
NOTE

- The non-relay-controlled PV in the system must be connected via the aHub. Otherwise, the generator cannot be started successfully.
- The aHub communicates via a CAN port, which supports V2L and generator functions. Using the RS485 port will disable these functions.

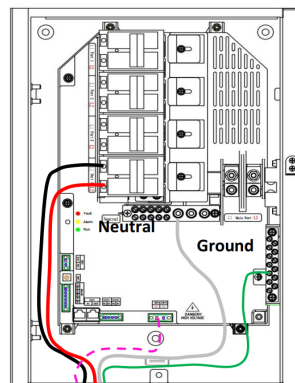
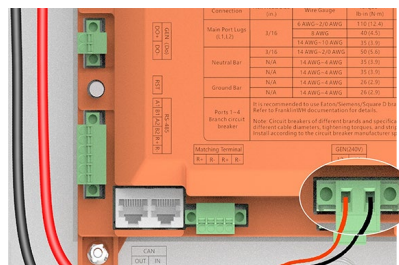
Connect the Standby Generator to the aHub**Voltage sensing generator connection**

The system connects the generator's voltage sensing interface to monitor voltage levels and automatically start and stop the generator as needed. Additionally, a charging interface ensures the generator's battery remains charged for optimal operation.

The following wiring diagram is for reference only. Refer to the generator manufacturer's instructions for specific wiring requirements.



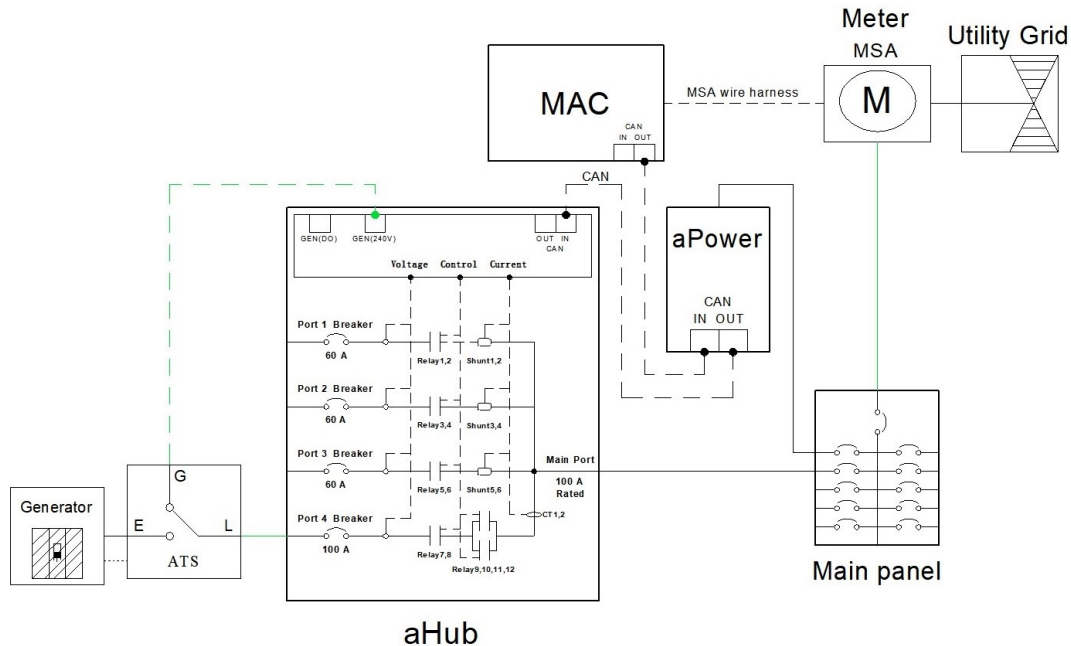
- 1) Connect the generator power output wires (E1, E2, NEU, GND) to the aHub Port 4 (L1, L2, Neutral & GND).
- 2) Connect the two 240 Vac pins to the voltage sensing port on the generator, as shown in the diagram below. Please select cables with a gauge of 18 AWG to 12 AWG, in accordance with local regulations.

**240 Vac Voltage sensing**

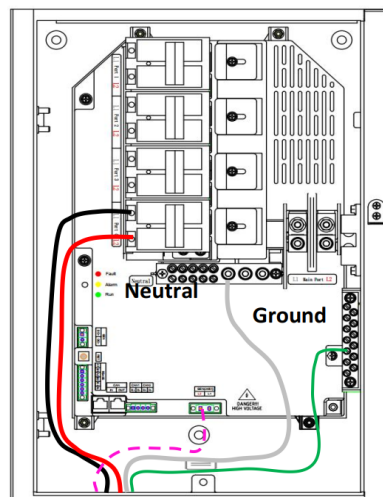
- 3) Connect the battery charging terminal on the generator to the wire from a branch circuit of the main panel.

