ContainerPower Energy Solutions

How to match the battery cabinet with the motor power

Overview

Optimal motor and battery pairing relies on the selection of an efficient motor as well as a battery with the appropriate capacity, cost, size, maintainability, and discharge duration and curve. Battery-powered AGVs for automated warehousing require brushless.

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" WORK IT OUT YOURSELF! Use this simple formula and the linked spreadsheet by SSGT- No more need to ask "will battery X work with my motors?

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Matching your motor voltage and your battery voltage cannot be understated if you want your setup to even work, let alone cause serious damage. If your motor is rated at 36v, get a 36v battery and so on. Getting a 72v battery and a 48v motor will likely fry your electronics located in the motors.

Battery-powered motor applications need careful design work to match motor performance and power-consumption profiles to the battery type. Optimal motor and battery pairing relies on the selection of an efficient motor as well as a battery with the appropriate capacity, cost, size, maintainability.

How do you match a motor to a battery?

By the title how do you do it?

in other words, how do you select a motor and a battery that will work for it?

I have looked for hours and days online but I can’t seem to understand. For example I heard that the motor specs gives you the information you need.

If I already have a motor, how do I identify what battery (ies) will be sufficient to power it. For instance, this is one of the motors I am interested in: And here is a battery I am looking at:.

Proper motor selection for any automated equipment application is critical to optimizing system performance, however, battery-powered applications require additional considerations for both the motor and the battery. This article reviews the process for selecting the correct motor-battery. How do you choose a battery-powered motor?

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How do I choose a battery-powered AGV motor?

Optimal motor and battery pairing relies on the selection of an efficient motor as well as a battery with the appropriate capacity, cost, size, maintainability, and discharge duration and curve. Battery-powered AGVs for automated warehousing require brushless dc motors engineered for top efficiency.

Should I get a 36V battery?

If your motor is rated at 36v, get a 36v battery and so on. Getting a 72v battery and a 48v motor will likely fry your electronics located in the motors controller. Using too low of a voltage will not give enough voltage to even register in the controller and you will not be able to power it up.

Which motor is best for a battery-powered application?

One key motor performance parameter to consider in a battery-powered application is efficiency. Maximizing motor efficiency helps minimize the required power capacity and hence the size and cost of the battery solution. For this reason, brushless DC (BLDC) motors are preferred over brushed DC motors but are typically higher in price.

What determines the rated power of an electric motor?

In any electric motor application, the target equipment performance dictates the required motor power. The rated power of the motor is calculated from the combination of speed, torque, and duty cycle of the application that in turn

establishes the critical voltage, current, and capacity requirements of the battery.

Is Kärcher a battery-powered electric mop?

Shown here is a Kärcher FC 5 Cordless Premium electric mop — one of an array of motor-reliant consumer and commercial solutions from Kärcher. Battery-powered motor applications need careful design work to match motor performance and power-consumption profiles to the battery type.

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