

# How does a 72v battery pack drive a 12v motor

What is a 72V motorcycle battery?

With their applications ranging from electric motorcycles to scooters and off-road bikes, 72v batteries are driving the future of eco-friendly and efficient transportation. Embrace the power of electric mobility with a reliable and high-performing 72v motorcycle battery!

Can a 72 volt battery run a 48 volt motor?

With a 72 Volt battery with the same Ah instead of a 48 Volt one you'll have 72/48 the power, so 1.5 times the range. But your motor has a fixed voltage. So you need more Ah for more range. Yes, as you would have to use less power from the pack to achieve the same distance.

How much power does a 12 volt battery use?

If you have a 12 Volt battery with 36 Ah this is 432 Wh and will forward you roughly 43.2 kilometres. Often more, but this is the worst case. Presume a consumption of 7 to 10 Wh per kilometre. With a 36 Volt battery with 20 Ah you'll have 720 Wh and reach at least 72 kilometres distance.

What is the difference between 25V and 50V batteries?

A 25v battery will need to supply 4 amps but a 50v battery will only need 2 amps. If you had a two 4ah batteries but one was 25 and the other was 50, the 25V battery will only run for 1 hour but the 50v battery will run for 2 hrs. All things being equal, the 50v will go twice as far as the 25v one.

How do you convert a single battery to a motor?

If you could convert the single battery's voltage to motor voltage at 100% efficiency (& you can't) then current at current = Power/Volts = 8200W/3.2V ≈ 2500 A. (!!!!) . 10 cells in series give you 10 x the run time (30+ minutes) at 1/10th the current (250A) and you are beginning to get realistic. Beginning. ...

How much power does a 36 volt battery use?

Presume a consumption of 7 to 10 Wh per kilometre. With a 36 Volt battery with 20 Ah you'll have 720 Wh and reach at least 72 kilometres distance. With a 72 Volt battery with the same Ah instead of a 48 Volt one you'll have 72/48 the power, so 1.5 times the range. But your motor has a fixed voltage. So you need more Ah for more range.

For the alternator to charge the battery well, you need to drive for a while. Short trips don't let the alternator fully charge the battery. Longer drives help the alternator fully ...

**Battery Voltage:** This is the nominal voltage of the battery pack. A 60V battery typically consists of 16 lithium cells in series (each cell has a nominal voltage of about 3.7V). ...

## How does a 72v battery pack drive a 12v motor

I am planning on building a Li-ion (cylindrical cells) 21700 battery pack for a 60V system for my future e-scooter. And I live off-grid. Can you use a 12V or 24V solar panel to ...

The battery offers max 1280A (for 10 sec), so it offers  $1280A * 3.2V = 4 \text{ kW}$ , so ...

All battery packs have an amp hour listed, and a very important "C" rating (you will see this in ...

A 72v electric motorcycle battery provides a higher voltage compared to ...

trampaboards makes the vesc 100/250 you want for that 72v brushless motor ..... i appoligize i went with the 72v burhsless 5kw motor because the size and the fact that the vesc 100/250 ...

With either a 48v or 72v battery pack attached, both end up surprisingly around the same top ...

The 3,000W motor on 72V will give you more pulling power than the same motor on 60V or 48V since power = volts \* current (amps), but the higher voltage will also result in a higher top ...

A battery with max dis-charge-current 25A is too close to the limit with  $2x 11.5 = 23A$ . So my recommendation is a 12V lead-acid-battery dis-charge-current minimum 30A ...

With either a 48v or 72v battery pack attached, both end up surprisingly around the same top speed, the 72v just gets you there faster. Motor hold up very well after the mods ...

I think performance can be pretty decent with a 72v systems for many small ...

Discover the features, benefits, and applications of 72v motorcycle batteries. Learn how to choose the right battery and maintain it for optimal performance. Explore the ...

With a mid drive, the motor turns the cranks. So do you plan to pedal? The BBSHD, for example can hit 150 RPM with a 48V battery. If you run it with a 72V battery, it can hit 225 RPM. You ...

All battery packs have an amp hour listed, and a very important "C" rating (you will see this in your research) that must be considered and calculated to exceed your motor ...

There is an arduino running the whole game and it's supply is a standalone 12v battery, and the driver board and the motor itself is being supplied by a 6x12V battery pack. ...

There is an arduino running the whole game and it's supply is a standalone ...

If you run it with a 72V battery, it can hit 225 RPM. You can't pedal that fast, so most of your ...

## How does a 72v battery pack drive a 12v motor

I think performance can be pretty decent with a 72v systems for many small car who used proper battery pack, motor and transmission. After all, motor shaft power at 72v x ...

The battery offers max 1280A (for 10 sec), so it offers  $1280A \cdot 3.2V = 4 \text{ kW}$ , so it cannot run the motor on nominal RPM (8.2kW) with 13N-m - even using DC/DC you need ...

Web: <https://centrifugalslurrypump.es>