FRANKLINWH

aHub Installation and Operations Manual

Version 1.0

aHub, SKU: ACCY-AHUBV1-US

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

MAC 1, SKU: MAC-R1V1-US

aPower 2, SKU: APR-10K15V2-US

aPower S, SKU: APRS-10K15V1-US

Jan 22, 2026

Please visit *www.franklinwh.com/support* for the latest FranklinWH documents.

Please read this document carefully to ensure the best reliability of the product and your warranty eligibility. For further information about warranty, please refer to the ***FranklinWH System Limited Warranty***.

This document is intended for use by professional installation and maintenance service providers only and no statements, information or recommendations in this document constitute any express or implied warranty.

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

The FranklinWH aHub enhances home energy distribution by supporting multiple energy inputs and integrating household loads, controlled by the FranklinWH Meter Adapter Controller 1 (MAC 1) or FranklinWH aGate X.

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.

FCC Supplier's Declaration of Conformity

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

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 wastes. Please refer to your local laws and regulations regarding disposal.

CONTENT

Safety Statements

Important Information

The FranklinWH aHub is an electrical device. Please read this entire document to ensure proper use. Please strictly follow the safety instructions described in this manual during operation, otherwise it may result in equipment malfunction, electrical shock, serious injury or death, and void the warranty.

Safety Symbols

This Manual contains the following safety symbols.

	**DANGER**: This indicates a hazardous situation which, if not avoided, may result in death or serious injury.
	**WARNING**: This indicates a situation where failure to follow instructions may be a safety hazard or cause equipment malfunction. Use extreme caution and follow instructions carefully.
	**NOTE** This indicates information that is important for optimal system operation. Closely follow instructions.
	**ELECTRONIC DEVICE: DO NOT THROW AWAY!** All scrapped products (including their internal chemicals and electrical materials) should not be disposed of with household wastes. Please refer to your local laws and regulations regarding disposal.

** The DANGER, WARNING, and NOTE alerts are supplemental to the safety instructions and are not exhaustive.*

Safety Instructions

General Information

	**DANGER:** The installation, wiring, maintenance, transportation, and handling of the aHub should follow local laws, regulations and standards, and the Safety Instructions in this Guide serve as supplementation to the laws, regulations and standards.
	**DANGER:** The aHub is electrical equipment that, when used improperly, can present a risk of electrical shock and fire, and misuse may void the warranty. Only FranklinWH certified and qualified electricians should install, maintain or replace the equipment or wiring. Workers must wear personal protective equipment (PPE) during operation.
	**DANGER:** The aHub should be installed away from heating equipment, or any source of heat and/or fire.
	**DANGER:** It is strictly forbidden to install, maintain or handle aHub units outdoors during bad weather such as thunder, rain, snow and high winds.
	**DANGER:** It is strictly forbidden to work on or operate an aHub alone. For safety, make sure that there is someone around you who can help.
	**DANGER:** During electrical maintenance, turn off Vehicle to Load (V2L) and generator output (if applicable). Disable the auto start/stop function on standby generators to prevent accidental startup and avoid safety hazards like electric shock or short circuits.
	**DANGER:** To prevent misoperation, ensure that the upstream and downstream switches are disconnected and padlocked during installation or maintenance.
	**WARNING:** During the transport and handling of an aHub, extreme care is required to avoid dropping, bumping, stomping, or inverting the equipment.
	**WARNING:** When installing and maintaining an aHub, avoid any foreign objects being inserted or dropped into the enclosure.
	**WARNING:** Only use parts or accessories purchased from FranklinWH or a FranklinWH-certified party.
	**WARNING:** Do not paint any part of the aHub unless the paint surface of the equipment housing is accidentally damaged during transport, installation or maintenance. The damaged part can be repaired with paint or topcoat of the same color.

	**WARNING:** If any equipment failure occurs, please contact your installer or after-sales service provider for support. Do not attempt to take apart, repair and/or modify an aHub without the authorization of FranklinWH. Otherwise, it may lead to safety hazards and void your warranty.
	**WARNING:** Do not use an aHub if there is functional or cosmetic damage noticed after unboxing (except for slight paint damage). Contact after-sales service for support.

During the installation, use, storage, and transport of equipment:

	**DANGER:** Keep away from flammable and explosive materials.
	**WARNING:** Install in dry, cool and well-ventilated location for satisfactory performance.
	**WARNING:** Install away from standing water or from areas that can pool water.
	**WARNING:** Install where there is no direct exposure to sunshine, rain or snow.
	**WARNING:** Keep way from water sources including downspouts, sprinklers, faucets and liquid containers. The aHub installation site should have no water sources above it or in the vicinity, including water pipes, shower, faucet, and containers of liquids.
	**WARNING:** This product can expose you to lead, which is known to the State of California to cause cancer, birth defects or other reproductive harm. (For more information go to www.p65warnings.ca.gov).

Warranty Statement

To meet warranty requirements, FranklinWH aHub products must be installed and operated properly according to the instructions in related FranklinWH documents.

To secure the full warranty, the FranklinWH aHub products must be reliably connected to FranklinWH System to access remote services provided by FranklinWH.

Please visit us at *www.franklinwh.com/support* to learn more about the warranty.

Service and Maintenance

Service

- Keep the equipment away from leaves or other foreign materials, especially keep objects from the top of the unit and keep the space clear between the unit and the back wall.
- Keep the equipment away from direct sunlight.
- Keep all equipment in an environment with acceptable temperature and humidity.
- Clean the equipment surface using a soft cloth. If water is needed, please make sure the cloth is slightly damp (water only) and the equipment is completely de-energized.
- Don't block the vents.
- Keep the equipment away from flammable, explosive, and/or poisonous materials.
- Keep the equipment operating within the allowed power range and avoid overloading.
- Make sure all cables are wired reliably and all connectors are free of stress.
- Keep the equipment away from hazardous zones and potential risks.
- A nearby smoke detector is recommended if the equipment is installed indoors.

Maintenance

- Please check the running status of your equipment on your mobile app. If any alarm is found, please contact the qualified service group.
- Never attempt to repair the system by yourself. Contact professionals certified by FranklinWH.

Product Overview

The aHub is designed to be used in the FranklinWH System. The aHub enhances home energy distribution by supporting multiple energy inputs and household load integration. Managed by the FranklinWH Meter Adapter Controller 1 (MAC 1) or aGate, it enables advanced energy dispatch strategies and intelligent resource management.

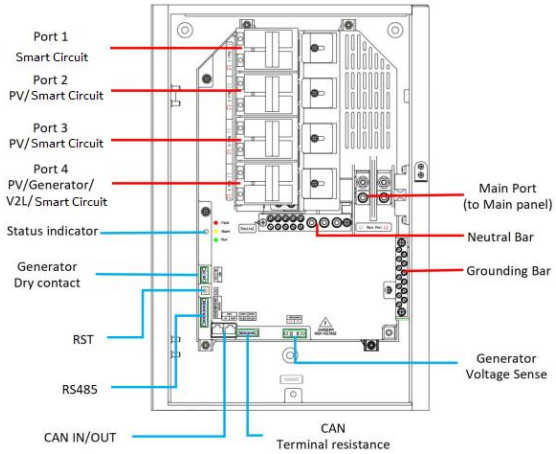
Components and Features

The aHub includes the following components and features.

After installation, ensure the RST button is released and the Status indicator LED is illuminated. If the system is at fault, press the RST button to perform a system reset.

Power ON

Power OFF



- **Solar Optimization:** Accommodates up to three AC-coupled PV arrays with 24 kW total capacity, maximizing renewable energy utilization for Net Energy Metering (NEM) applications and retrofit installations.
- **Smart Circuits Management:** Configurable circuit architecture supports up to 4×240 V or 8×120 V circuits with programmable scheduling and remote control via the FranklinWH App, enabling customized energy consumption patterns.
- **Generator Compatibility:** the aHub supports 240 V standby and portable generators connections for reliable backup during prolonged outages.
- **Vehicle-to-Load (V2L) Compatibility:** Leverages electric vehicles with V2L capability as alternative power sources for enhanced flexibility.

