

What is the reaction of using 60V battery with 48V inverter





Overview

Using a 60V inverter with a 48V system is technically possible, but it comes with several risks and considerations:

- 1. **Overheating:** Operating a 48V motor at 60V can lead to overheating and potential damage.
- 2. **Reduced Lifespan:** Consistent operation at higher voltage may cause premature wear on the motor.
- 2. **Safety Hazards:** There are safety risks involved, including voiding warranties and creating hazardous conditions.
- 3. **Voltage Compatibility:** While some 48V motors can handle up to 60V, it is not recommended for regular use.

3. In summary, while it may work in some cases, it is advisable to avoid using a 60V inverter with a 48V system to prevent damage and safety issues.

[pdf] Can a 60V battery power a 48V motor?

A 48V motor is designed to handle 48 volts of electrical input. When considering using a 60V battery on a 48V motor, compatibility is an important factor.

Can a 60V battery be used on a 48V motor?

Using a 60V battery on a 48V motor can pose some risks and safety concerns. One of the main risks is the potential for overheating. The motor may not be able to handle the increased power, leading to excessive heat generation.

Should I use a 60V to 48V converter?

If you want to use all the remaining cells a "dc to dc converter 60V to 48V" would do just that. However they are hard to get for that voltage and high amps. if your controller can take 60v it will be fine just keep an eye on motor temps and avoid WOT if you find it gets hot Dana Point So. Cal It's. Best to have one big battery.

What happens if a 60v battery reaches 40km/h?

If you still cruised at 40km/h on a 60v battery, you could be at 66% of your no load speed. This is near the efficiency cliff, so you'd probably be burning up ~20-25% of your energy has heat. Below about 50% of no load speed, efficiency drops like a rock. This will raise the temperature of your motor.



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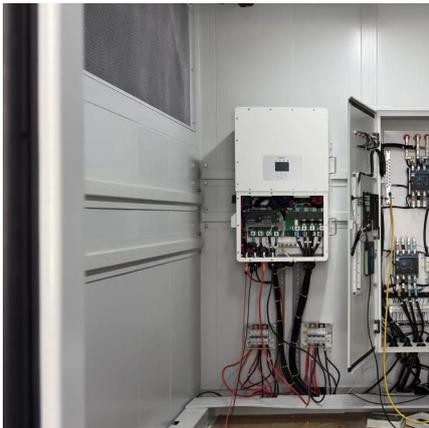
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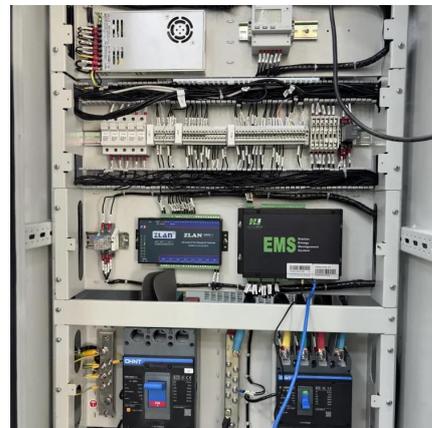


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60V inverter option

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