



Mobile companies put a lot of batteries

Which smartphone battery manufacturer made the most money in 2020?

Samsung SDI was among the top 3 smartphone battery manufacturers in 2020. Global revenue from all manufacturers combined reached a total of \$7.5 billion last year, and Samsung was able to capture 15% of the market. The segment was led by Amperex Technology (ATL) with a market share of 42%.

Should smartphone batteries be made more user-replaceable?

The European Parliament recently voted on regulation that would, among other things, require smartphone manufacturers to make their device's batteries more easily user-replaceable. Here's the fine print.

Which smartphone battery manufacturer has the largest market share?

The segment was led by Amperex Technology (ATL) with a market share of 42%. LG Chem was the second-largest smartphone battery manufacturer with a 26% share, and the remaining 17% market share was covered by other, smaller manufacturers.

Why did Samsung and GM invest \$3 billion in EV battery plants?

On Tuesday, Samsung SDI, the battery and electronic materials manufacturing arm of Samsung, and General Motors Co. (GM) announced that they have joined hands to invest more than \$3 billion in an EV battery plant in the US. This move is in line with the automaker's aim to diversify its component supplier portfolio.

Are consumers happy with the battery life of their phones?

The millions of dollars of market research behind every new flagship phone release would seem to suggest suggest that no, a large enough majority of consumers are happy with the battery life that phones currently get and would rather have higher performance numbers rather than significant battery gains, at least in that segment.

Why do mobile devices use lithium ion batteries?

These batteries are chosen by device manufactures for their high energy capacity and high cycle life, meaning they can be charged and discharged many times without degrading. However, lithium-ion technology hasn't changed much in 20 years despite the shrinking and thinning form factor of mobile devices and the increase in complexity of software.

Batteries with pure lithium metal on the negative pole can short circuit and cause a powerful explosion. Instead, what might work is what are called solid-state batteries. There ...

Why has Samsung maxed out at 5,000mAh batteries in flagships for the last several generations? Every Ultra since the S20 has been 5,000mAh, including the S24 Ultra if the leaks are true (which we'll find out in two days). Samsung even makes phones with 6,000mAh batteries (Galaxy F34 and M34) but doesn't sell them in the US.

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While some smartphones boast impressive battery life, such as the Apple iPhone 15 Pro Max, Samsung Galaxy S24 Ultra, and Google Pixel 8 Pro, the reality is that most devices still ...

Unfortunately, phone companies killed swappable batteries for a reason. Gluing down a smartphone to the very last screw makes it easier for manufacturers to design a slimmer and more seamless...

Explore the intricate world of mobile phone batteries in our in-depth guide. Understand their technology, lifespan, and tips for optimizing performance.

The rapid growth of the electric vehicle (EV) market has fueled intense research and development efforts to improve battery technologies, which are key to enhancing EV performance and driving range.

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The average smartphone is unlikely to explode, but it happens. There's not much you can do if shoddy hardware is to blame, but these tips may help prevent your phone from going up in smoke.

Among rechargeable batteries, Lithium-ion (Li-ion) batteries have become the most commonly used energy supply for portable electronic devices such as mobile phones and laptop computers and portable handheld ...

Modern smartphones have built-in protections that prevent overcharging. This myth has some legitimate origins, so it's no surprise it's stuck around. In the days of yore, ...

A few weeks ago we reported that the European Union wanted to force device makers to make batteries user-replaceable, and today it's been confirmed and made official.. The regulation provides that by 2027 portable batteries incorporated into appliances should be removable and replaceable by the end-user, leaving sufficient time for operators to adapt the ...

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Batteries with pure lithium metal on the negative pole can short circuit and cause a powerful explosion. Instead, what might work is what are called solid-state batteries. There have been rumours that Tesla is working on exactly this kind of battery, and Toyota has promised that they will unveil a new electric car with a solid-state ...

Group14 doesn't make batteries; just anode materials. It delivers these in huge quantities to companies like Molycel, which use them in its cells. Creating this technology has been a long road ...

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"I see a lot of companies like Apple and Samsung promising big things on climate but never talking about extending the lifespan of their products or allowing battery replacements," Joshi told ...

Herein, the need for better, more effective energy storage devices such as batteries, supercapacitors, and bio-batteries is critically reviewed. Due to their low maintenance needs, supercapacitors are the devices of choice for energy storage in renewable energy producing facilities, most notably in harnessing wind energy. Moreover, supercapacitors possess robust ...

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