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# Simple 12v uninterruptible power supply

What is a simple uninterruptible power supply?

This article discusses a simple uninterruptible power supply that can come in handy in various situations. The design contains a rechargeable Li-Ion battery, battery protection and charging circuitry, and a 12V step-up module. It features two 12V outputs and a standard full-size USB port for charging all sorts of mobile devices.

What is a 12V uninterruptible power supply?

This is a simple and fully automatic, 12V uninterruptible power supply system for small/medium power appliances. This power supply specifically designs to drive routers and modems to provide uninterrupted internet and telephone services in areas affected by frequent power failures.

What do you need to make an uninterruptible power supply?

For prototypes, you need a soldering iron, cuprexit boards, wires, solder, flux, and the components listed later. For measurement, you need a multimeter, an oscilloscope, and a thermometer (or thermal camera). Step 1: What Is an Uninterruptible Power Supply?

How much power does a 12V ups use?

The 12V UPS uses an off-the-shelf, standard transformer, that is available at all leading security equipment suppliers. The transformer output should be between 16 to 17 V AC, and rated up to 3 amps. I always prefer to over design, so I will design this 2A UPS so that it is rated for a maximum of 3A.

UPS are commonly used in server applications to protect against power outages. For home applications, for example to protect a NAS, small Uninterruptible Power Supplies ...

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