Specifications

Electrical Specifications	
Nominal Voltage	120 / 240 Vac, split
Frequency	60 Hz
Port 1	Smart Circuit
Port 2	PV/Smart Circuit
Port 3	PV/ Smart Circuit
Port 4	Generator/V2L/PV/Smart Circuit
Overcurrent Protection Device	Main Port: 125 A Port 1: 60 A Port 2: 60 A Port 3: 60 A Port 4: 100 A
Rated Current	Main Port: 100 A Port 1: 48 A Port 2: 48 A Port 3: 48 A Port 4: 80 A
Warranty	15-year
Mechanical Specifications	
Dimensions (W x H x D)	13.0 in. x 18.9 in. x 5.1 in. (330 mm x 480 mm x 130 mm)
Weight	14 lbs (6.5 kg)
Mounting	Wall mount
Environmental Specifications	
Operating Temperature Range	-4° F to 122° F (-20° C to 50° C)
Storage Temperature Range	-22° F to 140° F (-30° C to 60° C)
Operating Humidity (RH)	Up to 100% RH, condensing
Maximum Altitude	9843 ft (3000 m)
Enclosure Type	NEMA 3R
Compliance Information	
Compliance	UL1741, UL1741 PCS, UL3141 CSA C22.2 No.107.1-16, FCC PART15 CLASS B

COMPATIBILITY: The aHub is compatible with the FranklinWH Meter Adapter Controller, aGate 1.3, aGate 1.3.1, aPower 2, and aPower S.

Application

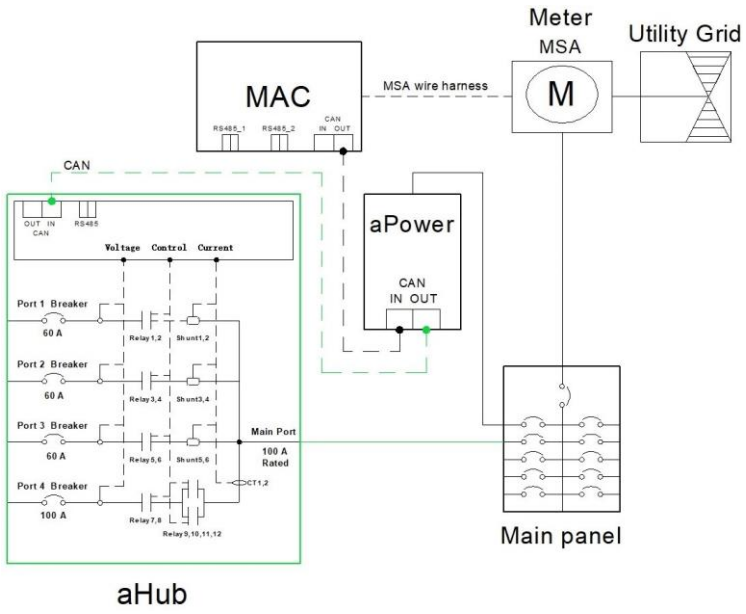
aHub with MAC 1

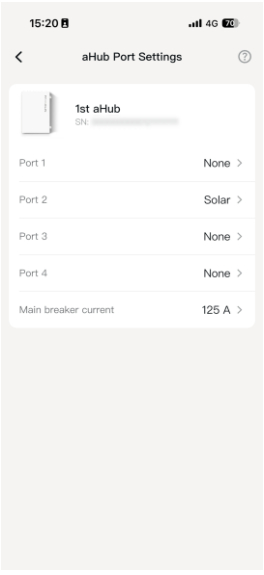
WARNING: Before connecting the generator or EV to the aHub, make sure the non-relay-controlled PV system is connected to the aHub. If the PV system is connected to the main panel, there is a risk of damaging the generator or EV, so this connection method is prohibited.

Scenario A: aHub Connection to Line-Side Main Panel

The aHub connects to the grid via the main panel.

Figure 1: aHub Communications via CAN Port





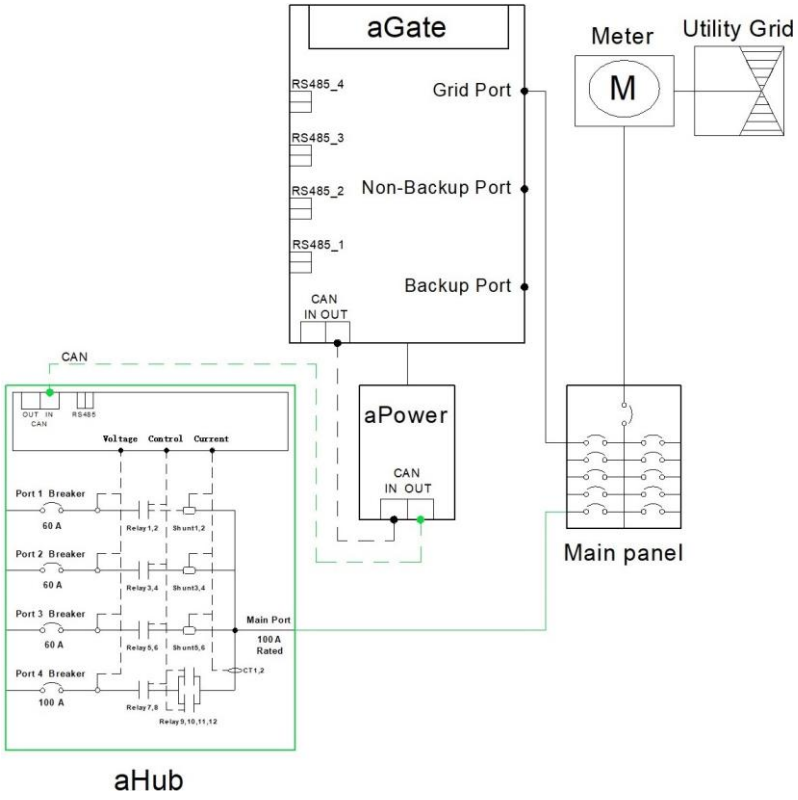
aHub with aGate

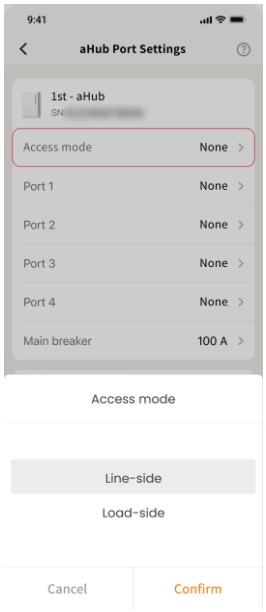
WARNING: When an aHub and an aGate are combined, the generator and EV are only allowed to connect to the aGate, not the aHub.

Scenario B: aHub Connection to Line-Side Main Panel

The aGate and aHub are connected to the grid via the main panel.

Figure 2: aHub Communications via CAN Port

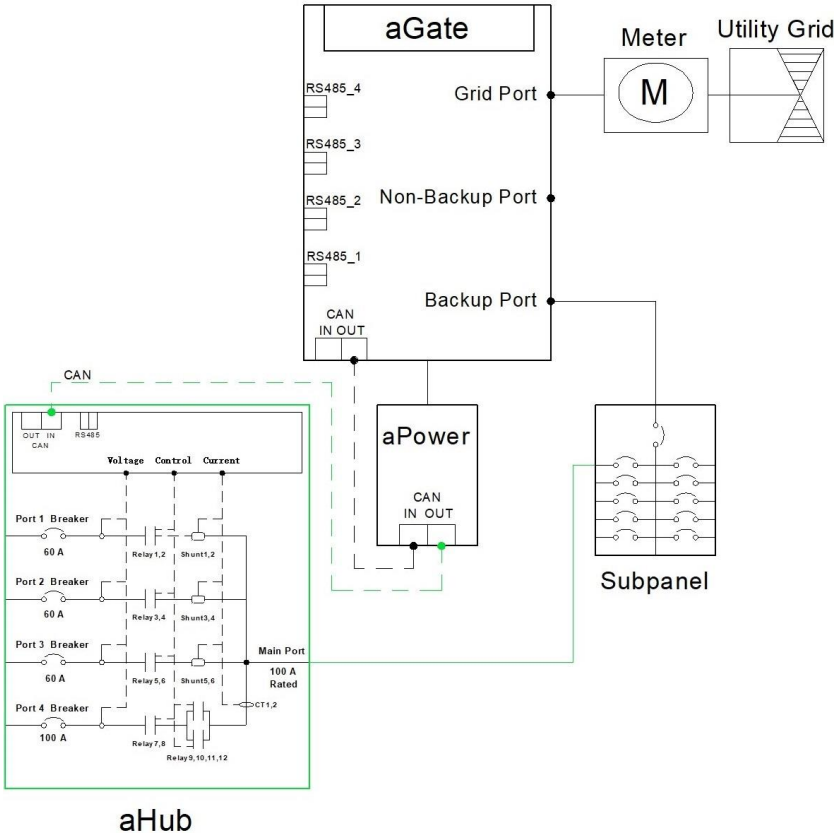


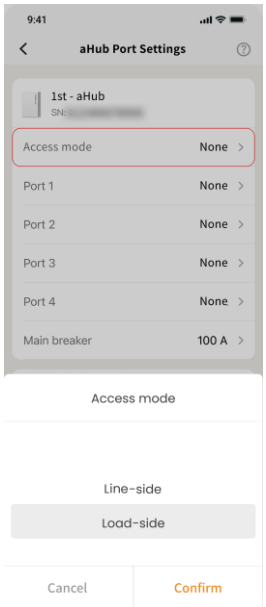


Scenario C: aHub Connection to the aGate Backup Port Subpanel

The aGate is directly connected to the utility grid. The aHub is connected to the backup port of the aGate via the subpanel.

