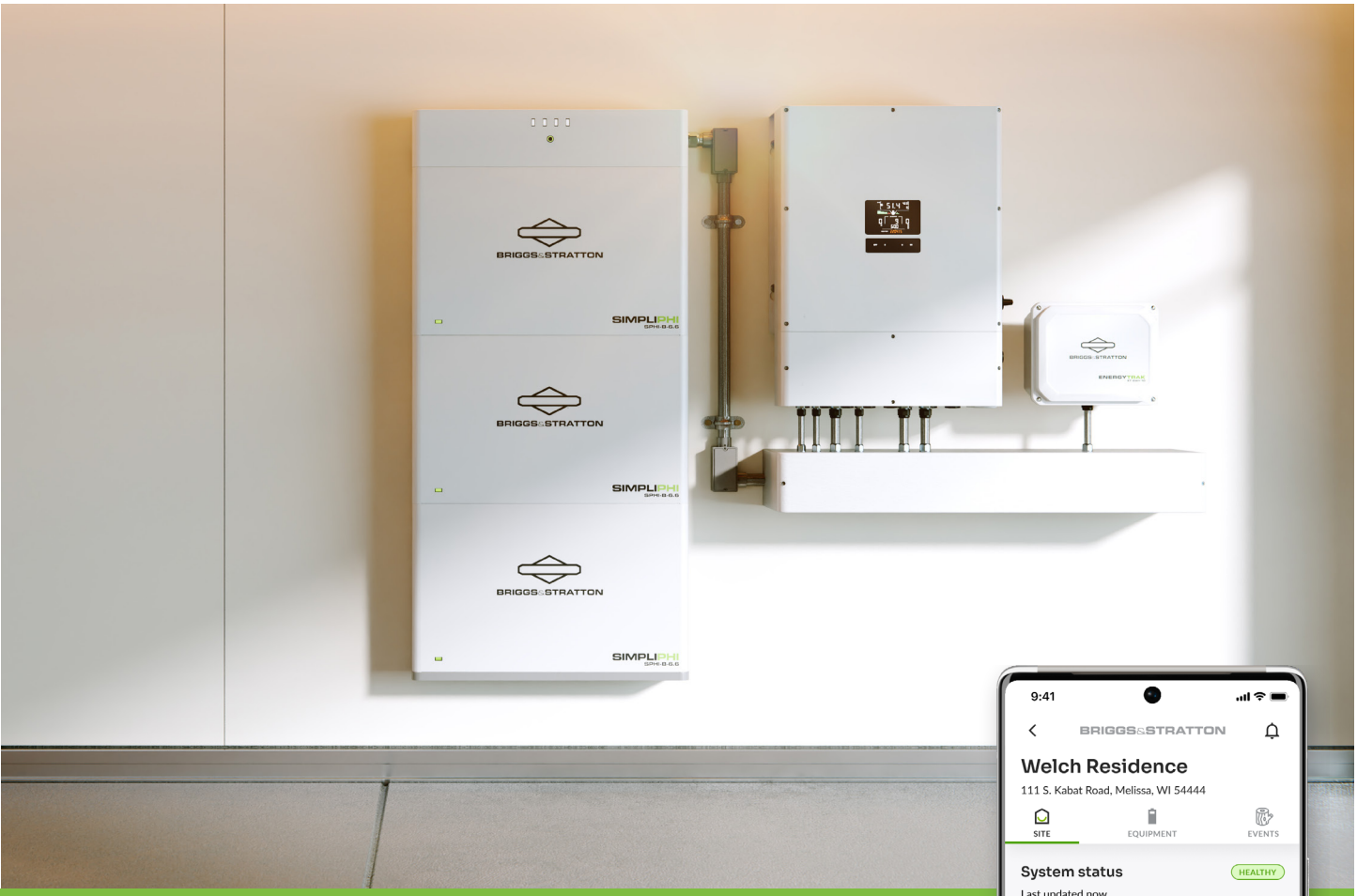

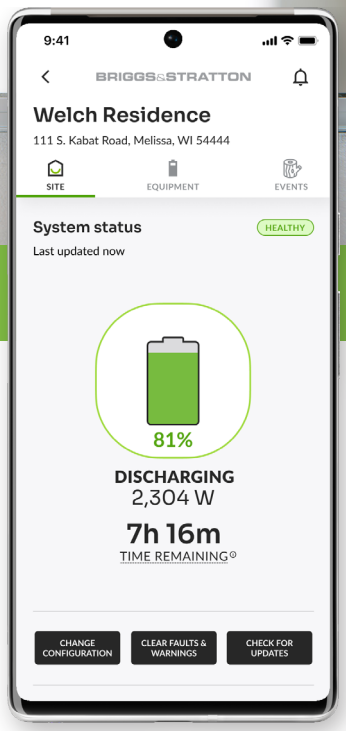

EnergyTrak™ Installation and User Manual

BRIGGS&STRATTON
ENERGY SOLUTIONS

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Important Safety Instructions

