

EnergyTrak 2.1.0.0 Release Notes

EnergyTrak 2.1.0.0 is now live!

VERSION INFORMATION

| | |
|--------------------------------|------------|
| <u>EnergyTrak Gateway:</u> | 2.1.0.6 |
| <u>Android Mobile App:</u> | 2.1.0 |
| <u>iOS Mobile App:</u> | 2.1.0 |
| <u>SimpliPHI 6kW Inverter:</u> | 3.39/24.17 |
| <u>SimpliPHI 6.6 Battery:</u> | 66.48.50 |
| <u>SimpliPHI 4.9 Battery:</u> | 1.0.0.7 |
| <u>AmpliPHI 3.8 Battery:</u> | 6.0.0.7 |

NEW FEATURES & IMPROVEMENTS

EnergyTrak for Batteries

We are thrilled to announce the full launch of our revolutionary new feature set for monitoring Briggs & Stratton communicating batteries—no SimpliPHI 6kW Hybrid Inverter needed! Now, you can seamlessly support a broader range of batteries, including the powerful SimpliPHI 6.6 Battery System, SimpliPHI 4.9 Battery, and AmpliPHI 3.8 Battery.

Say goodbye to the days of mandatory SimpliPHI inverter commissioning. With this incredible release, Pros can now activate new systems effortlessly, saving time and hassle. Users will love our new, sleek battery-only dashboard, designed for easy monitoring of all battery products. Plus, get ready for rapid enhancements, including real-time notifications and OTA firmware updates on the new SimpliPHI 6.6 Battery System.

Forced Gateway Updates During Commissioning

Attention, Pro users! We've rolled out an essential new feature that will elevate your commissioning experience. Now, before you begin, you'll be prompted to update the EnergyTrak Gateway's software. This mandatory update ensures you have access to the latest features and crucial bug fixes, guaranteeing a smoother, more efficient commissioning process.

Firmware Update for the SimpliPHI 6kW Hybrid Inverter

We are thrilled to announce the rollout of the new and improved 3.39/24.17 firmware for the SimpliPHI 6kW Hybrid Inverter! This update brings a host of stability and performance enhancements, making your inverter more reliable than ever.

BUG FIXES

Incorrect Gateway Software Version - FIXED

Fixed a bug where, on some occasions, the listed software version of the EnergyTrak Gateway was incorrect on the Gateway tab found on the Site Dashboard.

Grid Warnings in Off-Grid Mode - FIXED

Users will no longer see the warnings and health status change when detecting grid-related warnings from the SimpliPHI 6kW Hybrid Inverter operation in off-grid mode.

KNOWN BUGS AND ISSUES

Missing Timestamp in Email Notifications

Currently, the date-time provided in email notifications is in Coordinated Universal Time (UTC+0) and needs to be manually converted to local time. For example, the time of September 7, 2023, at 3:00 AM (UTC+0) is equal to September 6, 2023, at 10:00 PM Central Daylight Time (UTC-5).

- **WORKAROUND:** The date-time which the email was received generally matches the event. However, converting from UTC+0 to the local time zone is the most reliable way to solve this issue. There are many useful, free online tools available to help with this conversion.

Incorrect Warning Code in Email Notifications

When EnergyTrak generates an email notification to a user for a detected warning on the SimpliPHI 6kW Hybrid Inverter, the listed warning code is an alphabetical value that does not correspond to the numerical value displayed on the inverter. The below table maps these codes appropriately.

| Panel Code | Warning Name | Email Code |
|------------|---------------------|------------|
| 01 | Grid Voltage High | J |
| 02 | Grid Voltage Low | K |
| 02 | Grid Input Loss | O |
| 03 | Grid Frequency High | L |

| | | |
|----|------------------------------------|---|
| 04 | Grid Frequency Low | M |
| 04 | Grid Frequency Loss | P |
| 05 | Sustained Grid Over Voltage | N |
| 07 | Island Detection | Q |
| 08 | Grid Input Waveform Not Acceptable | V |
| 09 | Grid Input Out of Phase | R |
| 10 | Rapid Shutdown Engaged | X |
| 11 | Inverter Overload | T |
| 12 | Inverter Over Temp | S |
| 13 | Battery Voltage Low | F |
| 14 | Battery Below Operating Voltage | E |
| 15 | Battery Disconnected | G |
| 16 | Battery Voltage Low | I |
| 17 | MPPT 1 Over Voltage | C |
| 17 | MPPT 2 Over Voltage | D |
| 17 | MPPT 1 Loss | A |
| 17 | MPPT 2 Loss | B |

Persistent Fault and Warning Events

Fault and warning events from connected equipment are not cleared from EnergyTrak if the gateway is offline at the time of the event clearing from the originating equipment. This causes the site in EnergyTrak to look like the event is persisting when it has actually cleared.

- **WORKAROUND:** You must force trigger and then resolve the same fault or warning event on the originating equipment while the gateway has a healthy Internet connection.