Figure 3: aHub Communications via CAN Port

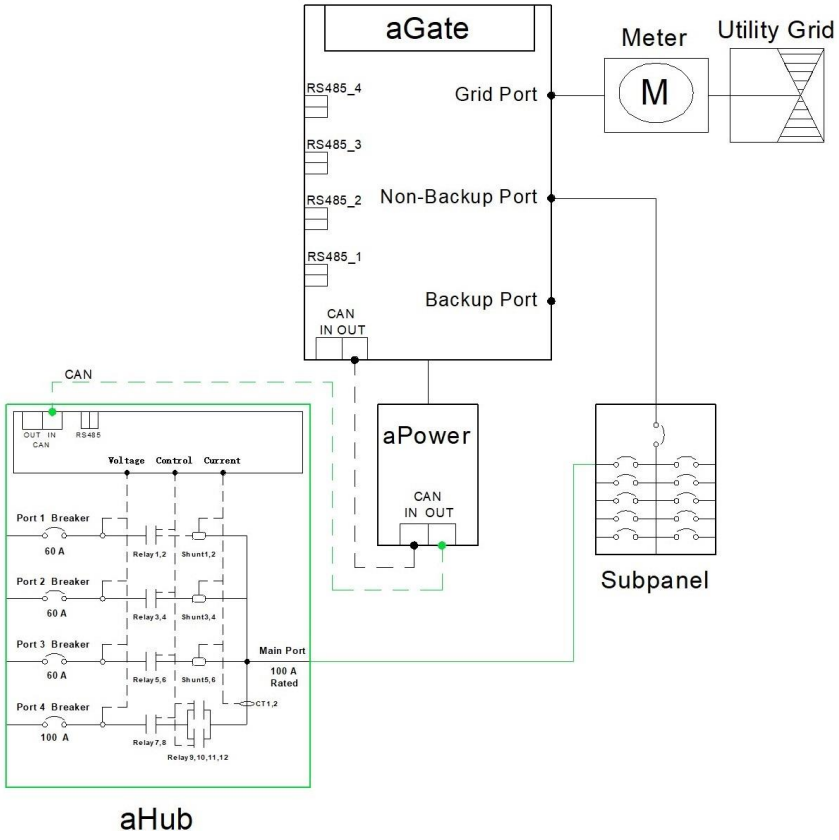


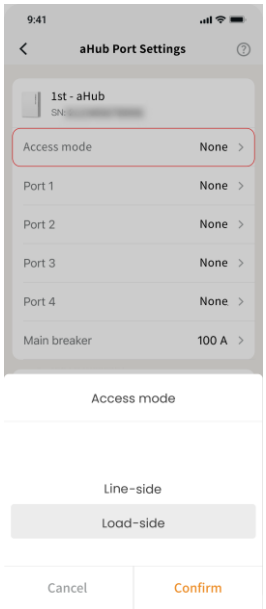


Scenario D: aHub Connection to the aGate Non-Backup Port Subpanel

The aGate is directly connected to the utility grid. The aHub is connected to the non-backup port of the aGate via the subpanel.

Figure 4: aHub Communications via CAN Port





aHub Installation

Preparation

NOTE

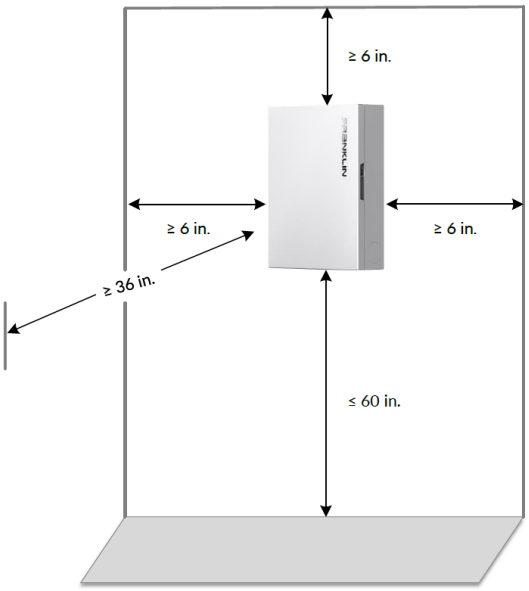
Since the aHub requires an AC power connection to operate and complete commissioning, it is recommended for on-grid installations to happen with the grid connected. For off grid installations, normal commissioning and updating must be completed before aHub commissioning.

Site Planning

For a wall-mounted aHub, there should be a minimum clearance of 6 in. (0.15 m) from the top of aHub to the ceiling, and 36 in. (0.91 m) of clearance in front of the aHub.

The maximum distance between the bottom of the aHub and the ground shall be less than or equal to 60 in. (1.52 m). Additionally, a minimum clearance of 6 in. (0.15 m) should be provided on both sides of the aHub.

Note: *If there are electrical conduit cables below the left or right side of the aHub, or nearby equipment may obstruct its operation, ensure additional space is provided as needed.*



Tools Needed

Ensure that you have the following before installation:

- **Personal protective equipment (PPE) (goggles, gloves, protective shoes, anti-dust respirator, etc.) for personal safety.**
- **Drill.**
  - Use 5/32" Brad Point Bits or 5/32" Auger bits to drill pilot holes in wooden walls.
  - Use 1/2", 3/4", 1", 1-1/2", 2" sized wood bits to create holes in wooden walls.
  - Use 1/2", 3/4", 1", 1-1/2", 2" sized hole saw bits to create holes in metal walls.
- **Hammer drill.**
  - Use 1/2", 3/8" Masonry bits to create pilot holes on concrete or brick walls.
  - Use 1/2″, 3/4″, 1″, 1-1/2″, 2″ Diamond core bits to create holes in concrete or brick walls.
- **Electric screwdriver and cross screw bits to tighten the fastening screws.**
- **Torque wrench and bent-handle ratchet wrench.**
  - 3/16'' inner hex screwdriver bits to fasten cables at circuit breakers and pressure connectors and to check the torque.
  - 3/16″, 1/4″ straight screwdriver bits to fasten cables at circuit breakers and connectors and to check the torque.
  - PH2, PH3 cross screwdriver bits to fasten cables at circuit breakers and to check the torque.
  - 6″ ratchet extension.
- **Flat head screwdriver (1/8″ x 4″, 1/4″ x 4″) to fasten signal terminals.**
- **Phillips head screwdrivers (PH#2 x 4″, PH #3 x 4″) to tighten fasteners.**
- **Utility knife.**

  Used for unboxing.
- **Wiring tools.**

  Wire stripper, Wire cutter, Utility wire shear.
- **Stud finder.**

  Detects the location of the wires in the wall to prevent short circuits before drilling.
- **Multimeter.**

  Used to measure the voltage and current.
- **Work light.**

  For lighting during power-off.
- **Level.**

  Used to install the aHub level.
- **Marker.**

  Marks the mounting hole location.
- **Camera.**

  Records the installation process.