Symbol	Meaning	Symbol	Meaning
	Safety alert symbol shows a possible personal injury hazard or damage to the system.		Chemical Burn
	Read Manual. Failure to obey warnings, instructions, installation manual, and Operator's Manual could result in death or serious injury.		Toxic Fume
	Explosion		Eye Protection
	Electric Shock		Hot Surface
	Auto-Start		Rotating Parts
	Fire		

Safety Alert Symbol and Signal Words

This safety alert symbol identifies safety information about hazards that could result in personal injury or damage to the system. A signal word (DANGER, WARNING, or CAUTION) is used to indicate the likelihood and the potential severity of injury. In addition, a hazard symbol is used to represent the type of hazard.

DANGER indicates a hazard which, if not avoided, **will** result in death or serious injury.

WARNING indicates a hazard which, if not avoided, **could** result in death or serious injury.

CAUTION indicates a hazard which, if not avoided, **could** result in minor or moderate injury.

NOTICE indicates information considered important but not hazard-related.

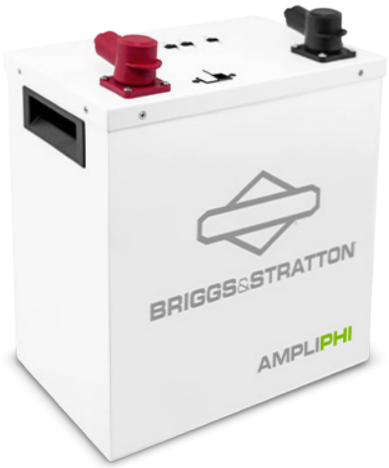
Warranty Statement

The following abbreviated guidelines do NOT encompass all EnergyTrak Warranty details. Failure to adhere to the Warranty and Installation Manual requirements will violate the terms of the Warranty. Read the complete Warranty and Installation Manual related to EnergyTrak and its connected Briggs & Stratton Energy Solutions products prior to installation, which can be found at **www.energy.briggsandstratton.com**.

Product Compatibility

This manual is written for EnergyTrak installations with the following compatible products: SimpliPHI 6.6 Battery System and AmpliPHI 3.8 Battery.

SimpliPHI® 6.6 Battery System



AmpliPHI™ 3.8 Battery

Site Network and Internet Requirements

General Network & Internet Requirements

At the site of installation, the system owner is responsible for providing an internet connection to the EnergyTrak Gateway using one of the following:

- Hardwired network connection using an ethernet cable (RECOMMENDED), or
- Wi-Fi network connection with a strong signal at the location of the EnergyTrak Gateway.

>>> All network equipment associated with connecting the EnergyTrak Gateway to the Internet (i.e., router, modem, network switches) should be powered from a backed-up loads panel so that these systems maintain operation in all power scenarios.

Hardwired Network Requirements (recommended)

A hardwired network connection to the EnergyTrak Gateway requires:

- Available Ethernet port for the Gateway to connect to the local area network, and
- A Cat-5e or Cat-6 ethernet cable (100 meters or less in length).