ATS generator connection

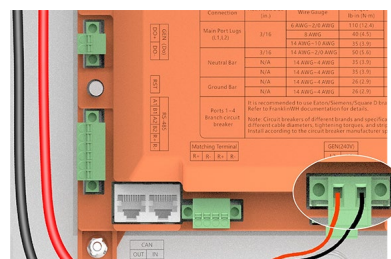
The FranklinWH System controls generator start/stop by monitoring the backup bus AC voltage, enabling automatic grid-to-generator transfer without power interruption.



- 1) Remove the ATS (Automatic Transfer Switch) output wires from the main panel. And connect the ATS output wires to aHub Port 4 (L1, L2, Neutral & GND).
- 2) Remove the grid input cables from the ATS. And connect the grid input cables to the grid input terminals in the main panel.
- 3) Connect the two 240 Vac pins to the ATS main power input port (see below). Use 18–12 AWG cables, complying with local regulations.

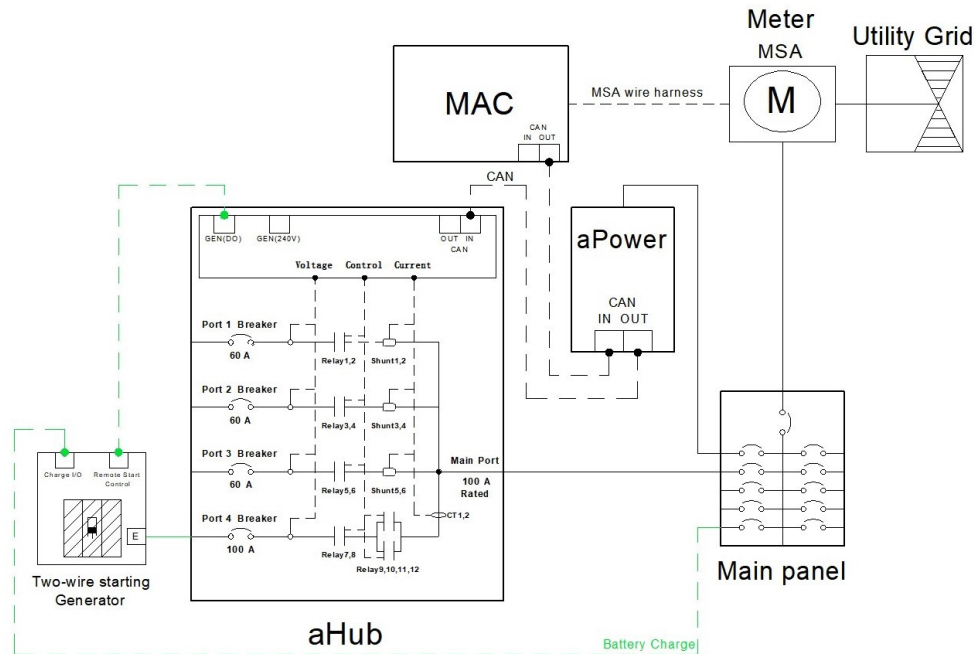


240 Vac ATS Generator

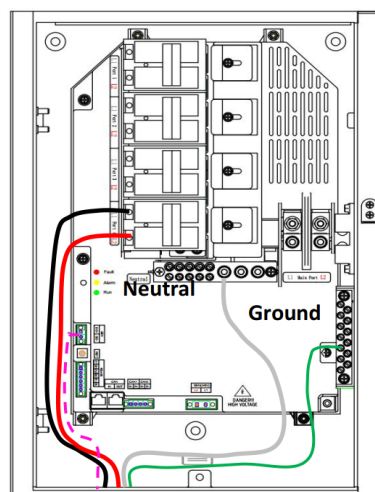


Dry Contact Generator Connection

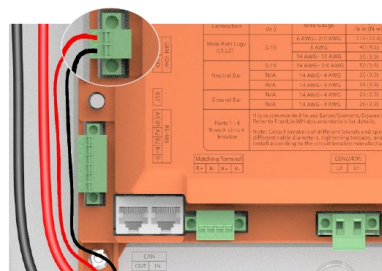
The system uses dry contact signals to connect two-wire generators, allowing for automatic control of the generator. The system also includes a charging interface to prevent the battery from being depleted.



