

Inverter produces 12V to 6V



Overview

If you use a load that uses constant current. For example, LED, Light bulbs, relay coil, and more. You can use a resistor in series with these loads. This way is cheapest and so easy. Suppose you have 6V. We should choose the circuit to be suitable for the load. If you load use unstable currents. And low current using. For example, you have a portable FM radio. Of course, you cannot use it to the car directly. It. Normally, We always use a 3 pin DC voltage regulator(IC78XX series) for this job. Which may be will apply number 7806 provides the voltage of 6 volts. This circuit can give 1A max current. But it does not a popular number. In my stores have IC-7805 is popular ICis applied in many digital circuits (5 volts power supply). However, we modify a 7805 to the output of 6 volts in easily. When we add a chain of a diode such as 1N4148, in series at between the common pin of IC1 and Ground. It will increases the output by +0.7V for every. Some need 6V constant voltage. It is easy to adjust with a potentiometer. Look at the circuit below. You can adjust voltage from 5V to 12V with VR1.

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