Wi-Fi Network Requirements

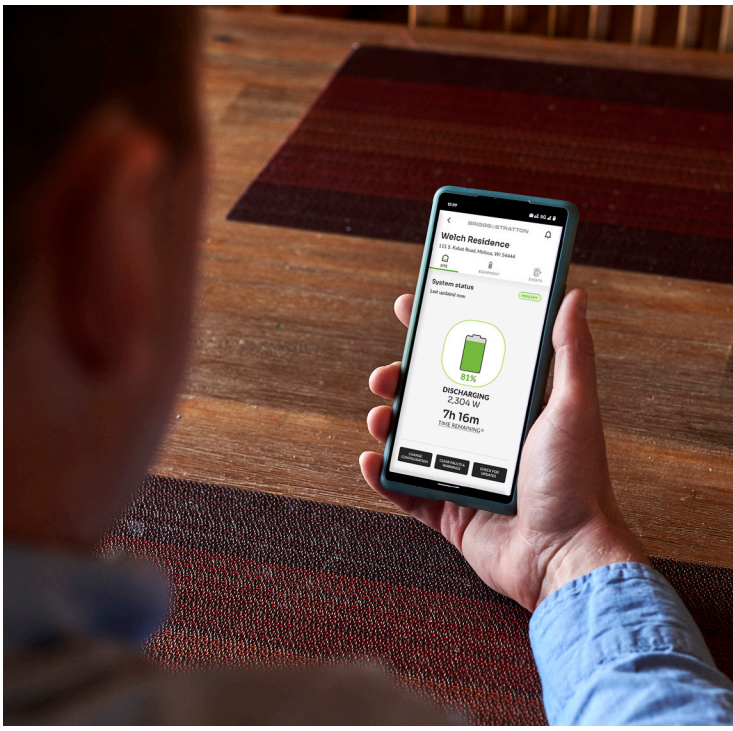
A Wi-Fi network connection to the EnergyTrak Gateway requires:

- Frequency band of either 2.4 or 5 GHz, and
- Adequate signal strength at the installed location of the EnergyTrak Gateway.

>>> An internet connection is REQUIRED for using EnergyTrak

>>> **NOTICE:** An unreliable Wi-Fi network connection can disrupt timely firmware updates, which could lead to critical system failures. It is important that owners maintain the Wi-Fi network being used to connect EnergyTrak to the Internet.

EnergyTrak Quick Start Guide



Before You Start

There are several preparations and pieces of information to collect before you set up battery systems from the EnergyTrak app.

Energy Storage System Installation

Ensure your energy storage system has been properly installed as outlined in the product installation manuals.

Gateway Installation

Ensure the EnergyTrak Gateway has been installed properly as outlined in the section above titled EnergyTrak Gateway Installation.

Wi-Fi Info (optional)

If using a Wi-Fi network connection to connect the EnergyTrak Gateway to the Internet, confirm the Wi-Fi network credentials (network name/SSID and password) for the site's network.

>>> **WARNING:** An unreliable wireless network connection can disrupt timely firmware updates, which could lead to critical system failures. Therefore, Briggs & Stratton does not recommend the use of a wireless connection.

Gateway Proximity

Ensure you are within Bluetooth range (10 feet) of the EnergyTrak Gateway.

Site Info

The connected equipment will be registered to a "site" within EnergyTrak. To create a new site, you will need:

- Site name
- Street address
- City
- State
- Zip code

A new site can be created at any time prior to commissioning the system.

System Owner Info

Towards the end of setup, you can optionally create a System Owner user account to provide them access to EnergyTrak. This is the only way which an owner can view their site with EnergyTrak. Confirm the owner's full name, email address, and phone number in order to complete this.

Mobile Device Battery Level

Ensure the mobile device being used to perform setup in the EnergyTrak app has at least 50% battery level.

Battery Charge Level

Ensure that the connected battery (or batteries) have at least a 30% charge level (SoC) prior to beginning. This ensures that critical processes are not interrupted due to a loss of power.

Create a New Site

To create a new site, navigate to the sites list and press the CREATE NEW SITE button at the bottom of the screen.

More information: Before you are able to set up the battery using the EnergyTrak app, you will first need to create a new site in the app. A site represents the physical location where the product is being installed (typically, a residence or a business).

Setup Equipment

Once the site has been created, open the site in the EnergyTrak app and click the SETUP button.

Establish Power to the Gateway

Before continuing further, establish power to the gateway. The gateway is powered from the battery bank.

Connect to Gateway

Select the appropriate gateway from the list for the EnergyTrak Gateway that was installed, and then press the CONTINUE button. If prompted by the mobile device, be sure to allow both the Bluetooth connection and location services.

More information: EnergyTrak uses a Bluetooth connection between the EnergyTrak Gateway and the mobile device running the EnergyTrak app. The Bluetooth list will show all available EnergyTrak Gateways that are in range of the mobile device. The name of the gateway's Bluetooth network matches its ID#, which is printed on the label of the gateway.