- 1) Connect the generator power output wires (E1, E2, NEU, GND) to the aHub Port 4 (L1, L2, Neutral & GND).
- 2) Connect the two DO pins to the two-wire starting interface on the generator, as shown in the diagram below. Select cables with a gauge of 18 AWG to 12 AWG, in accordance with local regulations.
- 3) Connect the battery charge terminal in the generator to the wire from a branch circuit of the main panel.



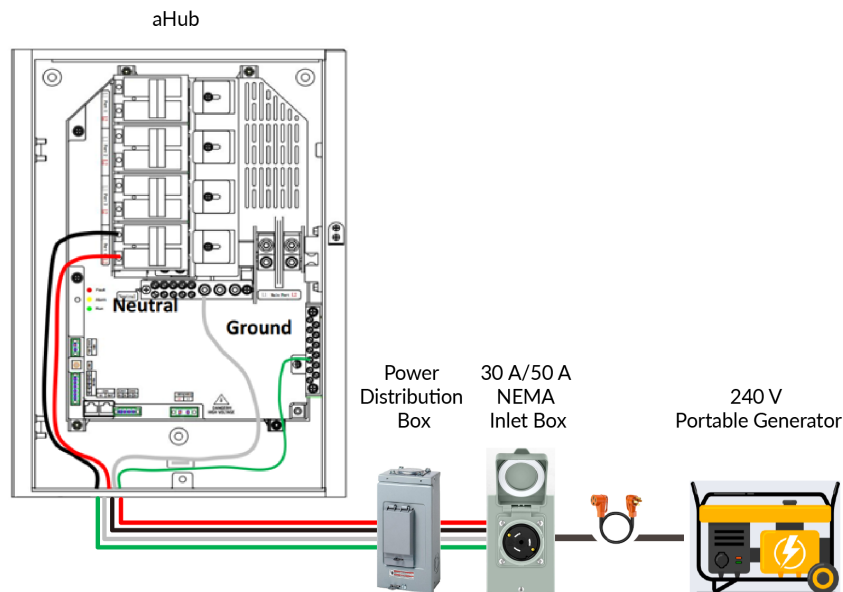
Dry Contact Generator



Connect the Portable Generator to the aHub

Portable generators are intended for manual start only. Installation and wiring of the portable generator and its NEMA inlet box must be performed by a qualified electrician in accordance with NEC requirements. Homeowners simply need to plug in the portable generator cord and then start/stop the generator via recoil cord or electric start button as needed.

- 1) Install a relevant NEMA inlet box according to the manufacturer's instructions.
- 2) Connect the NEMA inlet box (X, Y, W, G) to the corresponding aHub generator input terminals (L1, L2, Neutral & GND).
- 3) Select proper generator cord to connect the portable generator and the NEMA inlet as needed.



NOTE

- Supports portable generators with 240 V output.
- Follow all guidelines in the portable generator documentation to prevent equipment damage or personal injury.
- It is important to keep the home loads to an absolute minimum when using a portable generator. Proper communication with the homeowner is essential to ensure realistic expectations.
- Do not interchange the NEMA inlet box of the portable generator with that of the V2L. For V2L-related wiring and usage, consult your dealer or refer to the V2L instruction manual.

Connect the Electric Vehicle (EV) to the aHub

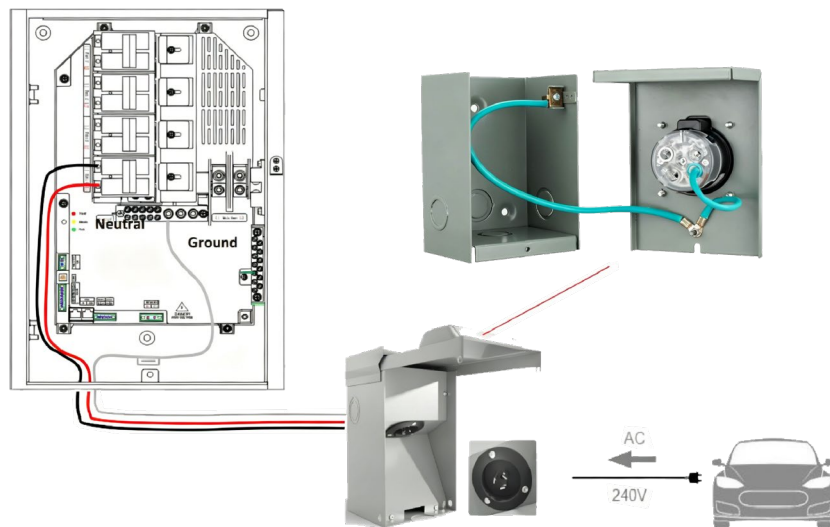
aHub Port 4 only supports 240 Vac EV access. Confirm the voltage output from the EVPE outlet in the EV Owner's Manual. The EVPE outlet features an integrated GFCI indicator and trip reset.

