

Battery Optimization Tips

1. **Fully charge your phone's battery prior to the race start**

Tip: Use car chargers or portable battery charging devices right up to the race start. Wait to turn the tracking on until about 10 minutes before the race starts.

2. **Do NOT use Wi-Fi**

Most people will connect to Wi-Fi to save on data and to overcome their provider's limited service for a given area. This is fine when you are stationary or indoors, but it doesn't work well with GPS tracking across event courses.

Using Wi-Fi can cause your tracking to turn off as you move away from the Wi-Fi area. Plus, your battery will drain at a much faster rate as your phone attempts to make new connections as you move along the course.

You may receive a prompt from Apple saying Wi-Fi will improve your location services. Disregard this prompt, and make sure to use your cellular service provider when you turn your tracking on.

3. **Consider a new phone, or a replacement battery**

Clearly, this wouldn't just be for RaceJoy, but it is something we recommend when people are experiencing difficulties with battery life in general. The newer phones and software are designed to make more optimal use of the phone's battery.

4. **Turn on Airplane Mode in poor cell zones**

Some race courses have poor to no cell service due to the geographic terrain. Your phone will continue trying to get a connection in poor cell areas and this will drain your battery at a much faster rate. We suggest you temporarily turn on Airplane Mode in known trouble areas. All progress will be sent once you get cell service.

5. **Use a portable battery charger**

These can be purchased online and are ideal for both participants and spectators. They are lightweight and a good option for those who expect to be out on the course for a longer period of time or who wish to keep other apps running during the event.

6. **Avoid or limit screen time, phone camera and video taking when using Live Tracking**

Participants and spectators should avoid using the device's camera and, especially, video functions. These significantly utilize the device's battery and should be avoided unless you have a battery backup plan.

7. **Turn off other tracking apps**

Some tracking apps have come a long way with optimizing your phone's battery. However, if you are using a training app that you know drains your battery, it will drain your phone battery that much faster on race day. We suggest you either use RaceJoy or your preferred tracking app.

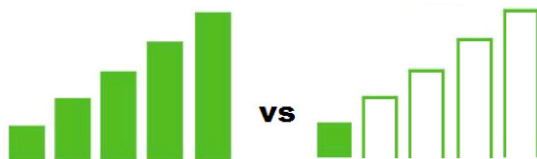
8. **Turn off non-essential applications**

RaceJoy works well with other mobile apps. However, many applications continually pull on your phone's resources behind the scenes and should be temporarily shut down to prolong your phone's battery life on race day.

Battery Drainers

Poor cell provider coverage – Each cell provider's coverage is different for a given region and race – some provide strong coverage while others have weaker coverage (AT&T is stronger than Verizon or vice versa).

If you are at a race and your cell provider's service is weak as shown with the number of bars on the top of your screen, then this is going to drain your battery at a much faster rate as the phone re-attempts to make connections. There really isn't anything you can do to get around this other than maybe turn off your phone or tracking temporarily if you see the battery is depleting fast.



Limited data bandwidth – Some providers may offer strong cell connections, but have limited data bandwidth in a given region. When this happens you will see pages not loading fully or time outs. You may experience this at larger venues where your cell provider is not able to handle the load of phones. This will also drain your battery as your phone re-attempts to transmit and receive data.

To preserve battery, you can close apps that use data (Internet Browser, email, social sharing apps, etc.) and open them when you see the connection is strong again. For large venues, this typically clears up once people get further on the course and away from the start congestion.

Poor weather conditions – When there are significantly poor weather conditions this can affect GPS technology and will cause your phone to attempt to make connections with GPS satellites – further depleting your battery. Though, for most weather conditions, this isn't an issue as GPS technology has improved over the years.

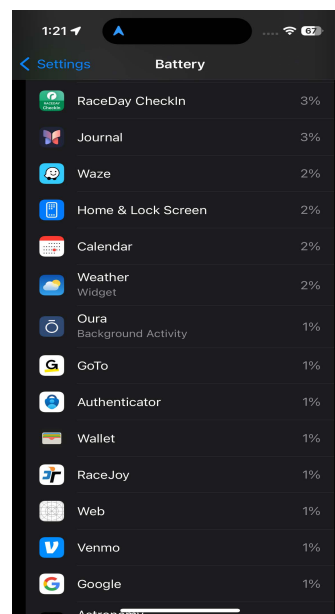
Viewing the screen – The more you view your screen, the more your battery will get used. We suggest supporting family and friends have a backup battery plan if they are going to be at the race site.

What's Using Your Battery?

Many people will have a significant number of applications running on their phones in the background and not realize these open apps are pulling on the phone's resources and its battery.

You can check to see how much each app is using your battery by looking at your phone's Settings area.

For both Android and Apple devices, you can find this under Settings > Battery.



For more information view the FAQ section in the app. If you are still in need of assistance, feel free to contact us

We are happy to help!

www.racejoy.net | support@racejoy.com

**TURN WI-FI
OFF FOR GPS
ACCURACY!**