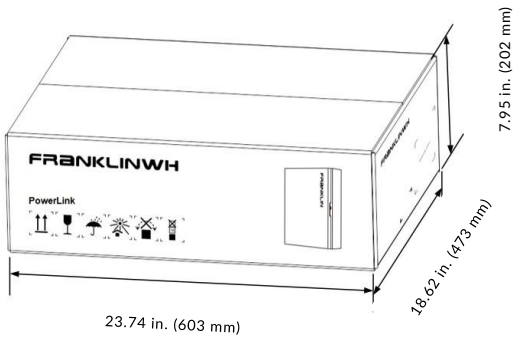
- **Deep Cut Band Saw.**

  For thin-walled steel pipe or PVC pipe cutting.
- **Knockout Tool Kit.**

  Used to enlarge the hole or to make new holes when the conduit diameter is larger than the aHub knockout hole, or if any new hole needs to be made.
- **Wooden block, size: 1.75 in. × 26.77 in. × 2.36 in. (44.4 mm × 680 mm × 60 mm).**
- **Adjustable wrench, size: 0-1.97 in. (0-50 mm).**
- **6″, 10″, 18″ pipe wrenches.**

Unboxing

Step 1 Inspect the packaging for damage.



Step 2 Use a retractable utility knife to cut open the sealing tape of the package box, with the knife blade shorter than 0.3 in. (7.62 mm) to avoid damaging the aHub case.

Step 3 Remove the box contents and check for the following items:

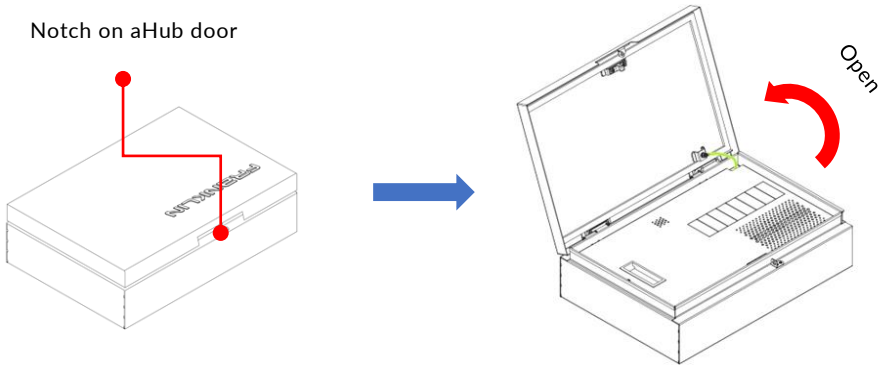
- One aHub
- One accessory bag including the following:
  i. Three 1/4” water-tight washers
  ii. Five cable ties
  iii. Labels

Installation

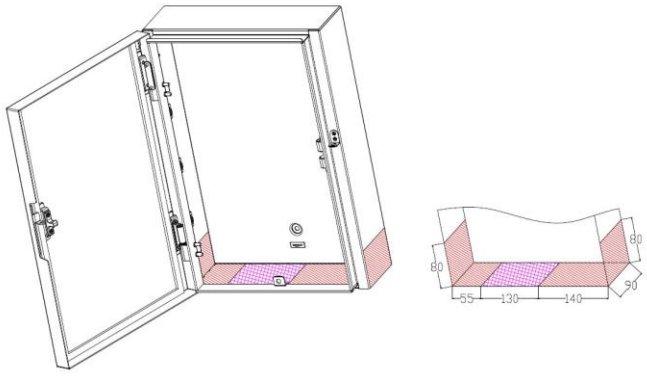
Drill Holes on the aHub

The aHub enclosure has no pre-drilled knockouts. Holes need to be drilled based on the actual wiring layout at the installation site.

Step 1 Grasp the small notch on the right side of the aHub. Lift it slowly until the door of aHub is completely open, as shown in the following figure.



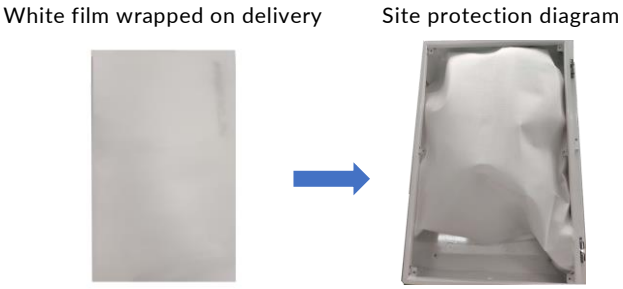
Step 2 Follow the diagram below for proper installation, ensuring the red area is for the power cable entry and the purple area for the communications cable entry. This will prevent water from entering the enclosure and causing malfunctions.



WARNING: Drill only in the specified areas. Unauthorized drilling may damage the aHub's protective features. To avoid damage to equipment, completely shield all aHub interior electrical boards and components before you drill or punch holes to prevent aluminum shavings and dust from falling into the aHub.

The home's power distribution should be made using appropriate cables and conduits in accordance with NFPA 70 and local AHJ requirements. If any new hole needs to be drilled, appropriate tools should be used to drill the hole.

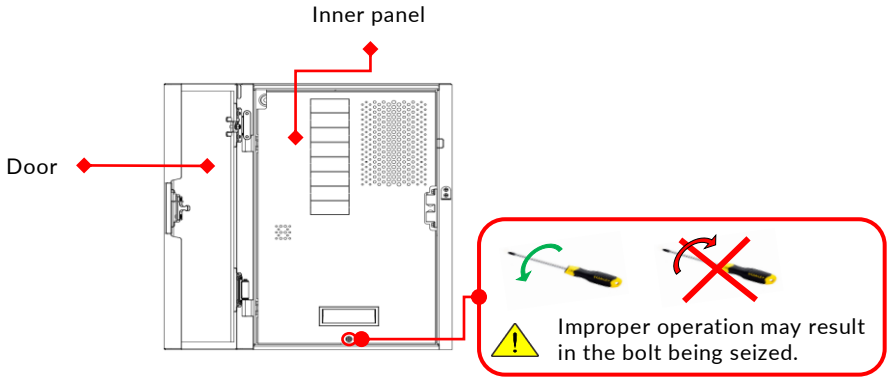
The aHub is shipped in a protective film. When drilling new holes on the aHub, unwrap the outer film and use it to protect the components inside the aHub, as shown below. Keep the film in place while drilling and punching holes. Remove all dust and debris before unwrapping the aHub for mounting.



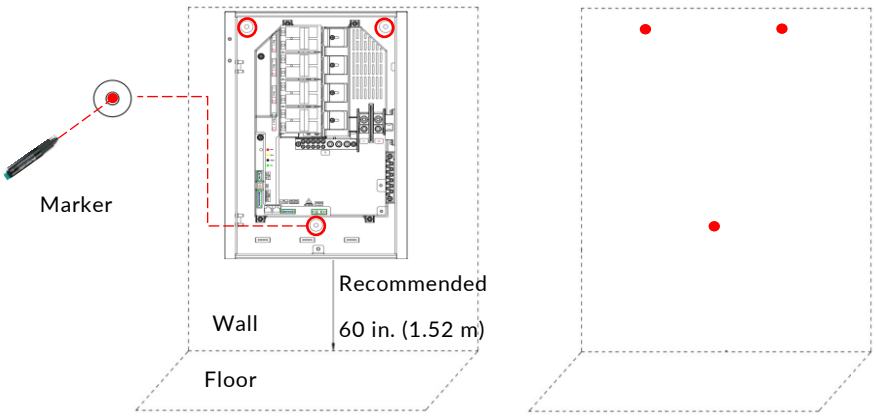
Mount the aHub on a wall

Follow the steps below to mount the aHub on a wall.

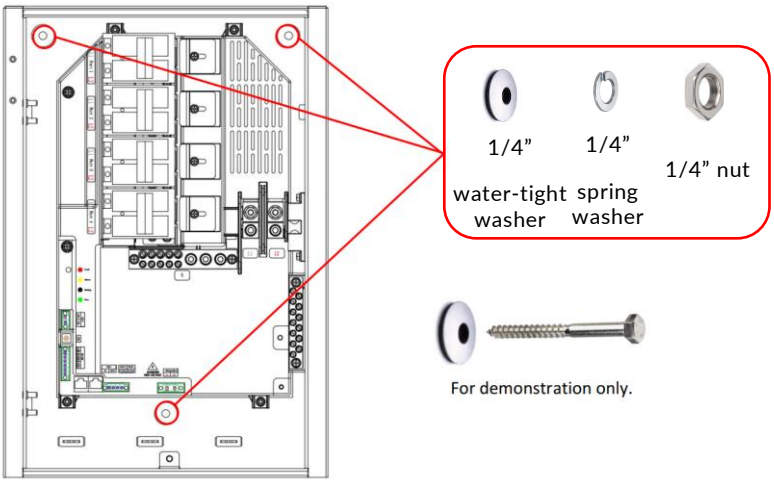
Step 1 Using a Phillips head screwdriver or an electric screwdriver with a Phillips head screw bit, loosen the M5 x 12 combination screw on the inner panel. Remove the screw, and the inner panel. Properly store the inner panel and screw for later use.



