



1500w inverter size chart

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Learning what cable to use for an inverter is a vital step in the process of powering your off-grid system, even if it may not initially seem as important as figuring out the right inverter to use or how much battery power you'll need for your inverters. Finding power inverter cables and power inverter cords that work safely is just as essential.

In fact, it is very important to be sure you are using the appropriate cable size for your inverter and battery, due to safety concerns. Failing to do so could lead to your inverter not supporting full loads and overheating, which is a potential fire hazard. Use this as a guide for choosing the proper cable size, and be sure to contact a professional electrician or our tech team with any additional questions you may have.

1. What size inverter do you have? Noting the size of inverter that you're using is the first step in finding safe cables. Whether you need to know what size cables for a 2000-watt inverter or what size fuse for a 400-watt inverter, everything comes down to the power you're producing. The inverter's size will be located at the front of its product description.

2. What is the DC voltage of your battery bank? The DC voltage will be a measurement of the total DC voltage produced by your battery bank. If you're unsure the difference between the power values, you can read our handy guide on how 12-, 24- and 48-volt DC systems differ.

3. Now divide the inverter's wattage by your battery voltage; this will give you the maximum current for your cables. This will provide you with an approximation that you can use to pick out your inverter wire size or inverter cable size. $(5000 \text{ W}) / (24 \text{ Vdc}) = 208.33 \text{ A}$

*** PLEASE NOTE: For distances over 10 feet, voltage drop over the cables will occur due to resistance through the wiring. If you will need to run cables longer than 10 feet, it is recommended that you increase the cable size in order to compensate for voltage loss. If you are unsure about your application, feel free to give us a call and we will be able to assist you in finding the right cable.

By using this inverter wire size calculator, you'll learn how to size battery cables, but that's only one step of the process. Check out the rest of our helpful guides in creating your off-grid power system, from selecting the right inverter to measuring how much battery power you'll need to produce in order to keep your inverter running and even how to hook up your inverter to your batteries.

hi laura, desthy here from the philippines. I am installing a solar power system in my house and my inverter is a 3kw hybrid 48v system. I computed my max current to be at around 62.5amps and i intend to use awg8 thhn wire as my battery cable since in my location, battery cables are scarce. would this be ok? would really appreciate your opinion on this. thanks!

Contact us for free full report

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