Some Inverter Settings Only Available in EnergyTrak

Certain individual settings on the SimpliPHI 6kW Hybrid Inverter are bundled into *Operating Profiles* in the EnergyTrak app and cannot be individually adjusted. If only some of these individual settings are changed from the inverter's front panel, EnergyTrak may override the individual change and revert the setting to the previous setpoint. This includes all inverter settings related to operating profiles, time-of-use, low battery cut-out, and re-discharge voltage. The below sub-sections list specific settings of the SimpliPHI 6kW Hybrid Inverter.

Settings Bundled in EnergyTrak by Operating Profile

The below settings must be changed as a group by selecting the most appropriate Operating Profile in EnergyTrak. More details regarding Operating Profiles can be found in the EnergyTrak Install and User Manual at <https://energy.briggsandstratton.com/>.

- 13 - Operation Mode
- 14 - PV Supply Priority Setting
- 15 - Charger Source Priority
- 16 - Feed to Grid Function
- 17 - Battery feed to grid function when PV is available
- 18 - Battery feed to grid function when PV energy is unavailable
- 19 - Load supply source (PV is available)
- 20 - Load supply source (PV is unavailable)
- 33 - Generator as AC Source (*this setting will always be configured to "Enabled" when the Off-Grid Operating Profile is selected*)

Settings Managed by EnergyTrak when the Grid-Tied Backup w/ Time-of-Use Operating Profile is Selected

- 21 - Start time system is allowed to charge from Grid or is connected to Grid
- 22 - Start time system is to power loads from battery and not from Grid
- 23 - Restart time system is allowed to charge from Grid or is connected to Grid
- 24 - Start time system is allowed to continue to be connected to grid to finish 24 hour cycle

Settings Bundled in EnergyTrak by Battery Reserve Level - Grid Unavailable

- 9 - Low DC cut off battery voltage setting when grid is unavailable
- 10 - Battery re-discharging voltage when grid is unavailable

| EnergyTrak Setpoint | 9 - Low DC cut off battery voltage setting when grid is unavailable | 10 - Battery re-discharging voltage when grid is unavailable |
|---------------------|---|--|
| 10% | 50.0 | 53.0 |
| 20% | 50.6 | 53.0 |
| 30% | 51.0 | 53.0 |
| 40% | 51.3 | 53.0 |
| 50% | 51.4 | 53.0 |
| 60% | 51.6 | 53.0 |
| 70% | 51.8 | 53.0 |

| | | |
|-----|------|------|
| 80% | 52.0 | 53.0 |
| 90% | 52.1 | 53.0 |

Note: In EnergyTrak, a user specifies the *Battery Reserve Level - Grid Unavailable* as a percent value from 10% to 90% (“EnergyTrak Setpoint” listed above). These setpoints correspond to the listed values for settings 9 and 10 on the SimpliPHI 6kW Hybrid Inverter.

Settings Bundled by Battery Reserve Level - TOU

- 11 - Low DC cut off battery voltage when grid is available
- 12 - Battery re-discharging voltage when grid is available

| EnergyTrak Setpoint | 11 - Low DC cut off battery voltage when grid is available | 12 - Battery re-discharging voltage when grid is available |
|---------------------|--|--|
| 10% | 50.0 | 54.0 |
| 20% | 50.6 | 54.0 |
| 30% | 51.0 | 54.0 |
| 40% | 51.3 | 54.0 |
| 50% | 51.4 | 54.0 |
| 60% | 51.6 | 54.0 |
| 70% | 51.8 | 54.0 |
| 80% | 52.0 | 54.0 |
| 90% | 52.1 | 54.0 |

Note: In EnergyTrak, a user specifies the *Battery Reserve Level - TOU* as a percent value from 10% to 90% (“EnergyTrak Setpoint” listed above). These setpoints correspond to the listed values for settings 11 and 12 on the SimpliPHI 6kW Hybrid Inverter. *Battery Reserve Level - TOU* can be modified only when the “Grid-Tied Backup” operating profile is selected and “Time-of-Use” is enabled. Otherwise, *Battery Reserve Level - TOU* will be fixed at 50%.

There is also active work to unify the naming convention of settings between the inverter documentation and EnergyTrak.

Required Setting for Parallel Inverters on Inverter Front Panel

For parallel installations of the SimpliPHI 6kW Hybrid Inverter, the “AC Output Mode” setting must be configured as “PAL” to ensure proper operation. This setting is currently only accessible via setting number 19 on the front panel of the inverter and cannot be changed with the EnergyTrak app. Please refer to the inverter’s installation manual for further instructions.

Inaccurate In-App Operating Telemetry

On rare occasions, the telemetry values displayed on the Site dashboard in the EnergyTrak app are inaccurate and do not match the correct values displayed on the inverter's front panel.

- **WORKAROUND:** This can usually be resolved by power cycling the EnergyTrak Gateway. 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.