

There are 2 types of inverters available for use in consumer applications. These are:

Pure Sine Wave Inverters:

The name "pure sine wave" inverter comes from the wave form of its output, as shown in the above diagram. This is identical to or replicates as closely as possible the normal AC mains. As most electronic products are designed to be powered by sine wave AC, pure sine wave inverters are suitable for all applications, especially motorized devices where it is proven that pure sine wave power will lengthen the product's lifetime and run much quieter. Pure sine wave inverters are more expensive than modified sine wave inverters because they involve a much more complicated design in order to simulate the smooth sine wave output of standard mains power.

Modified Sine Wave Inverters:

Again, modified sine wave are named after their output waveform. The output of the modified sine wave inverter cycles through positive, ground and negative voltage as shown in the diagram above, to give a rough approximation of a sine wave.

Modified sine wave inverters are a cheaper alternative to pure sine wave inverters as they don't require the complicated system needed to smooth and render the output waveform. The main down side with a modified sine wave is that it can introduce electrical noise (buzzing) to inductive and A-V equipment. This is caused by the fast reversal of the output voltage 100 times per second. However, modified sine wave inverters are OK for heat element devices (kettle, heaters, etc) and devices that have an external or built-in adaptor (laptop, TV, etc).

▲ How do I choose between Modified Sine Wave or Pure Sine Wave Inverters?

1. Inductive loads such as microwave ovens run faster, quieter, cooler and more efficiently on pure sine wave.

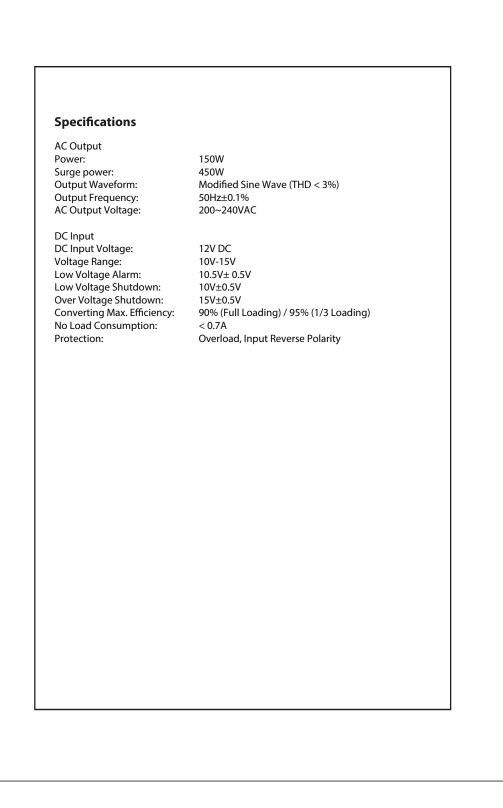
2. Pure sine wave reduces audible and electrical noise (buzzing) in fans, fluorescent lights, audio amplifiers, TVs etc

3. Pure sine wave prevents crashes in computers, glitches and noise in monitors 4. Pure sine wave reliably powers the following devices that normally won't work with modified sine wave inverters:

- Power tools using variable speed controllers AC motors. · Sewing machines with speed/microprocessor control.
- Battery chargers

Laser printers, photocopiers, magneto-optical hard drives.
Some fluorescent lights with old-type ballasts.





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