

Chemical sources of electrical power





Chemical sources of power voltage

- They are the source of DC voltage to obtain electricity (voltage) of the chemical energy stored in the materials from which they are made.
- These resources consist of electrodes and the electrolyte.

Distribution of chemical sources of electrical power

Depending on the size of voltage:: Batteries - electric voltage from 1.2V - 2V Batteries - some monocells connected in series, a voltage of 3V - 24V

According to charging strategies:

- Unrechargeable
- Rechargeable batteries (in cars, mobile phones, cameras, laptops)

Battery

It is the most widely used primary cell voltage of 1.5V



Its disadvantage is that it may leak and damage the appliance.

 Enhanced version of the alkaline primary cell, is used in more demanding appliances, more lasts, has a longer shelf life.

Battery

It is a few monocells connected in series (the electric voltage is added):



9V







GP HIGH

12V

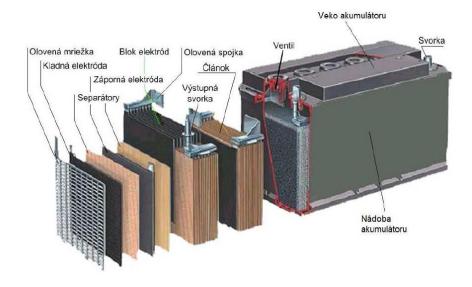
27A, MN27

3 V

127

The accumulator

- It is used in cars, one cell has a voltage 2V, I2V battery is the most common.
- The chemical reactions that take place in it are reversible, the battery can be recharged by passing direct electrical current. This happens especially when driving a car.



Rechargeable sources in the home

Types of rechargeable sources









• Chargers:







Disposal of chemical sources of electrical power

 All of the above sources contain harmful substances, heavy metals, which can not be disposed of with household waste.

 All used batteries must be collected in special containers (even in our school), and then disposed of safely and professionally.







THANKS FOR PAYING ATTENTION !

Image Source: Internet.