



# E bike battery size chart

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A 36-volt or 48-volt battery is the most typical size for an electric bike, providing 360-watt-hours to over 800-watt-hours (Wh), depending on the number of Amps. However, some e-bikes use a 52-volt battery that produces additional power and speed to assist in climbing steep hills or going over rough terrain.

Battery capacity (size) is one of the most important specifications you should look for in an electric bicycle. It tells you how fast and far you can go on a single charge. Typically, most e-bikes come with either 36-volt or 48-volt battery specified by Amp-Hours (Ah) from 10 Ah to 21 Ah.

On average, an eBike battery lasts 2 to 5 years. Modern Li-ion batteries are rated by charge cycles (400-1000), so the higher this number, the longer the battery should last without significantly impacting the Watt-hour rating. Increase battery lifespan by following the guidelines in the previous section. How much does an eBike battery cost?

How to Choose the Ideal Battery Size for Your Electric Bike. Choosing the right ebike battery isn't about picking the biggest number on the shelf. It's about finding the sweet spot between range and practicality, balancing your riding needs and the battery's capabilities.

I know, Electric bike sizing can be quite confusing. Many e-bikes are available in ONE size that fits all, while some are designated with general sizes, such as SMALL or MEDIUM, and then there are 24-inch and 26-inch e-bikes.

So, which size electric bike do I need? If you are a noob, you might be already scratching your head. Don't worry, I'll break down all the things you need to know about e-bicycle's frame, motor, wheels, and battery sizes.

Manufacturers mostly measure electric-assist bikes based on seat tube length (frame) just like they measure traditional bicycles. However, some manufacturers measure by the diameter of the wheels. There isn't a huge difference between the geometry of non-motorized and motorized bicycles.

To make things more simpler and help you find the right fitting and comfortable e-bike, first understand the basic geometry, measurement, and types of electric bikes.

Most of the brands on Amazon like Heybike, Ancheer, Totem, and Totguard display or size their electric bikes by wheel diameter in INCHES. Below is the standard size chart of cruiser, commuting, mountain, and road electric e-bikes.

Note: Be aware that brands often have their own sizing systems. Unlike conventional bicycles, most small

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wheeled ebikes are foldable and come with adjustable saddle height. Thus, they fit all the adults of average heights.

Most established brands like Bianchi, Specialized, Orbea, Yeti Cycles, and IBIS use a simple XS/S/M/L sizing system. This makes it easier for the consumers to decide which ebike size is best for them.

Battery-powered road bicycles are lighter and have downward curled handlebars, thin tires, and shallow wheels. They are measured in centimeters and have higher stand-over heights, so measuring your inseam length (inside leg) is important here. Make sure there is 1 - 2 inches gap between the top tube and your crotch (inseam length + 1 $\frac{1}{2}$ ?).

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