Resolving Connection Issues

If you have issues while attempting to connect to the EnergyTrak Gateway over Bluetooth, follow the below steps to attempt to resolve the issues:

1. Force close the EnergyTrak app on your mobile device.
2. Use the Bluetooth menu on your mobile device to forget all previously paired EnergyTrak Gateways.
3. Reboot the EnergyTrak Gateway by power cycling it. The gateway can be power cycled by opening the fuse holder door or disconnecting the power cable, waiting 15 seconds, and then reestablishing power to the gateway. Note: It can take up to two (2) minutes for the gateway to begin transmitting its Bluetooth network after power cycling.
4. Reopen the EnergyTrak app and restart the setup process.

If you are still experiencing problems with the Bluetooth connection after attempting the previous steps, uninstall the EnergyTrak app from your mobile device, reinstall it, and then try again.

Connect Gateway to the Internet

If the EnergyTrak Gateway has already been connected to the Internet using a hardwired Ethernet cable connection, then this step can be skipped. Optionally, the Wi-Fi network connection can also be set up as a redundant connection to the Ethernet connection.

If using Wi-Fi as the primary network for the Internet connection (NOT RECOMMENDED), this step must NOT be skipped.

>>> **WARNING:** An unreliable wireless network connection can disrupt timely firmware updates, which could lead to critical system failures. Therefore, Briggs & Stratton does not recommend the use of a wireless connection.

To set up the Wi-Fi network connection, select the appropriate Wi-Fi network from the list, press CONNECT, enter the network's password, and then press the JOIN button.

Note: EnergyTrak requires an Internet connection to operate. Establishing an Internet connection to the EnergyTrak Gateway does rely on the site's local network and its Internet connection. This requires the system owner to provide and maintain a healthy, reliable network and Internet connection for EnergyTrak. See the section above titled Site Network and Internet Requirements for specific requirements.

Equipment Details

Ensure the proper equipment has been detected, including all expected quantities of battery controllers and modules.

More information: The EnergyTrak Gateway will automatically search for and detect the compatible equipment which is (a) powered ON and (b) properly connected to the gateway. The Equipment Details screen will show each individual component it is able to detect.

Update Firmware

If the software running on the connected equipment (battery and gateway) are up-to-date, press the CONTINUE button (it will be the only button shown).

If the software running on any of the connected equipment needs to be updated, the EnergyTrak app will indicate the update is available and walk you through options for updating the equipment. Follow the app's on-screen instructions to apply the updates as desired.

Add System Owner

Enter the required information for the System Owner and press the ADD button. This will create a new EnergyTrak System Owner user account.

More information: If the email address is NOT associated with an existing EnergyTrak account, an email invitation will be sent to the provided email address (from energytrak@basco.com). It is recommended to confirm that the customer received the email before completing the job.

If the email address is already associated with an EnergyTrak account, you must skip this step and add the System Owner from the Site Dashboard screen once commissioning is complete.

Setup Confirmation

Setup complete! At this time, the EnergyTrak Gateway should be connected to the Internet and reporting system status through the EnergyTrak app.

The site should be viewable from the Sites screen in the EnergyTrak app, and the status of the site should be HEALTHY unless something needs to be addressed.

The Site Dashboard and Change Configuration features can be used to view and validate the settings which have been applied to the system. Pros are highly encouraged to review this detail and validate the system's operation prior to completing their work.

