List of things that use batteries

List of things that use batteries

This would save you time on having to decide the right battery for the job.Unfortunately, we do not live in an ideal world where this universal battery exists. The world is filled with many different types of battery that range in size, shape, voltage, current capacity, chemical composition, etc.

The CR2032 is one of the many types of battery available, which is primarily used for smaller electrical and electronic devices. Below is a list of devices that CR2032 batteries are used for;

There are many more applications where CR2032 batteries are used, and this article shall take a closer look at them. Different types of batteriesTo better understand the different applications CR2032 batteries are used for, it will first help to learn about the different batteries available.

This will give you a more clear view of why CR2032 batteries are used for these particular applications. Key characteristics of batteriesThere are a set of characteristics that make each battery unique. The characteristics include;Chemical CompositionVoltage RatingCurrent capacity rating ShapeSizeEnergy densitySpecific Energy Density Chemical compositionBatteries produce electrical power from chemical reactions that occur inside the battery. There are a range of chemicals that are used in different batteries which include;

This is one of the main ratings of a battery and refers to the amount of electrical potential a battery holds given in the standard unit of Volts.All batteries have a theoretical voltage, however, the actual voltage produced will be lower.This is due to polarisation and resistance losses, and is largely dependent on the current drawn by the load and the internal impedance of the battery.

Current capacity is the next major rating of a battery and relates to the amount of charge (current) that a battery is able to hold.Depending on the size of the battery, the current capacity can be given in Amp-Hours (Ah), or Milli-Amp-Hours (mAh).Just like voltage, a battery has a theoretical current capacity that will be higher than its actual measured current capacity.

While there are many different characteristics, the shape and size of a battery are the characteristics that you can physically distinguish one battery from another.. Below is a list of the many different shapes and sizes;9V AA AAA C & D Coin cellButton cellFlat/PouchEnergy densityDifferent sizes and shapes of battery will have different energy densities, which is the energy can derived per unit volume of the weight of the battery.

This is the product of the current capacity and voltage of a battery for one full discharge cycle. It can be derived per unit weight of the battery as well. Primary and secondary batteriesAll batteries no matter size, shape, voltage, current capacity, etc, can be divided up into two categories; Primary and Secondary.Primary batteries are batteries that can only be used once. This is why they are often referred to as disposable or single use batteries.

List of things that use batteries

Once they have fully discharged (and gone flat), you will have to throw them out. They cannot be used again.Secondary batteries on the other hand are rechargeable. This means that when they have fully discharged, you can recharge them (with the help of a battery charger).How many times a battery can be recharged is dependent on its chemical composition which will determine its lifespan.

Secondary batteries are a much better option than primary batteries due to the fact that they do not have to be thrown out. The disposing of single use primary batteries causes large piles in landfills and is not very environmentally friendly.The CR batteryCR is a family of batteries consisting of batteries that resemble a coin, and is why they are termed coin cell batteries.

The CR2032 is a single battery that comes from this family of batteries.CR batteries might look the same, however they have one distinguishing feature being their physical dimension. While they might share the same voltage and shape, they vary in physical size.

Next, the letter "R", tells us the shape of the battery, which is round.The next two numbers in the sequence (in this instance "2" and "0"), provide us information about the diameter of the coin in millimetres. So, this particular battery has a diameter of 20mm.Finally, the last two digits "3" and "2", indicate the height of the batter in millimetres. But to acquire the height, first take the number and divide it by 10.