NOTE

- The non-relay-controlled PV in the system must be connected via the aHub. Otherwise, EV charging cannot be started.
-  The aHub communicates via a CAN port, which supports V2L and generator functions. Using the RS485 port will disable these functions.
- NEC guidance (625.60, 250.34, 250.20) for vehicle-mounted generators with GFCI receptacles connected to utilization equipment (V2L inlet connection) through cord-and-plug connections should not be required to be connected to a grounding electrode.

Connect the EV power output wires to the aHub Port 4 (L1, L2, Neutral), as shown below. To simplify the aHub connection for the EV, the installer may choose an appropriate inlet box and cables for easy connection.

Note: When connecting to an EV, separate the outlet ground from the inlet box. Do not interchange the NEMA inlet box of the V2L with that of the portable generator.

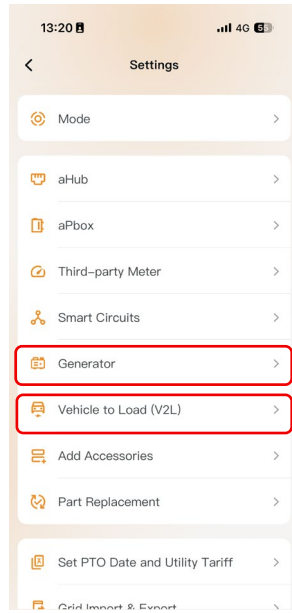


Configure the Generator/V2L using the FranklinWH App

After the installation is complete, set up the generator/V2L parameters and operation mode based on the homeowner's requirements.

In the FranklinWH App, go to **Settings**, select **Generator** or **Vehicle to Load (V2L)**, then follow the on-screen prompts to complete the configuration.

Scan the QR code to access the **FranklinWH Commissioning Guide** for detailed instructions.



Commissioning Guide for aGate

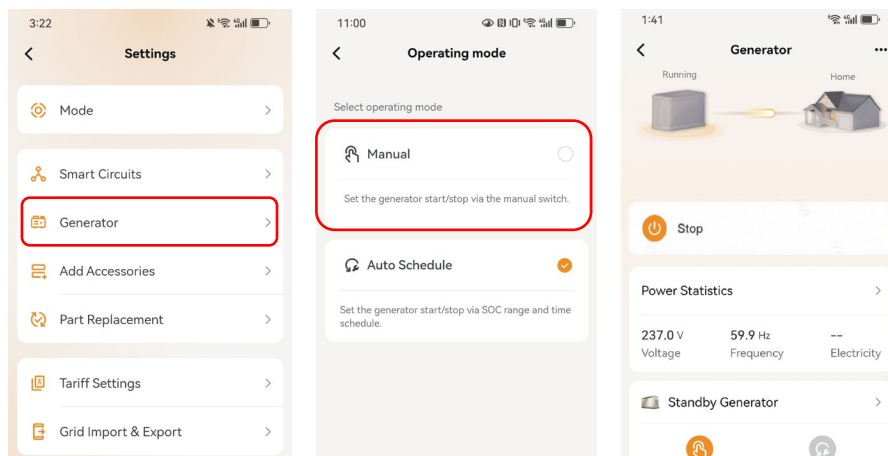


Commissioning Guide for MAC

Test the Generator Function using the FranklinWH App

After the installation and configuration, perform integration testing to validate the system and generator's functionality.

- 1) Switch to off-grid mode in the FranklinWH App.
- 2) Go to **Settings**, select **Generator** > **Manual**.
- 3) Tap **Run** or **Stop** to verify that the generator responds correctly to both start and stop commands.
- 4) Scan the above QR codes to access the **FranklinWH Commissioning Guide** for detailed instructions.



