

## SolarTech Power Solutions

# Can the inverter be changed to 60 volts



## Overview

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The owners manual I have for the inverter says it is not suitable for feeding in to an electrical distribution panel and to not bond ground and neutral or damage to the inverter may occur. Ok, all of this is fine. I can use this one simply to run an item directly. My query is to try to understand.

The project also incorporates a 60v > 12v converter for stepping down the battery pack voltage for 12v outlets, cooling fans, etc. Theoretically, the power from the battery would go directly to the inverter, but since my inverter can only handle 12V input and the battery pack is 56V, I'm guessing I.

You can NOT easily change the frequency of AC power; the simplest way is to convert it to DC then use a inverter to convert it back to AC with the frequency you need. Outback Power Inverters (and other inverters) are designed to output one frequency either 50 or 60Hz. The newer Outback FXR models.

I understand if there is no 110V option I'm ok, I just need the 50hz changed to 60hz. So what appliances do you have that can not run on 50 hertz 120v 1) A lot of VFDs won't work unless the output is 3 phase. 2) VFDs usually don't like their output to be switched. They like the load connected at.

I need to transform the frequency from 60 Hz (220 V) to 50 Hz (220 or 230 V). Alternatively I can use 110 V, 60 Hz for the required output. I'm looking to find a cost and space effective solution. It is for a build-in coffee machine and build-in microwave appliance bought in Europe (max. 1 kW each).

When installing a victron Mjultiplus II 15KW 230 Volt inverter/charger and a Victron autotransformer to ouput 240 volt 60 Hertz the MK3 isn't changing the Hertz from 50 to 60. The data download shows it changed but it is not being changed and the Cerbo GX shows 240 Volts 50 Hertz. I know the Hertz.

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