Troubleshooting

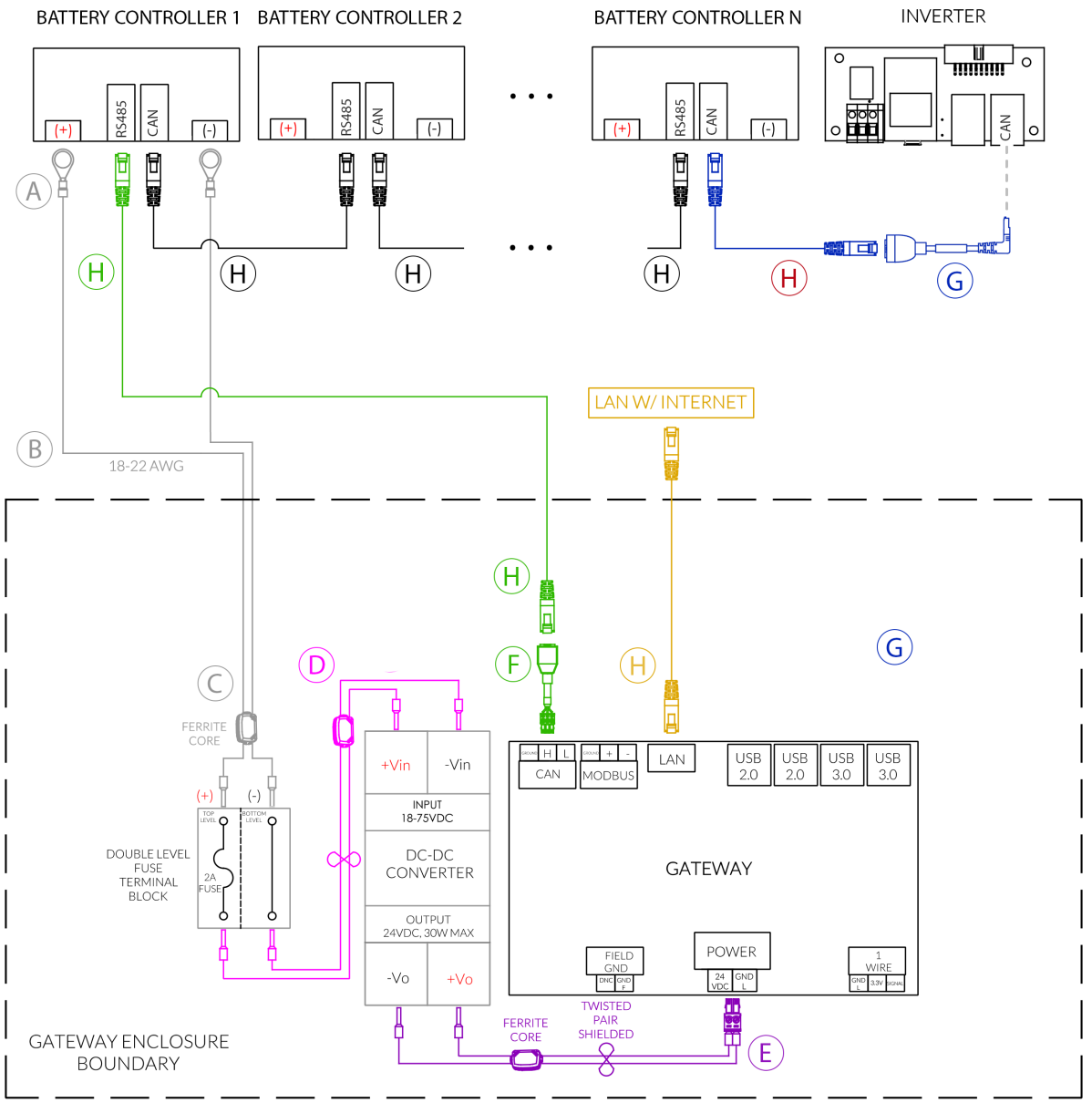
At this point, if the system is producing any faults, or the system is not operating as intended, the technician should troubleshoot the system using the self-help resources available. Technical Support from Briggs & Stratton is also available to assist technicians with troubleshooting. The Help screen in the EnergyTrak app (found in the primary menu) includes links to resources and contact information for Technical Support, if needed.

EnergyTrak Gateway Installation

The EnergyTrak gateway integrates with multiple Briggs & Stratton battery systems and supports various numbers of batteries per system. Follow the wiring diagram appropriate to your battery type. Note that the Gateway CAN bus dongles are specific to battery type and are not interchangeable.

Systems with Multiple SimpliPHI 6.6 Battery Stacks

Installation Diagram



>>> **WARNING:** Connecting the EnergyTrak Gateway to an Energy Storage System (ESS) requires physical contact with the inverter and battery that could result in shock or serious injury. Follow proper safety precautions as laid out in the product installation manuals.

Required Cables and Adapters

Included Cables and Adapters

A. Battery Power 10mm Ring Terminals* (2 Included With Gateway)

B. Ferrite Core For Electrical Wires

C. Fuse Dc Jumper Cable (Pre-Installed)

D. Gateway Power Cables (Pre-Installed)

E. CAN To RJ45 Adapter Specific To SimpliPHI 6.6 (p/n 80134966 Included With SimplipPHI 6.6 Controller)

F. SimpliPHI 6.6 Battery CAN To Sol-Ark Adapter (p/n 80134942 Included With SimpliPHI 6.6 Controller)

Not Included (Customer Provided)