Appendix 1: Recommended Generator Breakers on aGate

S/N	Model	Current	Description
1	CSR2100	100 A	Eaton#Circuit Breaker; 2-Pole, 25 kAIC, 100 A/240 V
2	CSR2125N	125 A	Eaton#Circuit Breaker; 2-Pole, 25 kAIC, 125 A/240 V
3	CSR2150N	150 A	Eaton#Circuit Breaker; 2-Pole, 25 kAIC, 150 A/240 V
4	CSR2175N	175 A	Eaton#Circuit Breaker; 2-Pole, 25 kAIC, 175 A/240 V
5	CSR2200N	200 A	Eaton#Circuit Breaker; 2-Pole, 25 kAIC, 200 A/240 V
6	BW2100	100 A	Eaton#Circuit Breaker; 2-Pole, 10 kAIC, 100 A/240 V
7	BW2125	125 A	Eaton#Circuit Breaker; 2-Pole, 10 kAIC, 125 A/240 V
8	BW2150	150 A	Eaton#Circuit Breaker; 2-Pole, 10 kAIC, 150 A/240 V
9	BW2175	175 A	Eaton#Circuit Breaker; 2-Pole, 10 kAIC, 175 A/240 V
10	BW2200	200 A	Eaton#Circuit Breaker; 2-Pole, 10 kAIC, 200 A/240 V
11	BWH2100N	100 A	Eaton#Circuit Breaker; 2-Pole, 25 kAIC, 100 A/240 V
12	BWH2125N	125 A	Eaton#Circuit Breaker; 2-Pole, 25 kAIC, 125 A/240 V
13	BWH2150N	150 A	Eaton#Circuit Breaker; 2-Pole, 25 kAIC, 150 A/240 V
14	BWH2175N	175 A	Eaton#Circuit Breaker; 2-Pole, 25 kAIC, 175 A/240 V
15	BWH2200N	200 A	Eaton#Circuit Breaker; 2-Pole, 25 kAIC, 200 A/240 V

NOTE: The generator breaker may be installed outside the aGate depending on the site condition.

Appendix 2: Recommended Generator Breakers on aHub

S/N	Description	Manufacturer & Model 1	Manufacturer & Model 2	Manufacturer & Model 3
1	2-Pole, 10 kAIC 15 A/240 V	Eaton #BR215	Siemens #Q215	Schneider #HOM215
2	2-Pole, 10 kAIC 20 A/240 V	Eaton #BR220	Siemens #Q220	Schneider #HOM220
3	2-Pole, 10 kAIC 30 A/240 V	Eaton #BR230	Siemens #Q230	Schneider #HOM230
4	2-Pole, 10 kAIC 40A/240 V	Eaton #BR240	Siemens #Q240	Schneider #HOM240
5	2-Pole, 10 kAIC 50 A/240 V	Eaton #BR250	Siemens #Q250	Schneider #HOM250
6	2-Pole, 10 kAIC 60A/240 V	Eaton #BR260	Siemens #Q260	Schneider #HOM260
7	2-Pole, 10 kAIC 70 A/240 V	Eaton #BR270	Siemens #Q270	Schneider #HOM270
8	2-Pole, 10 kAIC 80 A/240 V	Eaton #BR280	Siemens #Q280	Schneider #HOM280
9	2-Pole, 10 kAIC 90 A/240 V	Eaton #BR290	Siemens #Q290	Schneider #HOM290
10	2-Pole, 10 kAIC 100 A/240 V	Eaton #BR2100	Siemens #Q2100	Schneider #HOM2100

Appendix 3: Wiring

Terminal Name	Wire Gauge	Tool	Strip Length	Torque
Single-lug terminal	4 AWG–250 MCM CU/AL	8 mm hex wrench 5/8-18 UNF hex screw	1 in.	3/0 AWG–250 MCM 275LB-IN 4 AWG–2/0 AWG 110LB-IN
Neutral bar terminal lug	4 AWG–250 MCM CU/AL	8 mm hex wrench 5/8-18 UNF hex screw	1 in.	3/0 AWG–250 MCM 275 LB-IN 4 AWG–2/0 AWG 110 LB-IN
	14 AWG–2/0 AWG CU/AL	5 mm hex wrench 7/16-20 UNF hex screw	1 in.	3 AWG–2/0 AWG 110 LB-IN 14 AWG–4 AWG 35 LB-IN
	14 AWG–4 AWG CU/AL	Straight screwdriver 1/4-28 UNF	0.6 in.	14 AWG–4 AWG 26 LB-IN
Ground bar terminal lug	14 AWG–2/0 AWG CU/AL	5 mm hex wrench 7/16-20 UNF hex screw	0.8 in.	3 AWG–2/0 AWG 110 LB-IN 14 AWG–4 AWG 35 LB-IN
	14 AWG–4 AWG CU/AL	Straight screwdriver 1/4-28 UNF	0.4 in./0.8 in.	14 AWG–4 AWG 26 LB-IN

Appendix 4: Revision History

REVISION	DATE	DESCRIPTION
V1.1	July 10, 2026	Added portable generator/V2L integration. Added support for aHub integrated generator solution. Added generator testing instructions.
V1.0	March 20, 2024	Initial release