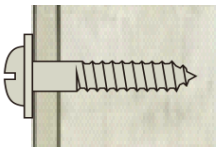
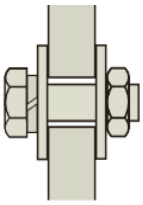
Step 2 Place the aHub at the planned installation position. Adjust the aHub to level and then mark the wall at the three holes on the aHub.



Step 3 Using an appropriate drill bit, drill holes in the wall. Mount the aHub enclosure vertically on the wall. The water-tight washers provided must be used when mounting the aHub.



See drilling details and the fasteners in the table below for more information on the hole depth and type of fasteners to use, corresponding to different type of walls.

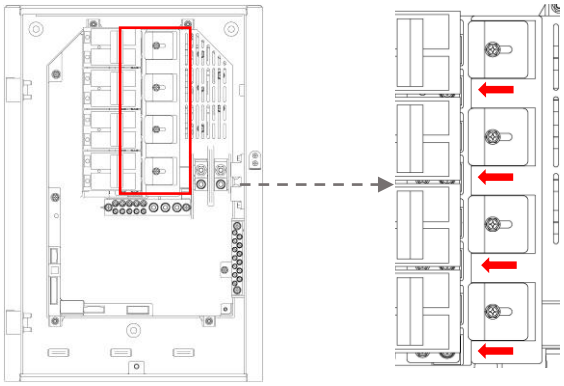
Concrete or brick	**Hole depth:** Minimum 1-1/2″ (38 mm) **Fastener**: 1/4″ (6.35 mm) water-tight washer, spring washer, and nuts	
Wooden beams	**Hole depth:** Minimum 2.5" (64 mm) **Fastener:** 1/4″ (6.35 mm) water-tight washer, wood screw with a large flat washer	
Steel beams	**Hole depth:** Through the steel beam **Fastener:** 1/4″ (6.35 mm) water-tight washer, 1/4" (6.35 mm) stainless steel hex screws with spring washer and large flat washer and hex nuts	

Install breakers as needed

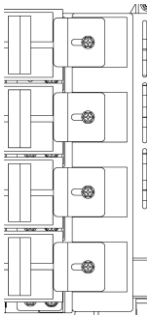
Install required breakers for Ports 1 through 4 per local laws, regulations, standards, and National Electrical Code (NEC). These breakers are not included and must be ordered separately. Refer to Appendix for compatible breakers.

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

Step 1 Use a Phillips screwdriver to slightly loosen the M4 x 10 screw on the breaker clamp and slide the clamp left.



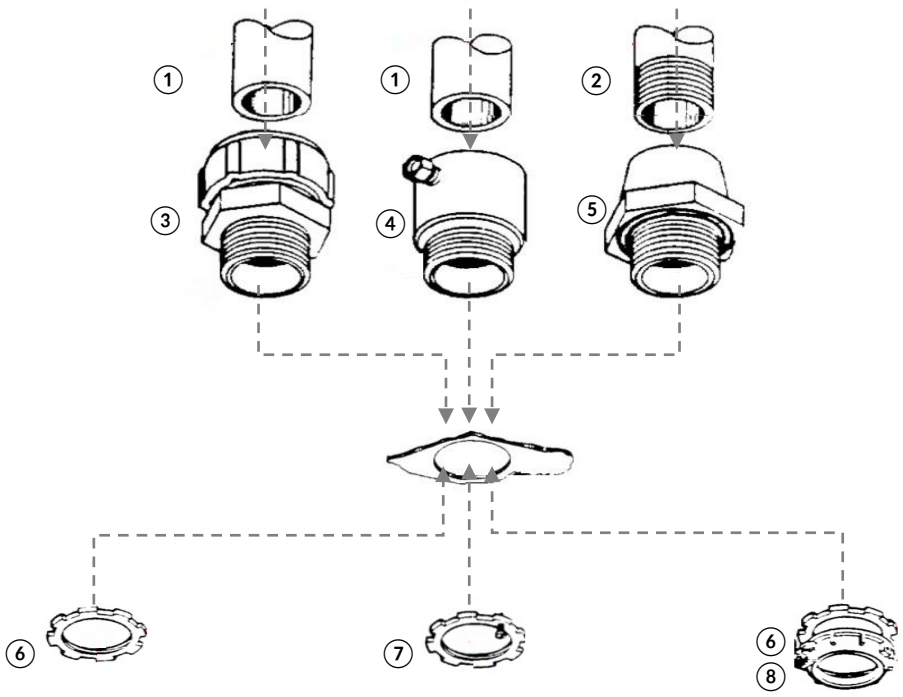
Step 2 Using a Phillips head torque screwdriver, tighten the M4 screw to 1.03 lbf·ft (1.4 Nm).



Wiring

Install Electrical Conduit

The image below shows an example of conduit and fitting for different applications. The image below shows an example of conduit and fitting for different applications.



For 120 / 208 V or 120 /240 V circuits, if there is no unpunched ring around the knockout section.

Service equipment and hazardous locations, if there is no unpunched ring around the knockout section.

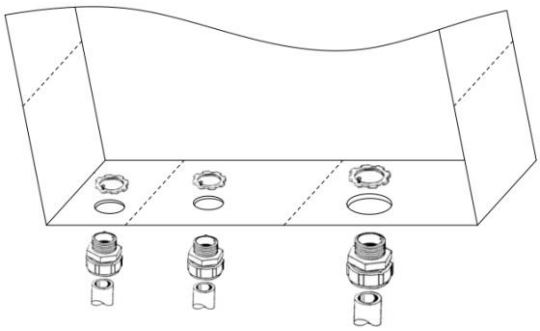
Service equipment and hazardous locations with or without unpunched rings around the knockout.

No.	Description
1	Threadless rigid metal conduit or intermediate metal conduit.
2	Threaded rigid metal conduit or intermediate metal conduit
3	Threadless fitting
4	Screw fitting
5	Sealing hub
6	Locknut
7	Bonding knockout
8	Bonding & grounding bushing

WARNING: The conduits and related materials must comply with UL 746B requirements as well as all local laws and regulations.

Metallic conduits and fittings are recommended to minimize electromagnetic interference.

Install electrical conduit of the appropriate size based on the planned on-site drilling locations.



Communications connections

NOTE

- It is recommended to install the communications cable in a conduit to avoid accidental damage and equipment failure. If the network cable and the power cable share the same conduit, use a shielded network cable (RJ45 cable end with metal connector).
- Before connecting the communications cable, use a network cable tester to ensure that the cable contact is error-free.
- Before establishing system communications connections, the MAC 1 or aGate must be installed first. There is no specific order required for the aHub and aPower.

Establish communications between the MAC, aHub, and aPower

Use a minimum CAT5 network cable to connect the **CAN OUT** port on the MAC to the **CAN IN** port on the aPower and then connect the **CAN OUT** port on the aPower to the **CAN IN** port on the aHub.

