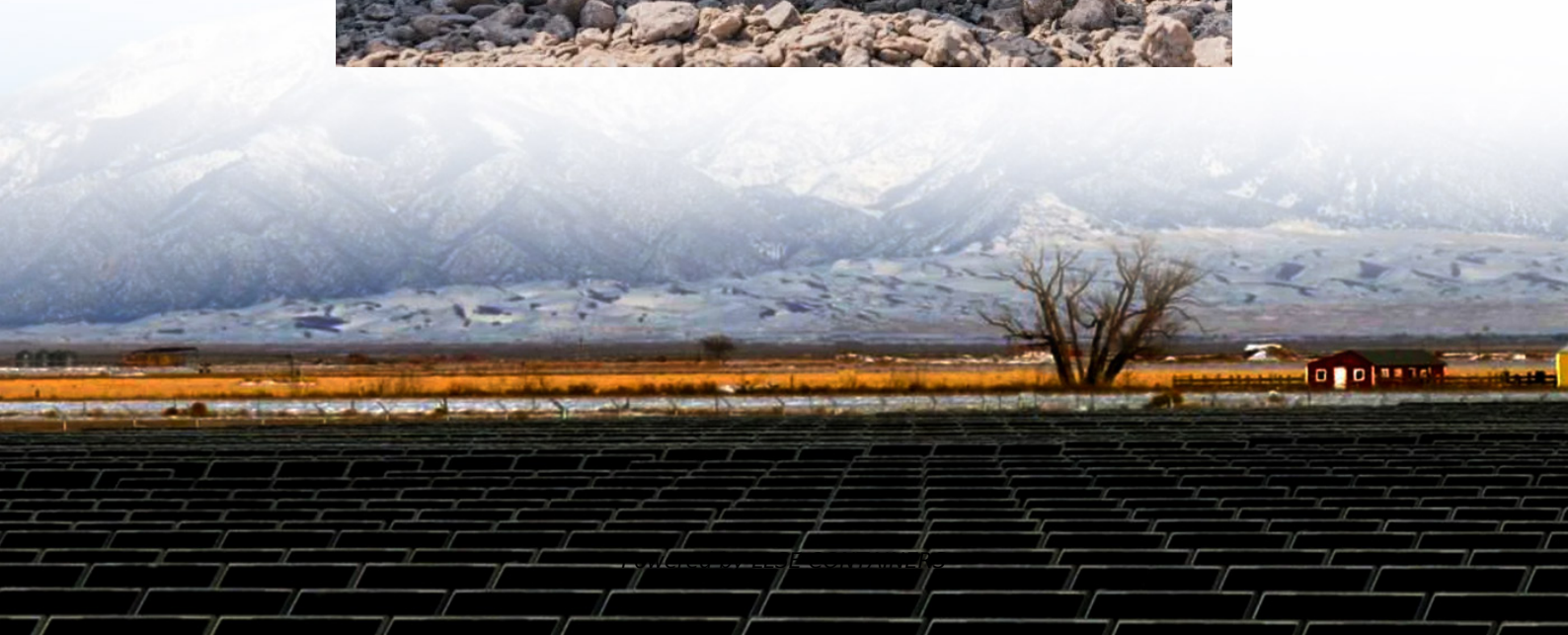


Self-built house production of uninterruptible power supply





Overview

Why do we need an uninterruptible power supply for our home?

As the world becomes more advanced, our dependence on electricity becomes more acute. Power outages can reduce the most sophisticated homes to quite primitive ones and this article describes the design of an uninterruptible power supply for the home that keeps alive the home's most essential service: Wi-Fi.

What is an uninterruptible power supply?

An uninterruptible power supply is a device that has the ability to convert and control direct current (DC) energy to alternating current (AC) energy . UPS is a battery backup for PC, when the power goes off the UPS kicks in and continues to supply power for some period of time to the particular system.

How do you design a home uninterruptible power supply (UPS)?

Design a home uninterruptible power supply (UPS) by using a car battery as a backup power source. This is connected to a buck-boost converter that generates a stable 12 V/5 A supply to power the Wi-Fi router, as well as a 6.5 V/1.5 A buck converter to power a cordless telephone. The circuit in Figure 1 was designed out of necessity.

How does an uninterrupted power supply work?

Most uninterrupted power supplies sold for computers 'switch' power, running a small inverter when power is interrupted, then switching back to 'normal' power when it's back on. This one simply produces AC power with a continuous duty inverter and assumes some system (s) will charge the DC battery supply it requires faster than it consumes it.



Self-built house production of uninterruptible power supply



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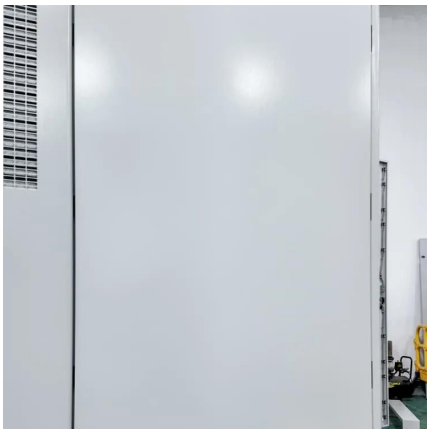
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The purpose of this project is to design and construct an uninterruptible power supply. Uninterruptible power supply is a voltage regulatory and uninterruptible power device planned ...



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several hours of ...



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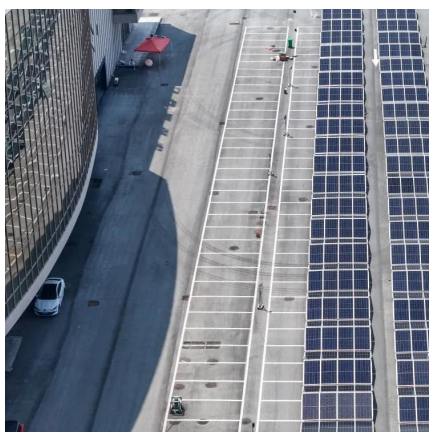


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