

How to Check Battery Health on a Samsung Galaxy Phone

Description

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The battery is one of the most critical components of any smartphone, including Samsung Galaxy devices. Over time, battery performance degrades due to charging cycles, heat exposure, and general wear. Monitoring battery health helps users understand when a replacement may be necessary and how to optimize usage for longevity.

Samsung Galaxy phones provide built-in tools to check battery health, along with third-party apps and diagnostic codes for deeper insights. Below is a comprehensive guide on how to assess battery health on a Samsung Galaxy device.

Method 1: Using Samsung Members App (Built-in Tool)

Samsung's official **Members app** offers a straightforward way to check battery health, including capacity, usage history, and optimization tips.

Steps to Check Battery Health via Samsung Members:

- 1. Open the Samsung Members App**
- If not pre-installed, download it from the **Galaxy Store** or **Google Play Store**.
- Launch the app and sign in with your Samsung account.
- 4. Navigate to the Diagnostics Section**
- Tap the **Get Help** tab at the bottom.
- Select **View Tests** under the **Diagnostics** section.
- 7. Run the Battery Test**
- Scroll down and tap **Battery**.
- The app will analyze battery status and display:

- **Battery Health** (Good, Normal, or Weak)
- **Current Battery Capacity** (compared to original capacity)
- **Battery Usage History** (last 7 days)
- **Charging Cycles** (if available)

10. Review Battery Optimization Tips

11. The app may suggest ways to improve battery life, such as:
- Enabling **Power Saving Mode**
 - Reducing screen brightness
 - Closing background apps
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Method 2: Using the Phone's Dialer Code (Hidden Menu)

Samsung Galaxy phones have a hidden **Service Mode** accessible via a dialer code, which provides detailed battery information, including voltage, temperature, and wear level.

Steps to Access Battery Info via Dialer Code:

1. **Open the Phone App**
 2. Launch the **Phone** app as if making a call.
 3. **Enter the Service Mode Code**
 4. Dial ***##*4636#*** (this code works on most Samsung Galaxy models).
 5. If the code doesn't work, try ***#0228#** (for some older models).
 6. **Access Battery Information**
 7. A menu will appear—select **Battery Information**.
 8. Key details displayed:
 - **Battery Status** (Charging/Discharging)
 - **Battery Level** (percentage)
 - **Battery Voltage** (in mV)
 - **Battery Temperature** (in °C or °F)
 - **Battery Health** (Good, Unknown, Overheat, etc.)
 9. **Interpreting the Data**
 10. **Voltage:** A healthy battery should read between **3.7V (discharged)** and **4.2V (fully charged)**.
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11. **Temperature:** Ideal range is 20°C–30°C (68°F–86°F). Higher temps indicate potential issues.

12. **Battery Health:** If marked as **Weak** or **Overheat**, the battery may need replacement.

Method 3: Using Third-Party Apps (AccuBattery & CPU-Z)

While Samsung's built-in tools provide basic insights, third-party apps like **AccuBattery** and **CPU-Z** offer more detailed battery analytics.

Option 1: AccuBattery (Best for Wear & Charging Analysis)

1. **Download AccuBattery**

2. Install from the **Google Play Store**.

3. **Set Up the App**

4. Open AccuBattery and follow the initial setup.

5. The app will start collecting battery data over time.

6. **Check Battery Health**

7. Go to the **Health** tab.

8. Key metrics:
 - Estimated Capacity (compared to design capacity)
 - Battery Wear (percentage of degradation)
 - Charging Speed & Efficiency

9. **Optimize Battery Lifespan**

10. AccuBattery recommends **charging to 80%** to reduce wear.

11. Provides **discharge rate** and **app power consumption** insights.

Option 2: CPU-Z (Hardware & Battery Details)

1. **Download CPU-Z**

2. Install from the **Google Play Store**.

3. **Check Battery Stats**

4. Open the app and go to the **Battery** tab.
 5. Displays:
 - **Health** (Good, Fair, Poor)
 - **Voltage**
 - **Temperature**
 - **Technology** (e.g., Li-ion, Li-Po)
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Method 4: Checking Battery Usage in Settings

Samsung Galaxy phones provide a **battery usage breakdown** in settings, helping identify power-hungry apps and battery drain patterns.

Steps to View Battery Usage:

1. **Open Settings**
 2. Tap the **gear icon** in the app drawer or quick panel.
 3. **Go to Battery & Device Care**
 4. Select **Battery** (or **Device Care** > **Battery** on older models).
 5. **Review Battery Usage**
 6. Tap **Battery Usage** to see:
 - **Screen-on time (SOT)**
 - **App-wise battery consumption**
 - **Background activity**
 7. **Optimize Battery Performance**
 8. Enable **Adaptive Battery** (limits background app usage).
 9. Use **Power Saving Mode** to extend battery life.
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Signs of a Degraded Battery

Even with these tools, physical symptoms can indicate battery wear:

- ⚡ **Rapid Battery Drain** ⚡ Loses charge faster than usual.
 - 🔥 **Overheating** 🔥 Phone gets unusually hot during charging or use.
 - 🐻 **Swollen Battery** 🐻 Back panel bulges (immediate replacement needed).
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⌘ **Random Shutdowns** ⌘ Phone turns off even with 20-30% battery.
⌘ **Slow Charging** ⌘ Takes much longer to charge than before.

If these issues persist, consider **replacing the battery** at an authorized Samsung service center.

Tips to Extend Battery Lifespan

To maximize battery health, follow these best practices:

⌘ **Avoid Extreme Temperatures** ⌘ Keep the phone between **10°C (50°F) to 35°C (95°F)**.
⌘ **Use Original Chargers** ⌘ Third-party chargers may damage the battery.
⌘ **Avoid Full Discharges** ⌘ Charge before the battery drops below **20%**.
⌘ **Limit Fast Charging** ⌘ Use standard charging when possible.
⌘ **Close Unused Apps** ⌘ Background apps drain battery unnecessarily.
⌘ **Enable Dark Mode** ⌘ Reduces power consumption on AMOLED screens.
⌘ **Update Software** ⌘ Samsung releases optimizations in system updates.

Final Thoughts

Monitoring battery health on a Samsung Galaxy phone is essential for maintaining performance and avoiding unexpected shutdowns. Using **Samsung Members, dialer codes, or third-party apps** provides valuable insights into battery wear, voltage, and usage patterns.

If the battery health is **below 80% of its original capacity**, it may be time for a replacement. Following **best charging practices** can significantly extend battery lifespan, ensuring optimal performance for years to come.

Category

- 1. Uncategorized

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