Note: *For aPower S units, all CAN ports support both input and output. Port selection is flexible. Remove the matching terminals from all units except for the one in the last device.*

Figure 5: MAC + aPower 2 + aHub

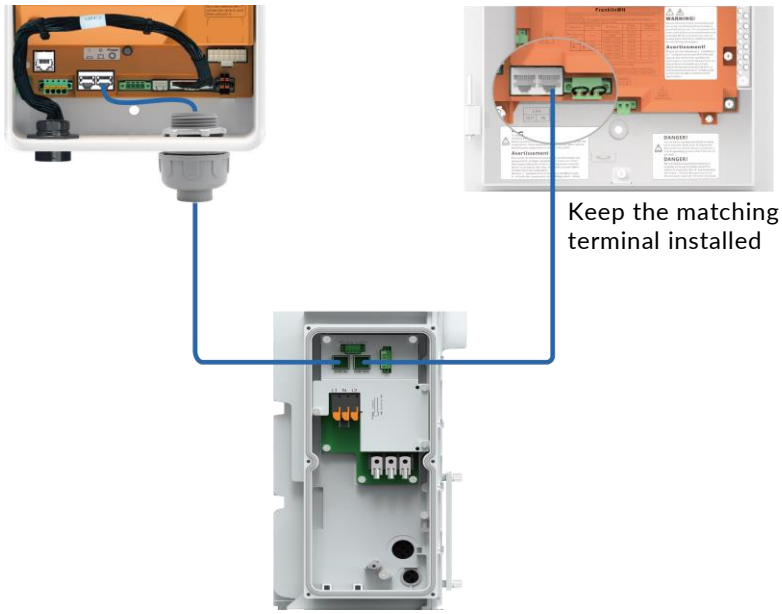
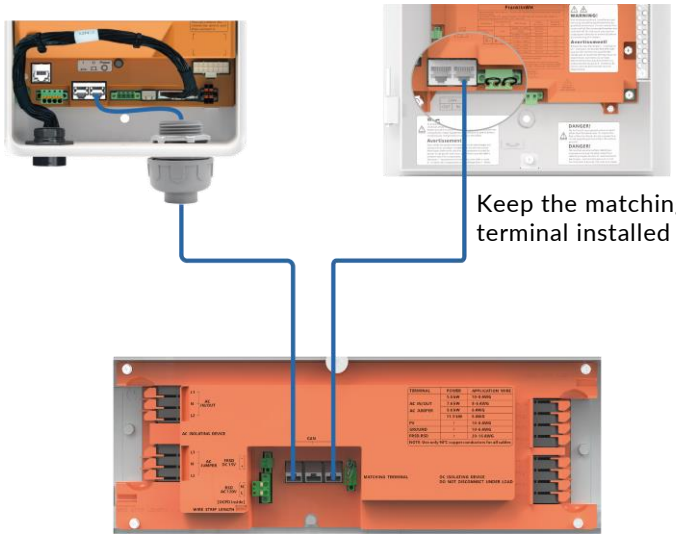


Figure 6: MAC + aPower S + aHub



If the total distance between the MAC 1, aPower, and aHub exceeds 164 ft (50 m), please contact engineering@franklinwh.com for guidance.

Establish communications between the aGate, aHub, and the aPower

WARNING: When an aHub and an aGate are combined, the generator and EV are only allowed to connect to the aGate, not the aHub.

Use a minimum CAT5 network cable to connect the **CAN OUT** port on the aGate to the **CAN IN** port on the aPower, and connect the **CAN OUT** port on the aPower to the **CAN IN** port on the aHub.

Note: *For aPower S units, all CAN ports support both input and output. Port selection is flexible. Remove the matching terminals from all units except for the one in the last device.*

Figure 7: aGate + aPower 2 + aHub

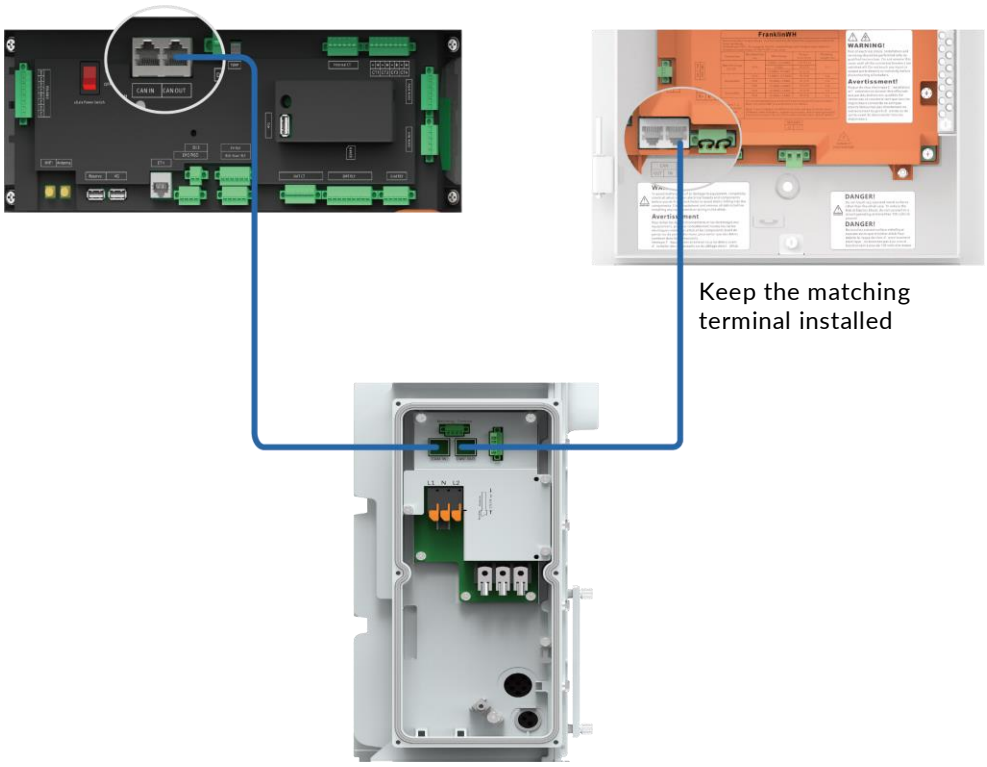
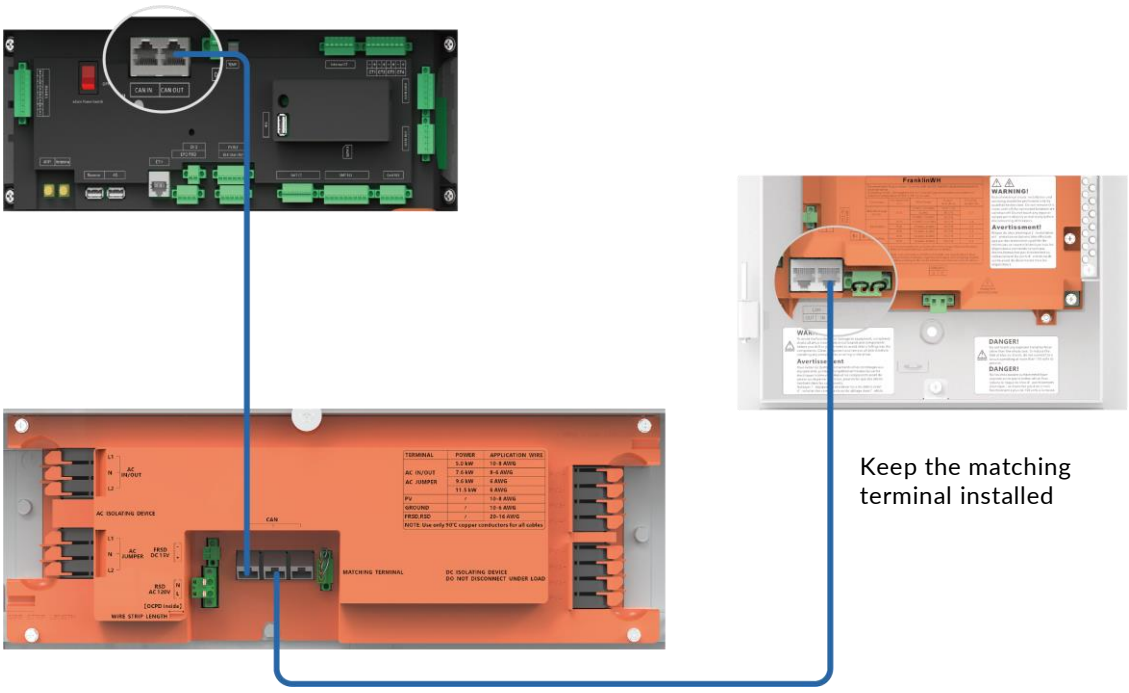


Figure 8: aGate + aPower S + aHub



If the total distance between the aGate, aPower, and aHub exceeds 164 ft (50 m), please contact engineering@franklinwh.com for guidance.

Electrical Wiring

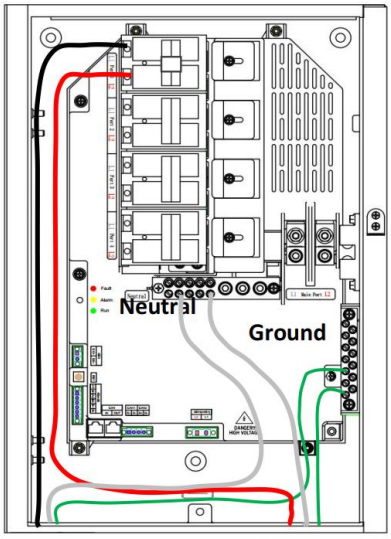
NOTE

- The wiring of breakers should follow the specific breaker instructions. The power sources must be connected to the aHub at the corresponding ports.
- Refer to the breaker specifications for the tightening torque value for the breaker output cable screws.
- The ground cable does not pass through the circuit breaker.

