Power inverter troubleshooting guide

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If you"re living in a remote place where you have only Direct current for power, a power inverter is a necessity. The same applies if you"re going camping on an RV or have only the SUV for power. Power inverters or digital inverters are extraordinarily efficient when it comes to using batteries as a bigger power source. They will help you turn the DC from your car battery into AC and let you charge your devices, run a laptop or so.

However, if you end up getting a faulty power inverter, and have no other option but to repair it yourself, this article is for you. I"ll talk about everything you should know about power inverters, what they are, and how they work. Once you know how your inverter works, you"ll get through the processes you should follow to repair it as well. Stay with the process and get your inverter repaired all by yourself.

Knowing all the reasons why your inverter could go wrong will help you decide the proper troubleshooting techniques. Here are the most common reasons why your inverter might have stopped working or don"t function well:

If you end up getting a faulty inverter that you might be thinking of being dead, it may not be completely out of order after all! If the problem is repairable at home, you can do it yourself by checking the inverter. Here are the things you can do if you have ended up with a faulty power inverter lately:

When a power inverter isn"t turning on after pushing the power switch, the problem might be with the switch! At first, you have to check if it"s okay or not, and the process is simple to do. Unplug the power inverter from its power source, plug in another appliance to it, and turn it on. If it doesn"t turn on, you have to get a replacement for the power switch. Call a professional electrician and get a replacement unit for the switch to change it. If you"re okay with doing it yourself, you can replace it yourself as well.

The fault may not be with the inverter at all in the first place when your power inverter isn"t working. The problem might also be with the battery, especially if you"re running it for a long time. The battery might have been weakened and discharged quickly, or it might have a fault inside. If your battery is weak, you might have to get it replaced or repaired if possible. If the battery is lead-acid based and running out of acid, you have to get it acid replacement, and that"ll be enough.

If you have found out the faulty parts, it"s time to order their replacements and install them. Get the replacement parts from the same manufacturer if possible, to ensure better quality. Once you have the components, remove the older parts from the inverter, and carefully install the new one. In the removing process, remember how you removed it and which way the part goes. It will help you get the new part in its place correctly.

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This guide is intended to assist customers with troubleshooting their Renogy Power Inverters without speaking to a technician. The below steps are universal for all of our Power Inverters and will give our customers a good place to start if they believe their Inverter is not functioning properly.

The Inverter can only power AC devices that are within its rated wattage, for instance a 1000W inverter can only power AC devices that do not exceed 1000W. Try connecting an AC device that does not exceed the rated wattage of the inverter.

If the wires get extremely hot when running AC loads, turn off the inverter and verify the proper length / gauge wire (refer to manual) is being used and ensure all connections are tight and secure.