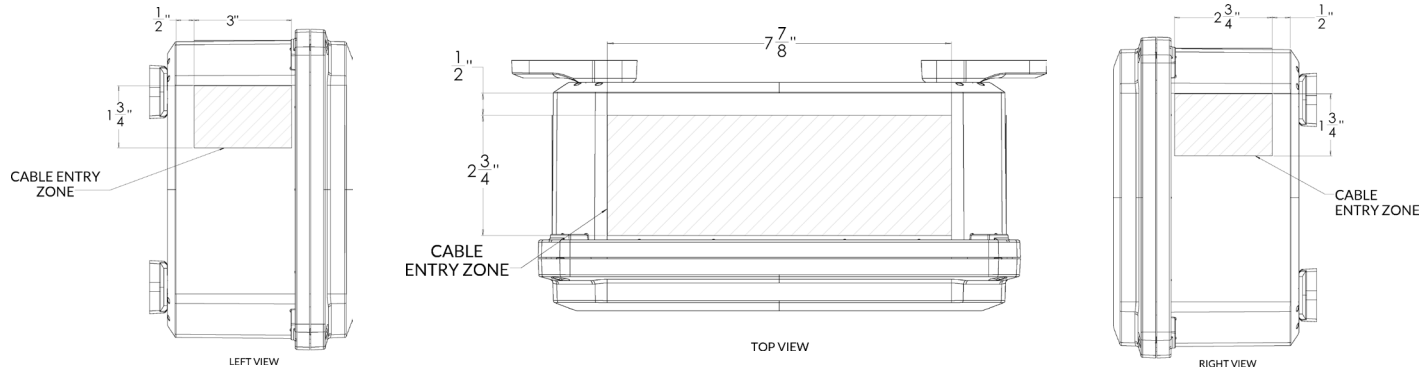
G. Battery To Gateway Electrical Wires (Two (2) Wires, Shielded Grounded Twisted Pair)

H. Ethernet Cable (Cat-5e Or Cat-6)

*48VDC power for the gateway may be connected to alternative locations such as the DC combiner, provided this power source remains active when the batteries are providing output. The gateway power draw is ~5W.

