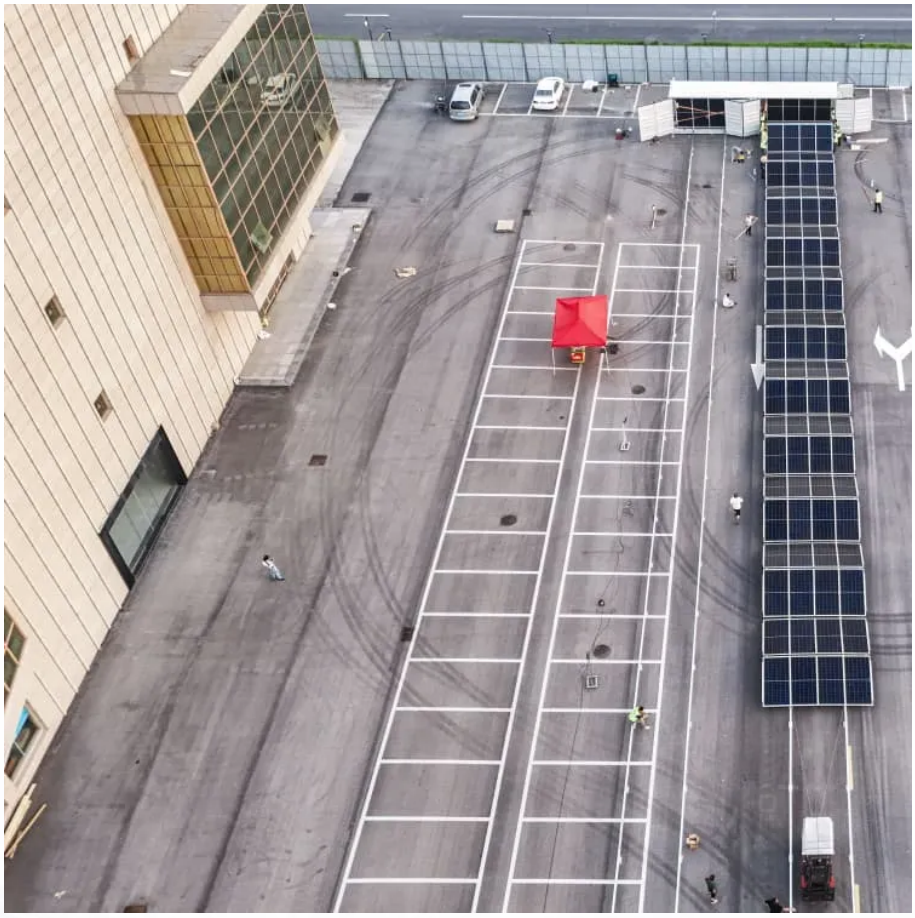
A-Core Container

How big a pull-down resistor should I use for a 12v inverter



Overview

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20R at 48V is about 2.5A or therabouts, I'd suggest that will be just fine, give it a suitably rated switch and you're good to go. You're just trying to avoid that massive (almost infinite) current splat when you first connect the discharged inverter. The Seplos 48V BMS has a 51R 10W pre-charge.

The pull-down resistor holds the logic signal near to zero volts (0V) when no other active device is connected. It should have a larger resistance than the impedance of the logic circuit generating the HIGH, so the effect of a lower value will work depends on your circuit. Since you didn't tell us.

How much resistance should a pull down resistor have?

A low enough value to swamp any noise that is present, but also the highest possible value if you want to minimize current draw. So it depends on the electrical noise level in your environment, the wire lengths, etc. For short runs in typical.

Pull-up resistors are used to make sure you have a HIGH state on the input pin when the button is not pushed. Without one, your input will be floating, and you risk that the input randomly changes between HIGH and LOW as it picks up noise in the air. Rule 1: The value can’t be too high. The higher.

I'd like to start / stop a piece of software running on an in-car computer depending on the 12V_IGN rail going on resp. off. This happens when the ignition switch goes in / resp. out of position RUN. See these two scans from the original service manual. The computer corresponds to the radio on the.

Pull-up and pull-down resistors are often used when interfacing a switch or some other input with a microcontroller or other digital gates. They are often used to provide a controlled current flow into a resistive sensor prior to analog to digital conversion of the sensor output voltage signal.

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