

# Portable power supply with output voltage 12v





## Overview

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How many +12V sources does a power supply have?

Cool =) There are a few units that actually have two +12V sources, but these are typically very high output power supplies. And in most cases these multiple +12V outputs are split up again to form a total of four, five or six +12V rails for even better safety.

What is the output voltage of a 12V 1A power supply?

This 12V 1A power supply using zener diode and transistors allows us to obtain an output of approximately 11.4 volts with a very small percentage variation for a wide variety of loads. Output voltage could be 12.4 volts using a different zener diode. The transistor (Q1) is used to expand the current capacity that this voltage source can deliver.

Does a 12V DC power supply meet the current requirements?

It also meets the current requirements ( $<1A$ )—there are some tables in the datasheet that show the typical output current you can have for an input voltage (for 12V in and 18V out, can have a load pulling  $\sim 850mA$ ). You said that when you tried feeding DC, you had 'weird' results, maybe it had to do with the lower voltage (12Vdc).

Are 12 V power supplies available at Mouser Electronics?

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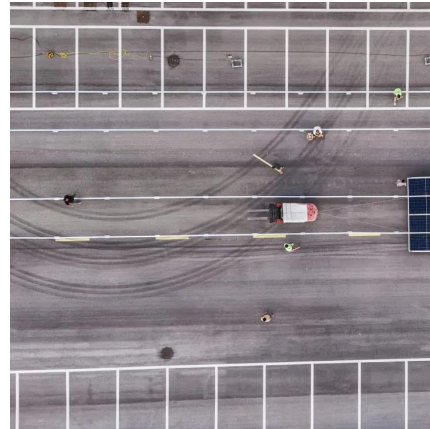


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