



Ev charging voltage

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First, we want to clarify that it is fine to charge your EV at any voltage level, namely:

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Opinions vary when talking about the best voltage to charge an EV.

Knowing which voltage is best to charge an EV shouldn't be overcomplicated. However, many people still tend to over-worry about this. We think it stems from the fact that most of us perceive charging time as a disadvantage of owning an EV compared to traditional fossil fuel vehicles. This is another discussion for another time.

For now, let's cover the basics of the voltage level selection process for you.

Now, we understand that some of you prefer to optimize and nitpick which voltage level is best for your situation. Therefore, we'll share our primary considerations when choosing the best voltage to charge your EV.

Stick with us, and you'll also learn:

Well, it depends on what you value and how much you are willing to spend. After all, choosing the "best" electric car charging voltage is often a trade-off between convenience and cost.

For instance, we agree with some of you that DCFCs are the most convenient chargers because you can charge your Tesla Model 3 or Y fully in only 10 to 30 minutes at that level. However, level 3 charging stations are scarce, and they're more expensive in terms of \$ per kWh and require sophisticated infrastructures first.

The table below summarizes your key considerations when choosing an EV charging station.

As you can see, a 120V charging station is the easiest to install among the bunch, while a 480V DC fast-charging station still isn't economical for home installation, but it gives the quickest charging time.

Given the trade-offs of choosing chargers at the ends of the spectrum, we think that choosing the best voltage to charge an EV becomes a Goldilocks exercise where the middle option (208V-240V) is your best bet.

Contact us for free full report



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