

Simple 1 5v inverter to 220v





Overview

How many components does a 220V AC simple inverter need?

Just, 1.5 volts and we can get 220V Ac at the output. So, maybe the question arises that the circuit then needs a lot of components to boost up the voltage. But, no! the circuit is so simple that it only needs four components. But how?

To make this, let's first understand this 220v AC Simple Inverter.

How does a 3 V 220 V inverter work?

The next 3 V to 220 V inverter circuit is designed to work in a blocking oscillator mode having an operating frequency set at around 400 Hz. The transistor used can be any PNP power transistor. The center tap transformer can be any standard step down transformer. This transformer provides the feedback and the voltage boosting both together.

How much power does a 220 volt inverter draw?

This 3 V to 220 V inverter circuit may draws around 70 ma from the 3 V battery (B1). The inverter circuit seen above is built around a straightforward astable multivibrator, which pushes and pulls its output via the secondary of a center-tapped, 12-volt step down power transformer. The circuit is powered by 6 volts of DC from four AAA batteries.

Why is a 220V inverter not used commercially?

When the battery is connected transistor generates the oscillations but, this transistor alone cannot make 220V. Therefore, the transformer is utilized to boost up the voltage. However, the power of this simple inverter is not so high. and, that's why this circuit cannot be used commercially.



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