

How to Check Battery Health on a Google Pixel

Description

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The battery is one of the most critical components of any smartphone, including Google Pixel devices. Over time, battery performance degrades due to charging cycles, heat exposure, and general wear. Monitoring your Pixel's battery health helps you understand its current capacity, optimize usage, and plan for a replacement if necessary.

Google Pixel devices do not have a built-in battery health checker like some other smartphones, but there are several reliable methods to assess battery condition. Below, we explore the best ways to check battery health on a Google Pixel.

Method 1: Using the Built-In Battery Settings

While Google Pixel does not display a direct "battery health" percentage, you can gather useful insights from the battery usage menu.

Steps to Check Battery Usage Stats:

- Open Settings** - Swipe down from the top of the screen and tap the gear icon, or open the **Settings** app from the app drawer.
- Go to Battery** - Scroll down and select **Battery**.
- Tap Battery Usage** - This section shows which apps and services are consuming the most power.
- Check Battery Saver & Adaptive Battery** - These features help extend battery life by limiting background activity.

While this method doesn't provide a direct health percentage, it helps identify abnormal battery drain, which could indicate degradation.

Method 2: Using the Dialer Code (Hidden Battery Stats)

Google Pixel devices have a hidden diagnostic menu that provides battery voltage and temperature details. While it doesn't show health directly, it offers technical data that can be useful.

Steps to Access Hidden Battery Stats:

1. **Open the Phone App** ??? Launch the **Phone** (dialer) app.
2. **Enter the Code** ??? Type ***##*4636#*##*** (this code works on most Android devices, including Pixels).
3. **Select Battery Information** ??? A menu will appear; tap **Battery information**.
4. **Check Battery Status** ??? Here, you???ll see:
5. **Battery Level** (current charge percentage)
6. **Battery Status** (charging, discharging, full)
7. **Battery Temperature** (in Celsius)
8. **Voltage** (in millivolts)

A significantly degraded battery may show unusual voltage fluctuations or higher-than-normal temperatures.

Method 3: Using Third-Party Apps

Since Google Pixel lacks a native battery health tool, third-party apps can provide a more detailed analysis. Some of the best apps for checking battery health include:

1. AccuBattery (Recommended)

AccuBattery is one of the most reliable apps for monitoring battery health. It estimates current capacity compared to the original design capacity.

How to Use AccuBattery:

1. **Download & Install** ??? Get **AccuBattery** from the [Google Play Store](#).
2. **Complete Initial Setup** ??? Follow the on-screen instructions to calibrate the app.
3. **Check Battery Health** ??? After a few charge cycles, the **Health** tab will display:
4. **Estimated capacity** (e.g., 2,800mAh out of 3,000mAh original)
5. **Wear level** (percentage of degradation)
6. **Charging speed & efficiency**

AccuBattery provides a more accurate reading over time, so it???s best to use it for at least a few days.

2. CPU-Z

CPU-Z is a system monitoring app that provides battery voltage, temperature, and health status.

How to Use CPU-Z:

1. **Download & Install** ??? Get **CPU-Z** from the [Google Play Store](#).
2. **Open the App** ??? Grant necessary permissions.
3. **Go to the Battery Tab** ??? Here, you???ll see:
4. **Health status** (Good, Fair, Poor)
5. **Voltage & temperature**

6. Battery technology (Li-Po/Li-Ion)

While CPU-Z doesn't provide a precise capacity estimate, it gives a general health assessment.

3. GSam Battery Monitor

GSam Battery Monitor tracks battery usage patterns and estimates health based on consumption.

How to Use GSam Battery Monitor:

1. **Download & Install** - Get **GSam Battery Monitor** from the [Google Play Store](#).
 2. **Run the App** - Allow it to collect data over a few charge cycles.
 3. **Check Battery Stats** - The app provides:
 4. **Estimated remaining capacity**
 5. **Drain rate & app usage**
 6. **Temperature trends**
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Method 4: Checking Battery Health via ADB (Advanced Users)

For tech-savvy users, **Android Debug Bridge (ADB)** can extract detailed battery statistics from the system.

Steps to Check Battery Health via ADB:

1. **Enable Developer Options**
2. Go to **Settings > About Phone > Tap Build Number 7 times**.
3. **Enable USB Debugging**
4. Go to **Settings > System > Developer Options > Enable USB Debugging**.
5. **Install ADB on Your Computer**
6. Download **Platform Tools** from [Android Developer](#).
7. **Connect Your Pixel to the Computer**
8. Use a USB cable and select **File Transfer (MTP)** mode.
9. **Open Command Prompt/Terminal**
10. Navigate to the **Platform Tools** folder.
11. **Run ADB Commands**
12. Type:
sh
adb shell dumpsys battery
13. Look for:
 - o **Charge counter** (battery capacity in microamp-hours)
 - o **Health status** (Good, Overheat, Dead, etc.)
 - o **Cycle count** (number of full charge cycles)

A high cycle count (typically over 500) indicates significant wear.

Method 5: Physical Inspection & Usage Patterns

If you don't want to use apps or ADB, you can assess battery health through observation:

Signs of a Degraded Battery:

- **Rapid battery drain** Drops from 100% to 20% in a few hours.
- **Overheating** Phone gets unusually hot during charging or use.
- **Swollen battery** Bulging back panel (stop using immediately if this happens).
- **Frequent shutdowns** Phone turns off even with 20-30% battery remaining.
- **Slow charging** Takes much longer to charge than before.

If you notice these issues, your Pixel's battery may need replacement.

How to Extend Your Google Pixel's Battery Life

To maximize battery longevity, follow these best practices:

- **Avoid extreme temperatures** Don't expose your phone to heat (above 35°C/95°F) or cold (below 0°C/32°F).
 - **Use optimized charging** Enable **Adaptive Charging** in **Settings > Battery > Adaptive Preferences**.
 - **Avoid full discharges** Try to keep battery levels between **20% and 80%**.
 - **Use original chargers** Third-party chargers may damage the battery.
 - **Limit fast charging** Use standard charging when possible to reduce heat.
 - **Close background apps** Prevent unnecessary battery drain from unused apps.
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When to Replace Your Google Pixel Battery

If your Pixel's battery health drops below **80% of its original capacity**, performance will degrade significantly. Google recommends replacing the battery if:

- The phone shuts down unexpectedly.
- Battery life is noticeably shorter than before.
- The phone overheats frequently.
- The back panel is swollen (a serious safety hazard).

Battery Replacement Options:

- **Google Pixel Support** Official battery replacement (best for warranty-covered devices).
 - **Authorized Service Centers** Third-party repair shops with genuine parts.
 - **DIY Replacement** Only for experienced users (risk of damaging the phone).
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Final Thoughts

While Google Pixel devices donâ??t have a built-in battery health checker, you can still monitor battery condition using **battery settings, dialer codes, third-party apps, or ADB commands**. Regularly checking battery health helps you optimize usage, prevent unexpected shutdowns, and decide when a replacement is needed.

For the most accurate results, **AccuBattery** is the best third-party option, while **ADB commands** provide the most technical insights. If your Pixelâ??s battery is severely degraded, consider an official replacement to restore performance and safety.

Category

- 1. Uncategorized

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Author

vvfw

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