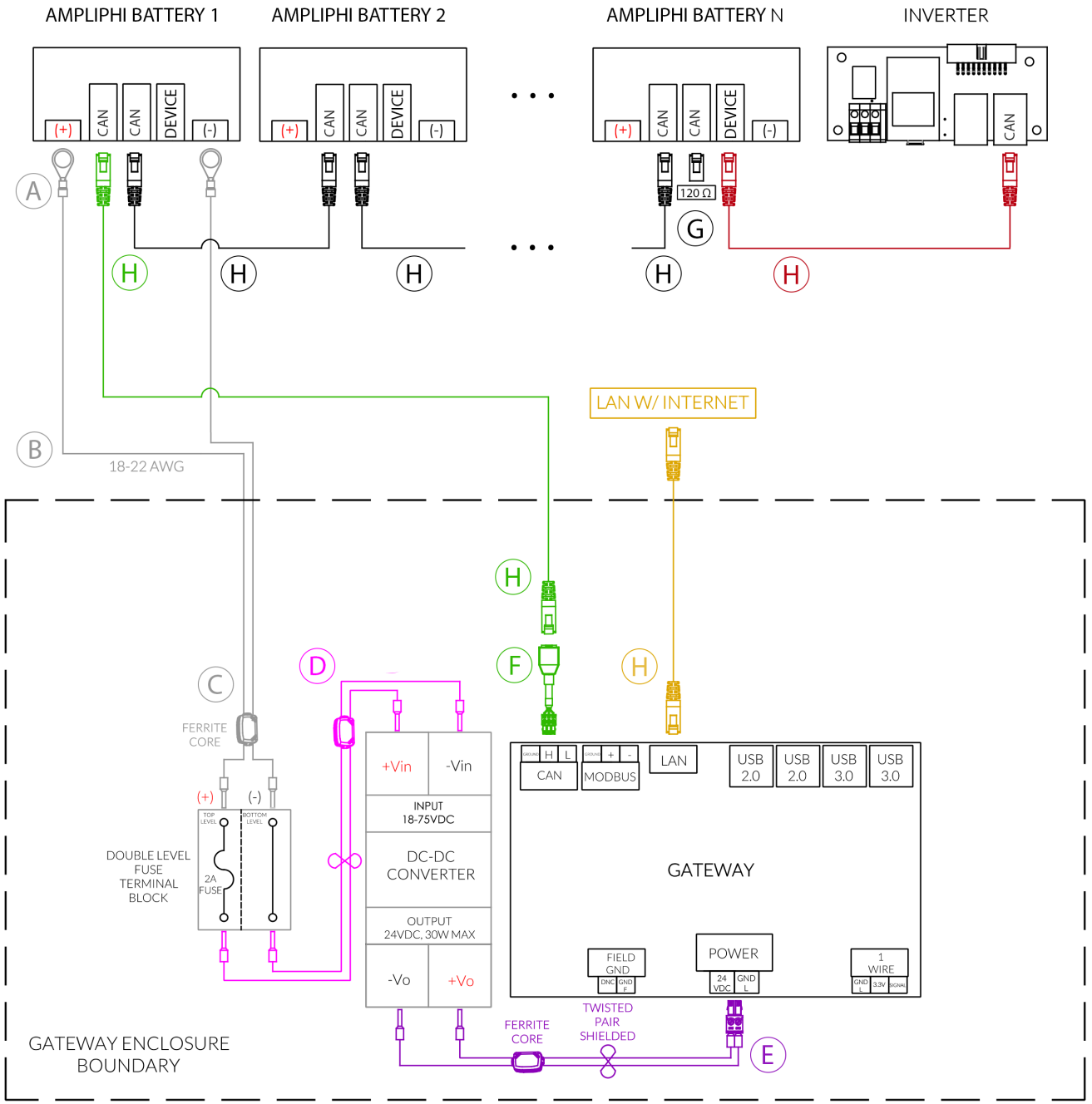
Gateway Enclosure Conduit Entry Points

1. Entry points for cabling should be drilled into the flat surface plane on the top of the gateway enclosure and/or the upper sides of the gateway enclosure. Use the visual diagrams in this section for more specific guidance on proper entry point locations.
2. It is recommended to drill the fewest possible entry points to accommodate the required cabling based on the specific installation.
3. Use the appropriate conduit fittings for the installation to maintain the outdoor rating per local AHJ (authority having jurisdiction).



Systems with Multiple AmpliPHI 3.8 Batteries

Installation Diagram



>>> **WARNING:** Connecting the EnergyTrak Gateway to an Energy Storage System (ESS) requires physical contact with the inverter and battery that could result in shock or serious injury. Follow proper safety precautions as laid out in the product installation manuals.

Required Cables and Adapters

Included Cables and Adapters

A. Battery Power 10mm Ring Terminals (2 Included)
B. Ferrite Core For Electrical Wires
C. Fuse Dc Jumper Cable (Pre-Installed)
D. Gateway Power Cables (Pre-Installed)
E. CAN To RJ45 Adapter Specific To AmpliPHI 3.8 (p/n 80134966 Included With ET Gateway)
F. Terminating Resistor Specific To AmpliPHI (Included With AmpliPHI 3.8 Battery)

Not Included (Customer Provided)

G. Battery To Gateway Electrical Wires (Two (2) Wires, Shielded Grounded Twisted Pair)
H. Ethernet Cable (Cat-5e Or Cat-6)

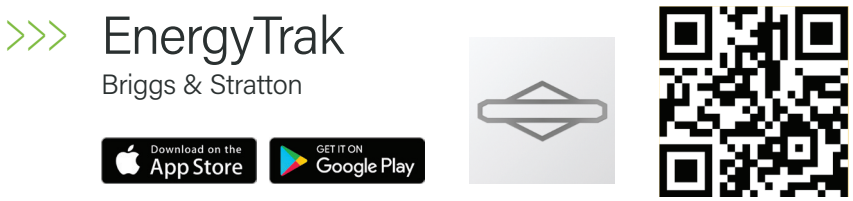
*48VDC power for the gateway may be connected to alternative locations such as the DC combiner, provided this power source remains active when the batteries are providing output. The gateway power draw is ~5W.

EnergyTrak App

Installing the EnergyTrak App

You can download the EnergyTrak app from the respective app store for your Android or Apple mobile device. Scan the QR code below from your mobile device for easy access. You can also navigate to **www.energytrak.app/mobile** in your browser for quick forwarding to the app store for your device.

Alternatively, you can search "EnergyTrak" in the respective app store to find and install the app.



