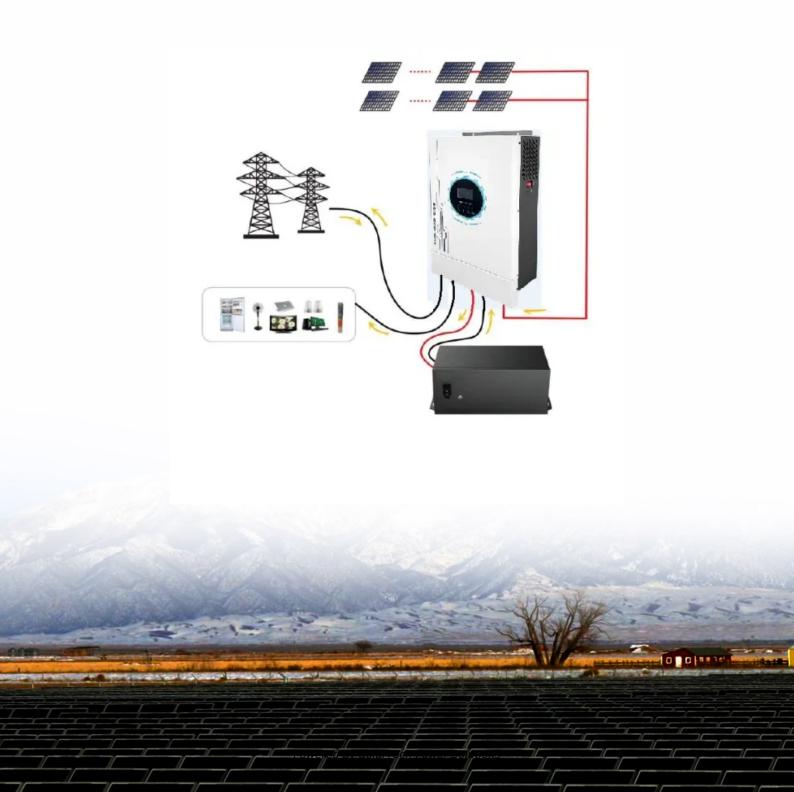


#### **SolarTech Power Solutions**

# How much frequency does a high frequency inverter require





#### **Overview**

The high frequency output of a high frequency inverter is ideal for powering electronic devices, such as computers and televisions. High frequency inverters typically have an output of 20kHz or higher. Should I buy a high frequency inverter or low frequency?

If you need to power heavy-duty appliances, such as air conditioners and refrigerators, a low frequency inverter may be the best option. If you need to power electronic devices, such as computers and televisions, a high frequency inverter may be the better option.

What are the advantages of a high frequency inverter?

High frequency inverters typically have an output of 20kHz or higher. Smaller size and weight compared to low-frequency inverters. Higher efficiency due to reduced power losses. Greater accuracy in output waveform due to the high frequency. Lower electromagnetic interference (EMI) due to higher switching frequency.

What is a high frequency inverter?

The high frequency inverter can deliver the same power at higher frequency with a much smaller and lighter transformer, as a result, the HF inverter is often called transformer-less inverter, or TL inverter.

What determines a high or low frequency inverter?

Size and tolerances of the transistors used in the inversion process, and the speed at which they operate determines the classification of high or low frequency. The large majority of inverters available in the retail market are high frequency.

How many Hz should an inverter output be?

The frequency of the inverter output must be in the range of 49.7Hz to 50.3Hz or 59.7Hz to 60 Hz according to the region. The variations in the frequency



output of the inverter must not be too large and must be in the range specified above. Maximum Open Circuit Voltage.

What type of inverter do I Need?

Heavy-duty items, such as air conditioners and refrigerators, may require a low frequency inverter with high surge capacity. For electronics like computers and televisions, then a high frequency inverter with a higher efficiency may be preferable.



#### How much frequency does a high frequency inverter require



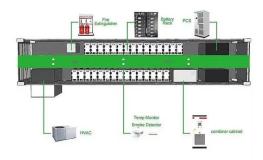
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#### **Explained**

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