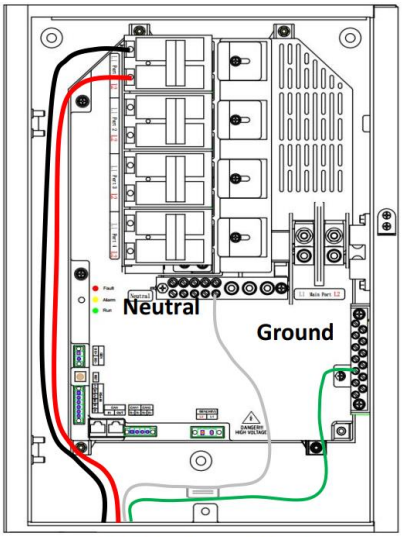
Connect the Smart Circuits (optional)

A single aHub supports up to four 240 Vac load circuits or eight 120 Vac Smart Circuits.

Wiring for each Smart Circuit should follow the configurations shown below for the Port 1 connection.



120 Vac Smart Circuits

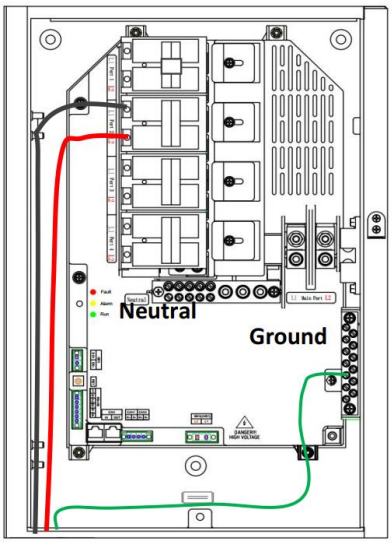


240 Vac Smart Circuits

Connect the PV inverter to the aHub

A single aHub can support up to three 240 Vac PV circuits.

An aHub supports only 240 Vac PV connections, which should be wired using L1, L2, and Ground, as shown below for the Port 2 connection. Ports 3 and 4 can follow the same connection method as Port 2.



240 Vac PV

Connect a Standby Generator to the aHub

Only aHub Port 4 supports 240 Vac standby generator access and is compatible with voltage sensing, ATS and dry contact generators, enabling automatic generator control.

NOTE

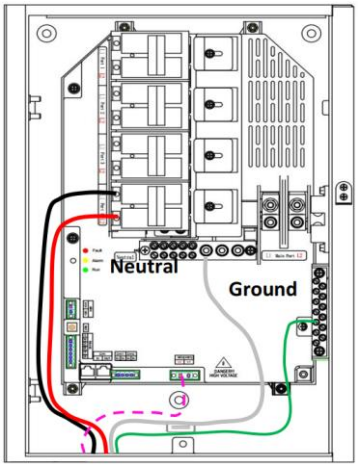
- The non-relay-controlled PV in the system must be connected via the aHub. Otherwise, the generator cannot be started successfully.
- Due to differences in various generator types, the following wiring diagrams are for reference only. Refer to the specific generator instructions for actual wiring requirements.
- The aHub communicates via a CAN port. Using the RS485 port will disable the V2L and generator functions.

WARNING: When an aHub and an aGate are combined, the generator and EV are only allowed to connect to the aGate, not the aHub.

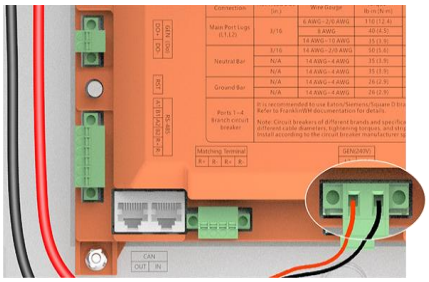
Voltage sensing/ATS Generator Connection

Step 1 Connect the generator power output wires (E1, E2, NEU, GND) to the aHub Port 4 (L1, L2, Neutral & GND).

Step 2 Connect the two 240 Vac pins to the voltage sensing port on the generator or to the main power input port of the ATS (Automatic Transfer Switch), as shown in the diagram below. Please select cables with a gauge of 18 AWG to 12 AWG, in accordance with local regulations.



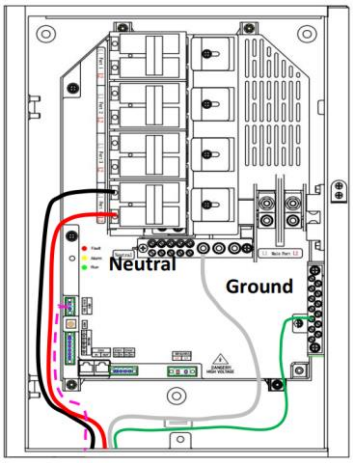
240 Vac Voltage sensing/ATS Generator



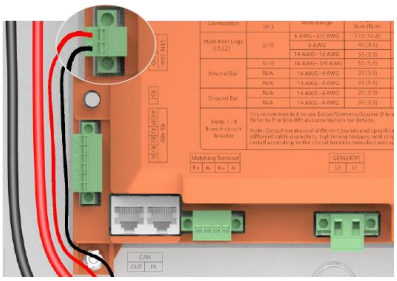
Dry Contact Generator Connection

Step 1 Connect the generator power output wires (E1, E2, NEU, GND) to the aHub Port 4 (L1, L2, Neutral & GND).

Step 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.



240 Vac Dry Contact Generator



Connect the Portable Generator or Electric Vehicle (EV) to the aHub

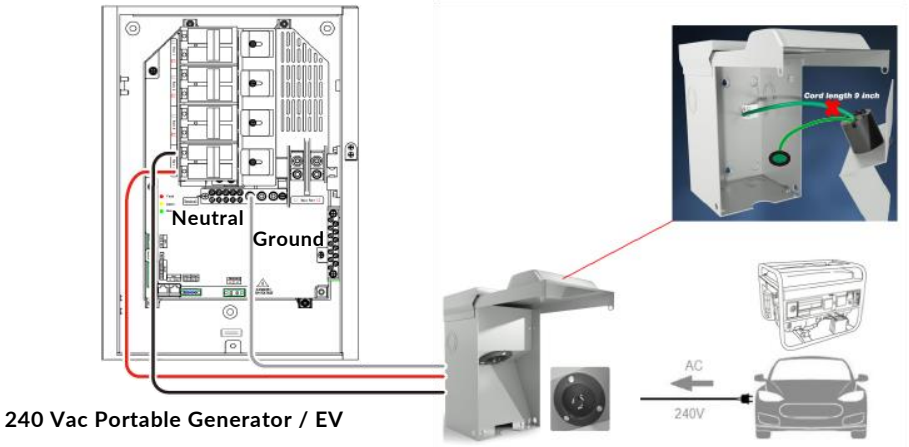
aHub Port 4 only supports 240 Vac either a portable generator or EV access (check EV Owner's Manual to confirm voltage output from EVPE outlet feature with integrated GFCI indicator and trip reset).

