

## Battery ev charger

What do we talk about when we talk about portable electric car chargers?

When you buy a new electric car, in most cases you will find in the package a portable device (120-volt) for connecting to your home power grid. Some electric cars come with more powerful devices capable of 120 and 240 volts (such as the Turbocord from BMW5 or the more successful OEM for the Audi e-tron).

The devices adapted to the different current (120/240) independently determine the lower or higher incoming voltage, synchronize with the power supply limits of the electric car, and then deliver different power current depending on the situation.

Depending on the electric car, at Level 1 the charging speed will be 3&ndash;5 mph, and when you connect a Level-2 device the speed will increase to 20&ndash;40 mph. Since we are talking about portable devices here, we do not take into account other hardwired chargers up to 80 amps.

240 volts can charge your electric car six times faster than a regular 120-volt outlet. A simple but temporary way to connect to 240 volts can be an outlet from your air conditioner or clothes dryer. If you decide to use the charger permanently, it&rsquo;s more practical and safe to contact an electrician and arrange for a separate outlet, NEMA 6-20 or NEMA 14-50, near the unit&rsquo;s planned connection.

If you have a 50-amp breaker, the standard is that the device can only get four-fifths of the rated power. Therefore, if you connect a portable battery charger to a NEMA 14-50, it will only get 40 amps. So do the math: 40 amps times 240 volts equals 9,600 watts.

The Blink portable EV charger6 is a specially designed device that runs on gasoline. Its price is 4&ndash;5 times higher than the average power generator, when chosen with the right parameters, can be used to recharge electric cars.

Some models of portable generators are quite compact and can help on the road, but the charging speed is not high. The more powerful 12kW models are less often purchased by enthusiasts. It is important to note that not all models are suitable for chargers. We wrote about the requirements for such gasoline generators in this review.

Electric car owners use both specialized devices (ZipCharge or Roadie) and non-electric car charging stations for portable charging from a spare battery.

You can find general purpose power banks or a hybrid battery and J1772 charging cable on sale, though these models may contain a drawback:



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This is a DC charger (this current does not come from an outlet) designed primarily for roadside assistance. Its modular construction contains several units, each about 3.7kWh.

Depending on the number of units, the electric car's possible mileage from the resulting charge is determined. Roadie7 predicts 17.5 kWh, which, depending on the electric car model, will provide 65–75 miles after charging. This is based on an average speed claimed at around 60 mph, which means you can get enough charge for 15 miles in 15 minutes.

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