User Creation and Management

Users can be managed and created from the Users screen in the EnergyTrak app. User account types include:

Pro Admins

With the most permissions available to Pro users within their business, Pro Admins have the ability to:

- Create and manage users, including Pro Admins, Pro Technicians, and System Owners
- Create and manage customer sites
- Add or remove sites to Pro Technician user accounts
- Setup new products
- View all customer sites
- Receive notifications for all registered sites

Pro Technicians

Designed for Pro users who are working with customer products every day, Pro Technicians have a streamlined feature set to help them focus on what needs to get done:

- Create new sites
- Create new System Owner users (during commissioning only)
- Setup new products
- View assigned customer sites
- Reconfigure installed products at assigned customer sites
- Receive notifications from assigned customer sites

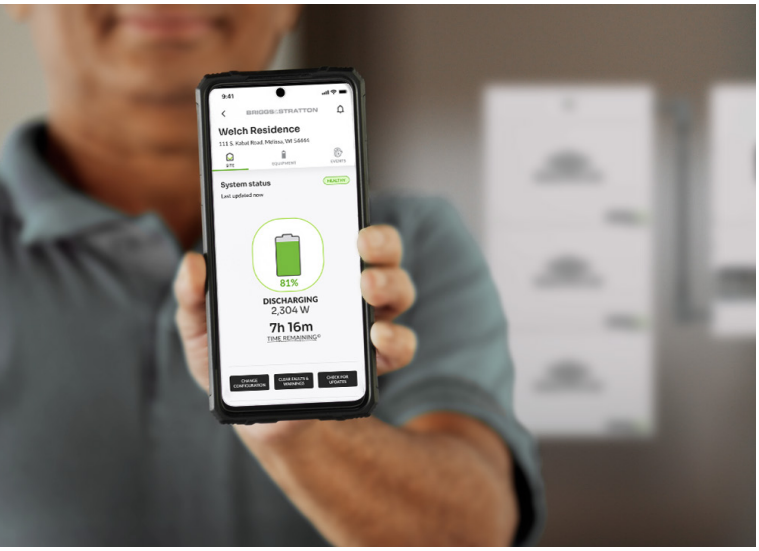
System Owners

For users purchasing an EnergyTrak-enabled product and installing it at their site, System Owners get the information and control they need over their site and installed products, including:

- View site and product details
- Change Wi-Fi network settings
- Receive notifications from registered sites

Site Fleet Tracking

Pro users can monitor the status of their customer sites from the Sites screen in the EnergyTrak app. Each site has a health status that indicates its current operating state, including:



Healthy: All systems are functional and operating as configured

Warning: Some non-essential systems have been lost, but no reported critical failures

Critical: Essential failures with a system have been detected

Ready for Setup: The site has been created and is ready for device setup

Disconnected: Gateway has lost its connection to the EnergyTrak server

Deactivated: Site has been unregistered from the EnergyTrak platform

The Sites screen is also where Pro users can create new sites for new installations.

Site Dashboard

The Site Dashboard will show a live view of the site's operation, a list of the connected equipment, and a historical log of system events.

Health Status Screen

When viewing the dashboard for a particular site, you can click on the health status badge in the corner to get more information about the site's status. If the system is in WARNING or CRITICAL status, the app will show details about the specific warnings or faults that were detected from the connected devices.

Change Configuration

The Change Configuration feature allows users to adjust settings at a specific site related to EnergyTrak site and Wi-Fi connection. This capability can be accessed from the Change Configuration button found on the Site Dashboard. A particular user can only access this feature on sites which they are registered to.

Getting Started with EnergyTrak for Pros

Creating Your Company's First EnergyTrak Pro User Account

>>> **Complete this initial step well in advance of your first EnergyTrak installation.**

To begin using the EnergyTrak app as a Pro, you will need to create your company's first Pro user account: a Pro Admin. For improved security, creating your first EnergyTrak Pro Admin account is controlled by Briggs & Stratton.

To request the creation of your company's first Pro Admin account, complete the form found at **www.energy.briggsandstratton.com/energytrak-pro**. You will receive a welcome email from notify@energytrak.io once your account has been created. Contact Briggs & Stratton Technical Support for help with this process, or to check on the status of your request.

This manual step is only required to create your first Pro Admin account. You will then be able to use that account to create additional Pro Admin users and Pro Technician users (more information on user types in the below section titled EnergyTrak for Pros). Once your Pro Admin account has been created, you will receive instructions via email for logging in to your account on the EnergyTrak app.

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