

# What is battery? What types are available?

The battery is a device with the role of storing electricity which is used very commonly in life. Let's take a closer look at how the battery is composed, how it works, how many types, what are the uses, which ones are good to buy and how to use them properly!

**In this article, TipsMake.com will share with you useful information about battery storage, help you understand better and choose the right battery and use the right product. ways to effectively serve your life and work.**

Batteries are an indispensable part for vehicles, power storage devices, power generation . So if you are still wondering what batteries are, how many types, are applied How in life, do not ignore the information in the following article!

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## What is battery?

The battery is a secondary power source, based on the conversion of electricity into electricity to store and supply electrical equipment. Users can use the battery charger to recharge and use the battery many times before replacing. In fact, batteries are also known by names like batteries, batteries, accumulators, storage batteries, storage batteries.

**Basic structure of an electric storage battery consists of the following parts :**

1. Inside the battery is usually divided into small compartments, each compartment has the positive and negative plates. The negative plate and the positive plate have a separating plate, between the two plates is filled with electrolyte and connected by connecting rods.
2. Outside the battery is surrounded by a cover, above the poles used to connect the battery to the external load or connect the batteries together. In addition, with the battery open, the top of the bottle will have more vent buttons to help vent the air in the environment outside.

**The principle of operation of the battery takes place according to 2 processes based on chemical reactions at the anode and cathode of the battery :**

1. When charging current to the battery: The charging process occurs.
2. When there is a power consumption device connected to the battery: A discharge occurs.



The types of batteries on the market are extremely diverse in design and style.

## **What kind of battery is there?**

The types of batteries on the market today are extremely diverse, plentiful and often classified based on some common grounds as follows:

### **Classification is based on battery electrolyte type**

1. **Alkaline battery** : A type of battery that uses alkaline as an electrolyte.
2. **Acid battery (lead-acid battery)** : A type of battery that uses acid as an electrolyte, which is divided into the following smaller categories:
  1. Open-acid battery: The gas inside the battery can be drained out, including open-water flooded battery to be maintained and open-air battery without maintenance.
  2. Sealed acid battery: The gas inside the battery cannot escape, including dry AGM suction battery and gel dry battery.
3. **Lithium battery** : A battery that uses lithium salts in organic solvents as electrolytes.

### **Sorting based on the purpose of battery use**

1. **Starting battery** : A type of battery used to start the engine start of vehicles, motorcycles, generators, generators .
2. **Telecommunication battery (load cell )** : A type of battery used to maintain the power supply for a long time for UPS, electric vehicles (electric bicycles, electric motorcycles, electric forklifts . ) and other types of electrical equipment.

# Battery characteristics

Basic specifications on the battery include:

1. **Battery voltage** (measured in units of V): It is the difference voltage between the two positive and negative ends of the battery.
2. **Battery capacity** (measured in units of Ah): It is the product between the discharge current and the discharge time of the battery.

In addition, depending on the purpose of use, users may be interested in other parameters such as CCA cold-start current, HCA hot-start current, RC capacity .

Because of its rechargeable nature, which can be reused many times before replacement, compared to batteries (not rechargeable), the battery is highly rated for its ability to save costs and minimize environmental impact. Over time, batteries have been increasingly improved in quality, technology, and diversified in specifications to meet the increasing and abundant user requirements.



Battery is widely used in life.

## Battery application in life

Batteries are widely used in life and production, for example:

1. Used to start vehicles (cars, motorcycles, boats .), engines, machinery (generators .).
2. Power supply for electric vehicles (electric bicycles, electric scooters, electric wheelchairs, electric forklifts, etc.), machinery and electrical equipment (electric fans, electric pesticide sprays, etc.) .
3. As a UPS for UPS, electric stimulator, solar power system to power electrical equipment.

## Buy any kind of good battery?

On the market today there are many different types of batteries with prices ranging from several hundred thousand to several million, so to choose the quality batteries, there are some notes you should not ignore. as follows:

1. Select battery type, specifications and dimensions suitable for the purpose of use.
2. Choosing battery with reliable design, made of good materials, safe and durable.
3. Select battery from reputable brands such as Dong Nai (Pinaco), Vision, Apollo . and reliable shopping addresses to ensure the quality of the device.

**Refer to some quality battery samples, good prices are appreciated by many users today :**

## **How to use batteries properly?**

In order to ensure safe, effective and proper use of the battery, during use, in addition to following the instructions and recommendations of the manufacturer, you should also note the following points:

1. Make sure the battery is fully charged (if necessary, fully charged) before first use.
2. Ensure electrical safety by turning off the equipment before removing and installing batteries.
3. Conduct periodic battery charging even when not used for a long time.
4. Do not charge the battery with a too large charge current, a voltage is too low or too high.
5. Conduct periodic inspection, cleaning and maintenance of batteries.
6. Keep the battery in a cool, dry and level place, out of reach of children, avoid sharp objects, heavy objects on the battery, avoid exposing the battery to sunlight, heat, humidity , corrosive, flammable .



The use, maintenance, charging of batteries . should follow the instructions of the manufacturer.

Hopefully, the above information has helped you to better understand the battery and from that, you can easily choose the right product and meet the needs of use at your home or workplace.

**See also :**

1. What is a UPS? What types are available?
2. Which country is the Apollo electric jack? Is it good?
3. Top 5 cheap generators for home use

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