

3. How Does a DC to AC Power Converter Work?



INVESTICE DO ROZVOJE VZDĚLÁVÁNÍ

Výuka jazyků
prostřednictvím ICT

CZ.1.07/1.1.10/03.0026

How Does a DC to AC Power Converter Work?

Two basic types of electricity:

- AC Alternating Current
switches continuously from negative
to positive
- DC Direct Current
always flows in the same direction

How Does a DC to AC Power Converter Work?

Early DC to AC convertors used mechanical switches

Modern DC to AC convertors use two or more electrical switches called transistors

How Does a DC to AC Power Converter Work?

Electricity flows through power lines at 120 – 240 volts
(depends on the country)

DC ranges between 12 and 30 volts
(far too low to power appliances designed to run from outlets.)

How Does a DC to AC Power Converter Work?

How do you run appliances when the voltage is too low?

Use a DC to AC convertor with a step-up transformer.

How Does a DC to AC Power Converter Work?

AC at home changes polarity 60 times/second.

This is referred to as:

60 Hertz or 60 cycles.