



BATTERY HEALTH

Low Voltage Cut Off: If you are using an aftermarket controller you are going to set a low voltage cut off to make sure you don't drain your cells past a point of no return.

- 60V Gladiators: The lowest we recommend is 46.4v which is 2.9v per cell group.
- 72V Gladiators: The lowest we recommend is 58V which is 2.9V per cell.

Storing your battery: You will want to store your battery not based on percent, but based on Voltage. Just below nominal Voltage is going to be the healthiest for your battery when storing long term.

- 60V Gladiators: between 54.4V-57.6V
- 72V Gladiators: between 68V-72V

Keep your battery in a temperature controlled, dry environment any time you are storing it. It is best to never store your battery completely drained or at 100%.

Balance Charging: Balance charging can be a preventative measure - it keeps the cells more in-line long term and helps counter imbalance issues before they even happen. We recommend doing a 48 hour balance charge every few months.

Keep in mind. The light on the charger will turn green or in some cases turn off. It will turn back on when needed for balancing.

iOS



**SMART
BMS**

Scan to Download

Android



To connect to the app for the first time, you will want to make sure your Gladiator is plugged in and charging. Once this is achieved, you should be able to find your device in the app.

To select the correct view, you will want to choose "single cell" when first entering the app.

The only things you will need to use within the app is the **voltage, temperature** and **cell levels**. Other aspects of the app will give incorrect readings, so don't be alarmed if your app looks like it's giving strange readings, such as the amount of cycles.

READING YOUR SMART BMS CELL LEVELS

You will find your individual cell levels under the name *Battery Strings*. Every once in a while you will want to make sure everything is balanced and within tolerance. Cell levels should stay even, but as your battery is used there will be some variation. The healthy tolerance range of your cells should be within 0.050V of each other. If they look out of balance plug your battery in for a 48 hour charge. If you are still noticing cells out of tolerance, contact our support team.

DISPLAY GUIDE

Gladiator must be **CHARGED TO FULL** before first use to calibrate your display.

To maintain accurate capacity (AH) and percentage (%) readings leave the screen on while riding and when charging*. The screen is unable to detect changes to capacity when off.

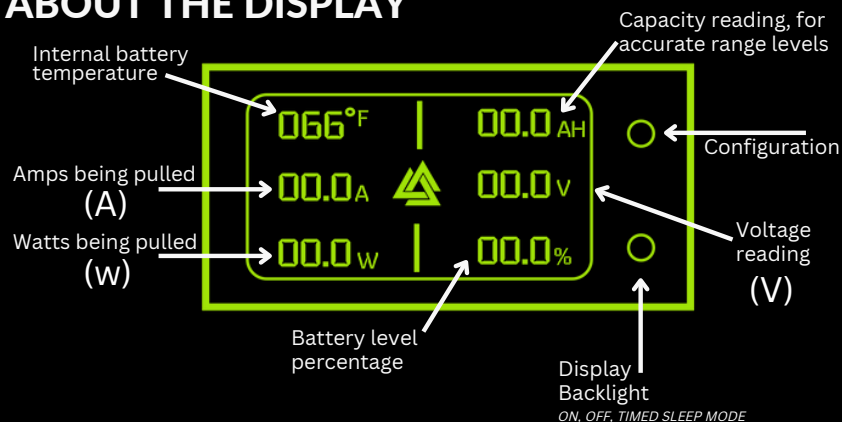
*Your display recalibrates every time you charge it to full, regardless if it is on or off. It only needs to remain on during charging if you are not charging all the way.

If you forgot to turn your display on during your ride and the percentage / capacity is not accurate, charging to full will resolve it. Your Voltage (V) will always be accurate no matter what.

Your display will come preconfigured so there is no need to do anything on your end. If you are curious about configuration, or accidentally set something you did not mean to, please refer to the configuration page.

The new display is meant to give you a more in-depth experience with your battery. With Voltage, Amp Hours, Watts, percentage, Amps, and temperature readings readily available, you can be totally in-sync with your battery.

ABOUT THE DISPLAY



CONFIGURATION GUIDE

COMES PRE-CONFIGURED

BACKLIGHT CONTROL:

While on the main screen, press the bottom button to toggle the backlight on or off.

CLEARING THE CURRENT (A) AND WATT (W) READING:

While on the main screen, hold the bottom button for approximately one second before releasing it. This will reset the current (A) reading to zero.

SETTING THE PARAMETERS OF THE BATTERY AND THE FAULT ALARMS:

While on the main screen, press the top button to access the settings menu. The top button can now be pressed again to cycle through the following parameters:

“AH XXX.X”: Rated capacity (amp-hours) of the battery

“FU XXX.X”: Voltage of the battery once fully charged

These are used to calibrate the capacity readings on the main screen.

“HU XXX.X”: Overvoltage alarm

“LU XXX.X”: Undervoltage alarm

“HA XXX.X”: Overcurrent alarm

These will cause either the voltage or amperage reading to flash if their respective conditions are met while riding. A setting of “000.0” will disable the alarm.

Once the desired parameter is selected, the bottom button can be pressed to increase the highlighted number by one. Waiting five seconds after changing a number will automatically skip to the next variable in the sequence.

To save any changes made, hold the top button for approximately one second before releasing it. If performed correctly, the screen will flash and the settings will be saved.