NOTE

- Connect the aHub via the CAN port for communications. Using the RS485 port will disable the V2L and generator 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 shall 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 generator or 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. When connecting a portable generator, reconnect the outlet ground to the inlet box.*



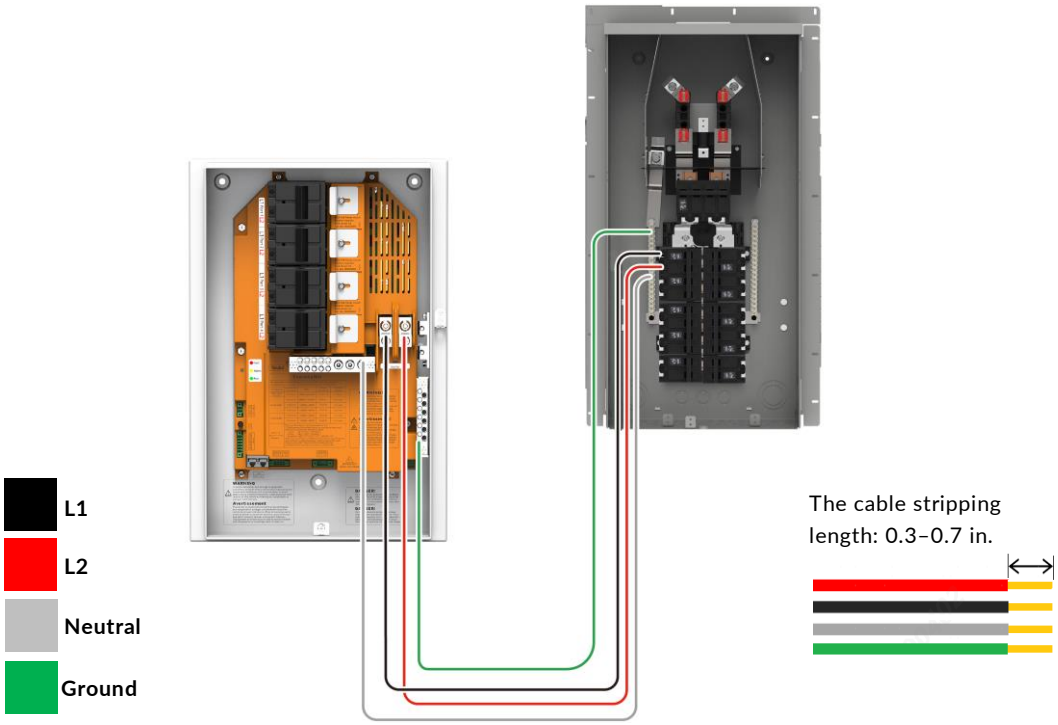
240 Vac Portable Generator / EV

Connect the aHub to the Main Panel

NOTE: Use ONLY copper conductors with a temperature rating of 194° F (90° C) for aPower connections.

Follow these guidelines when wiring one aHub to the main panel:

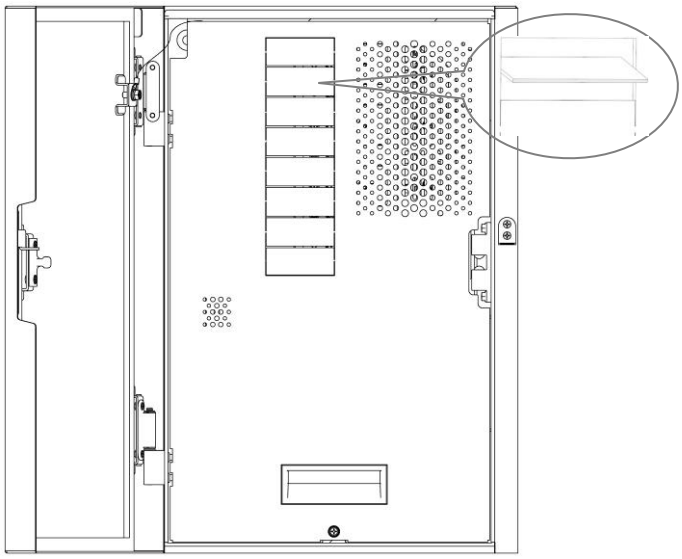
- Use one (1) pair of wires for a single aHub connection to the 2-pole breaker on the main panel.
- Strip the aHub port cable to the length indicated on the aHub label.
- To connect the other end of the cable to the main panel breaker, determine the cable stripping length based on the breaker configured.



Connection	Hex Head Size (in.)	Wire Gauge	Torgue lb·in (N·m)	Stripping Length (in.)
Main Port Lugs (L1, L2)	3/16	6 AWG~2/0 AWG	110 (12.4)	0.7
		8 AWG	40 (4.5)	
		14 AWG~10 AWG	35 (3.9)	
Neutral Bar	3/16	14 AWG~2/0 AWG	50 (5.6)	0.8
	N/A	14 AWG~4 AWG	35 (3.9)	0.4
	N/A	14 AWG~4 AWG	35 (3.9)	0.8
Ground Bar	N/A	14 AWG~4 AWG	26 (2.9)	0.3
	N/A	14 AWG~4 AWG	26 (2.9)	0.5

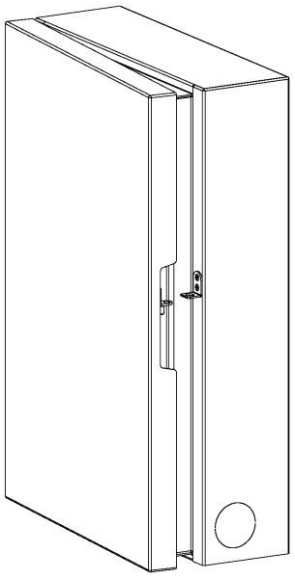
Complete Installation

Step 1. Remove the knockouts on the inner panel according to the installed breakers.



Step 2. Install the inner panel and fasten it by tightening an original M5 x 12 combination bolt to 2.21 lbf·ft (3.0 Nm).

Step 3. Close the aHub door. Press the middle latch to ensure that the door is tightly closed without any gap.



Configure the aHub using the FranklinWH App

The aHub works with the FranklinWH App. Keep the app up to date for normal operations. You can install the latest version of the app from the Apple App Store and Google Play Store.

For more information, refer to FranklinWH Commissioning Guide.

App Store Google Play

Technical Support

For further support, please contact your installer or the FranklinWH service team at *www.franklinwh.com/support.* Please be prepared to provide the following information before you contact FranklinWH:

- Owner name
- Your preferred desired contact method (name, phone number, email)
- The serial number of your aHub (as shown in the figure below) status
- A brief description of your problem

Appendix 1: Allowed Breaker

1-Pole Breaker					
S/N	**Description**	**Port NO.**	**Manufacturer & Model 1**	**Manufacturer & Model 2**	**Manufacturer & Model 3**
1	1-Pole, 10 kAIC,	Port 1~4	Eaton #BR115	Siemens #Q115	Schneider #HOM115
2	1-Pole, 10 kAIC,	Port 1~4	Eaton #BR120	Siemens #Q120	Schneider #HOM120
3	1-Pole, 10 kAIC,	Port 1~4	Eaton #BR130	Siemens #Q130	Schneider #HOM130
4	1-Pole, 10 kAIC,	Port 1~4	Eaton #BR140	Siemens #Q140	Schneider #HOM140
5	1-Pole, 10 kAIC,	Port 1~4	Eaton #BR150	Siemens #Q150	Schneider #HOM150
6	1-Pole, 10 kAIC,	Port 1~4	Eaton #BR160	Siemens #Q160	N/A
7	1-Pole, 10 kAIC,	Port 4	Eaton #BR170	Siemens #Q170	N/A

2-Pole Breaker					
S/N	**Description**	**Port NO.**	**Manufacturer & Model 1**	**Manufacturer & Model 2**	**Manufacturer & Model 3**
1	2-Pole, 10 kAIC,	Port 1~4	Eaton #BR215	Siemens #Q215	Schneider #HOM215
2	2-Pole, 10 kAIC,	Port 1~4	Eaton #BR220	Siemens #Q220	Schneider #HOM220
3	2-Pole, 10 kAIC,	Port 1~4	Eaton #BR230	Siemens #Q230	Schneider #HOM230
4	2-Pole, 10 kAIC,	Port 1~4	Eaton #BR240	Siemens #Q240	Schneider #HOM240
5	2-Pole, 10 kAIC,	Port 1~4	Eaton #BR250	Siemens #Q250	Schneider #HOM250
6	2-Pole, 10 kAIC,	Port 1~4	Eaton #BR260	Siemens #Q260	Schneider #HOM260
7	2-Pole, 10 kAIC,	Port 4	Eaton #BR270	Siemens #Q270	Schneider #HOM270
8	2-Pole, 10 kAIC,	Port 4	Eaton #BR280	Siemens #Q280	Schneider #HOM280
9	2-Pole, 10 kAIC,	Port 4	Eaton #BR290	Siemens #Q290	Schneider #HOM290
10	2-Pole, 10 kAIC,	Port 4	Eaton #BR2100	Siemens #Q2100	Schneider #HOM2100

Note: *This table lists common circuit breakers with different current ratings. If using a different rating, ensure the total current per phase does not exceed the maximum recommended on the label. If suitable for your application, a 2-Pole Quadplex Breaker is optional.*

Appendix 2: Revision History

Revision	Date	Description
V1.0	2026-01-22	Initial release