Electric bicycle lithium battery for e bike

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Electric bike batteries are one of the most important components of an electric bike. Without a good electric bike battery, you"re not going to get very far. Battery technology is evolving rapidly, so it"s hard to know what type of battery is best. Here"s a complete guide to battery types for electric bikes, plus how to get the most out of your battery (in terms of battery life and performance).

First, here is a video about the differences between various electric bike batteries:

Lead-acid electric bike batteries are cheap and easy to recycle. However, they are sensitive to bad treatment, and they don"t last very long. They are not a good choice if you"re serious about using your bike to commute over fairly long distances.

Lead-acid batteries are cheap for several reasons. They weigh twice as much as NiMh batteries, and three times as much as lithium batteries. These batteries have much less usable capacity than NiMh batteries or lithium batteries. Also, they only last for half as long as nickel or lithium batteries.

Warning: if a cheap electric bike is advertised and the advert does not state what kind of battery it has, you can pretty much be certain that it has a lead-acid battery. It might be cheap, but that does not mean that it"s a bargain. This battery type might be good enough if you want the bike for light recreational use only. But if not, it would be better to avoid these batteries.

Weight for weight, nickel-cadmium (NiCd) batteries have more capacity than lead-acid batteries, and capacity is an important consideration on an electric bike. However, nickel-cadmium is expensive and cadmium is a nasty pollutant and hard to recycle.

NiMh batteries are somewhat more efficient than NiCd batteries, but they are also more expensive. Most people report that NiMh offers little improvement in range over NiCd. On the other hand, they will last longer and are easier to dispose of correctly.

Nonetheless, NiMH batteries are also becoming a rarity, because the market place is being taken over by Lithium-ion (Li-ion) batteries.

Lithium-ion have become the default battery, capturing over 90% of the market. But to complicate matters, there are many different kinds of Li-ion batteries. On the plus side, Li-ion batteries last longer and generate more power for their weight than other batteries. On the negative side, they are fussy little creatures, and require a genius-inspired smorgasbord of electronic features to prevent them from self-destruction and even

catching fire.

Of course, none of those are your problems, as the manufacturer will have sorted out the genius side. But like all good things in life, this comes at a price: this battery type is very expensive, and shows no sign of getting cheaper.

This is a new one, and promises to be no better than the Li-ion battery type in terms of range, weight, or price. However, it can be molded into interesting shapes. They contain no liquid, so they don"t require the heavy protective cases that other batteries need. Also, this absence of free liquid theoretically means that they should be more stable and less vulnerable to problems caused by overcharge, damage or abuse. In general, they seem to be ideal for use in high capacity, low power applications - such as electric bikes.

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