

What Is the AA Alkaline Battery Capacity

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For the same battery type, a higher mAh rating usually means a longer running time. When comparing different types of batteries, they must be compared under the same discharge conditions, otherwise, there is no comparability.

Usually, we see NiMH AA batteries in supermarkets or stores, the aa capacity shown on the battery is from 1200mAh to 2500mAh, this value refers to the standard charge and discharge capacity. For example, 2500mAh NiMH AA battery means under the 0.2C, standard charge /discharge to 1.0V, the capacity is 2500mAh,

However, it is rarely seen that alkaline AA battery's capacity is shown on the battery. Because alkaline AA batteries are disposable batteries and there is no charging process. Its reaction principle is to convert chemical energy into electrical energy. In the standard established by the International Electrotechnical Commission, there is no description of capacity, only discharge time shown under different discharge conditions.

Ni-MH batteries are rechargeable batteries. Rechargeable batteries are generally suitable for high-power discharge electrical appliances. When used on high-power electrical appliances, the capacity can be almost completely consumed, so the working time of the battery can generally be seen from the capacity.

However, alkaline batteries are rarely seen with marked capacity. Alkaline batteries are disposable batteries and are not suitable for high-power electrical appliances. Alkaline batteries can maximize their capacity only by slowly discharging them on low-power electrical appliances, otherwise a large part of the capacity cannot be released. When placed in different electrical appliances, alkaline batteries cannot reflect the working time of the battery with the capacity value.

For example, let's make a comparison. A 2500mAh Ni-MH AA battery and a 2500mAh alkaline battery are used in the same electric toothbrush. The electric toothbrush is used as a high-power electrical appliance, and its use time. Ni-MH AA battery must be higher than alkaline Sex AA battery, and much higher.

When we buy rechargeable batteries, we can refer to the capacity unit, but when we buy alkaline batteries, we can't look at the capacity. It depends on the needs of our own electrical appliances. If it is a high-power electrical appliance, it is recommended to use nickel-metal hydride rechargeable batteries.

Alkaline batteries are on the outer packaging. You can't see the capacity, but you usually see plus alkaline, ultra alkaline, and so on. These modified descriptions mean that this battery can last longer than ordinary alkaline batteries. Of course, the price will be higher.



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I am a senior sales with 15 years in the battery industry and a bachelor's degree in economics. I will be sharing some of my expertise on batteries and my insights into the battery industry in my blog, which should help you with your purchases in China.

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