

How to Make the Classic Inverter 110v or 220v at Home 5 Steps with Pictures

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This is the most simple inverter DIY project that you can make without any skills in electronics so easy and cheap but it comes with a price you have to buy some components and wire them together and this is it you are good to go just prepper your battery and led bulbs.

An electronic oscillator is an electronic circuit that produces a periodic, oscillating electronic signal, often a sine wave or a square wave.[1][2] Oscillators convert direct current (DC) from a power supply to an alternating current(AC) signal. They are widely used in many electronic devices. Common examples of signals generated by oscillators include signals broadcast by radio and television transmitters, clock signals that regulate computers and quartz clocks, and the sounds produced by electronic beepers and video games.[1]

The 2N3055 is a silicon NPN power transistor intended for general purpose applications. It was introduced in the early 1960s by RCA using a homotaxial power transistor process, transitioned to an epitaxial base in the mid-1970s. Its numbering follows the JEDEC standard It is a transistor type of enduring popularity.

Packaged in a TO-3 case style, it is a 15 amp, 60 volts (or more, see below), 115-watt power transistor with a β (forward current gain) of 20 to 70 at a collector current of 4 A (this may be 100 to 200 when testing using a multimeter. It often has a transition frequency of around 3.0 MHz and 6 MHz is typical for the 2N3055A; at this frequency the calculated current gain (beta) drops to 1, indicating the transistor can no longer provide useful amplification in common emitter configuration. The frequency at which gain begins to drop off may be much lower, see below.

A transformer is an electrical device that transfers electrical energy between two or more circuits through electromagnetic induction. A varying current in one coil of the transformer produces a varying magnetic field, which in turn induces a voltage in a second coil. Power can be transferred between the two coils through the magnetic field, without a metallic connection between the two circuits. Faraday's law of induction discovered in 1831 described this effect. Transformers are used to increase or decrease the alternating voltages in electric power applications.

Since the invention of the first constant-potential transformer in 1885, transformers have become essential for the transmission, distribution, and utilization of alternating current electrical energy. A wide range of transformer designs is encountered in electronic and electric power applications. Transformers range in size from RF transformers less than a cubic centimeter in volume to units interconnecting the power grid weighing hundreds of tons.

but you can buy them from Amazon or eBay, or harvest them from an old radio, power supply, chargers, and so on this project, we gonna use the transformer in reverse meaning we gonna supply 12v to the normal

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output, and the main 220v is gonna become out 220v output.

also very important the transformer from the previous step needs to be the same voltage so if you power with a 12v battery you will need a 12v output transformer if is the 6v power you will need a 6v output transformer and so on.

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