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Technical Service Bulletin

Number: **ER000975A-_00** | Date: **October 29, 2026**

Affected Parts: **Cycle Satiator Charger**

Cycle Satiator Charger – Quick Start Guide

Purpose

This bulletin provides basic operating instructions for charging an Ethium lithium iron phosphate (LFP) battery with the Grin Technologies Cycle Satiator charger using the Ethium charge profiles.

A **video guide** can be found on the Ethium by EControls YouTube channel.

Equipment Required

- Cycle Satiator charger w/ Ethium charge profiles
- Alligator clip charge lead (included in kit)
- Standard 120 VAC, properly grounded outlet
- Ethium battery to be charged

Step 1 – Connect Charger to Power

Plug the Cycle Satiator into a standard, properly grounded 120 VAC outlet. A startup screen displays briefly, followed by the SELECT PROFILE screen.

Step 2 – Check Battery Voltage

Locate the product label on the battery and confirm its nominal voltage (24 V, 36 V or 48 V). The charge profile selected in Step 3 must match this voltage.

Step 3 – Select Charge Profile

Use the two buttons to the left of the display to scroll through the three Ethium profiles: the **top button** scrolls up and the **bottom button** scrolls down. Stop on the profile that matches the battery voltage from Step 2.



Figure 1: SELECT PROFILE screen (profile #02 (36 V)) selected

Table 1: Available Profiles

Profile	Voltage	Cells	Charge Voltage	Charge Current
#01 24V ECI LFP	24 V	8S	29.4 V	8.0 A
#02 36V ECI LFP	36 V	12S	44.1 V	8.0 A
#03 48V ECI LFP	48 V	16S	58.8 V	8.0 A

CAUTION: Selecting the wrong profile can damage the battery. Always confirm the profile matches the battery label before charging.

Step 4 – Verify Battery Is Disengaged

Double-press the button on the battery indicator panel. The charge level LEDs light up.

- **STATUS light OFF:** Battery is disengaged.
- **STATUS light ON (solid blue):** Battery is engaged and must be disengaged before connecting the charger. Press and hold the button until the **STATUS** light turns off, then double- press after the LEDs turn off to confirm battery is disengaged.

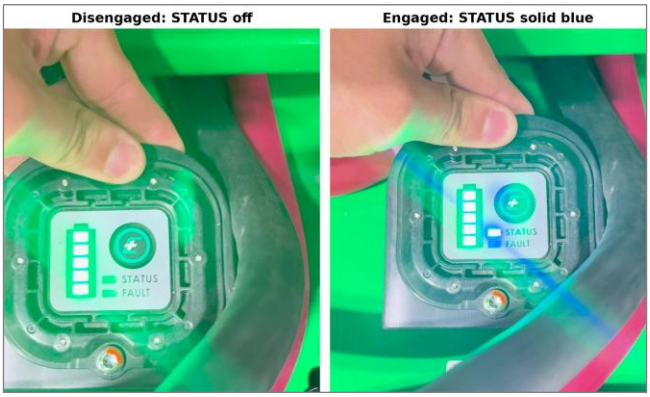


Figure 2: Battery indicator panel: disengaged (left), engaged (right)

Step 5 – Connect the Alligator Clips

Confirm the alligator clip lead is plugged into the Cycle Satiator, then clip the leads onto the truck-side cable connector:

- **Red** clip to the **positive (+)** terminal
- **Black** clip to the **negative (–)** terminal

CAUTION: Verify polarity before continuing. Reversed connections can damage the charger or battery.



Figure 3: Alligator clips connected to truck-side cable connector

Step 6 – Engage the Battery

Press and hold the button on the battery indicator panel to engage the battery. The **STATUS** light turns **solid blue** when the battery is engaged (see Figure 2).

If the STATUS light is **blinking**, do not proceed. Contact Ethium support for assistance.

Step 7 – Start the Charge

Confirm the Cycle Satiator is still on the correct profile. Press and hold the bottom button until OK is displayed, then release. Charging begins and the display shows:

- Target voltage (e.g., "Charging to 44.1V")
- Present battery voltage and charge current
- Elapsed charge time and total charge delivered

The charge current ramps up to the profile set point (8.0 A) and holds there. The Cycle Satiator then follows the charge profile automatically and does not need to be monitored.

Step 8 – Stop Charge / Turn Off Satiator

To stop charging at any time, press and hold the top button. **Abort Charge** is displayed. Release the button and charging stops.

To shut down after charging is stopped, remove the alligator clips from the truck-side connector, then unplug the Cycle Satiator from the outlet.

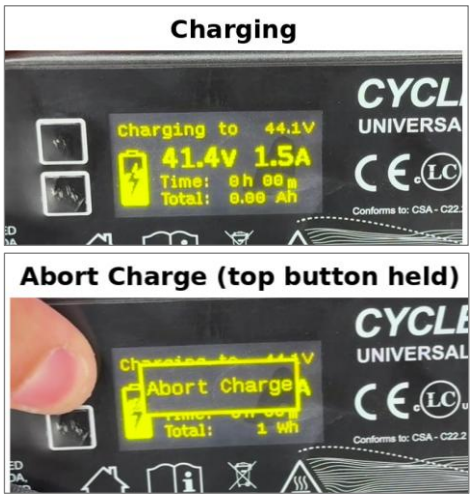


Figure 4: Charging screen (above); Abort Charge message (below)

NOTES:

1) For indoor use only. Connect the Cycle Satiator only to a properly grounded outlet.
2) Always match the charge profile to the nominal voltage on the battery label.
3) Do not charge if the battery **STATUS** light is blinking. Contact Ethium support.
4) The alligator clip charge lead is included with the Cycle Satiator kit.
5) For any issues encountered, contact Ethium Technical Support by calling 210-302-7700, or by e-mail at support@ethium.com.