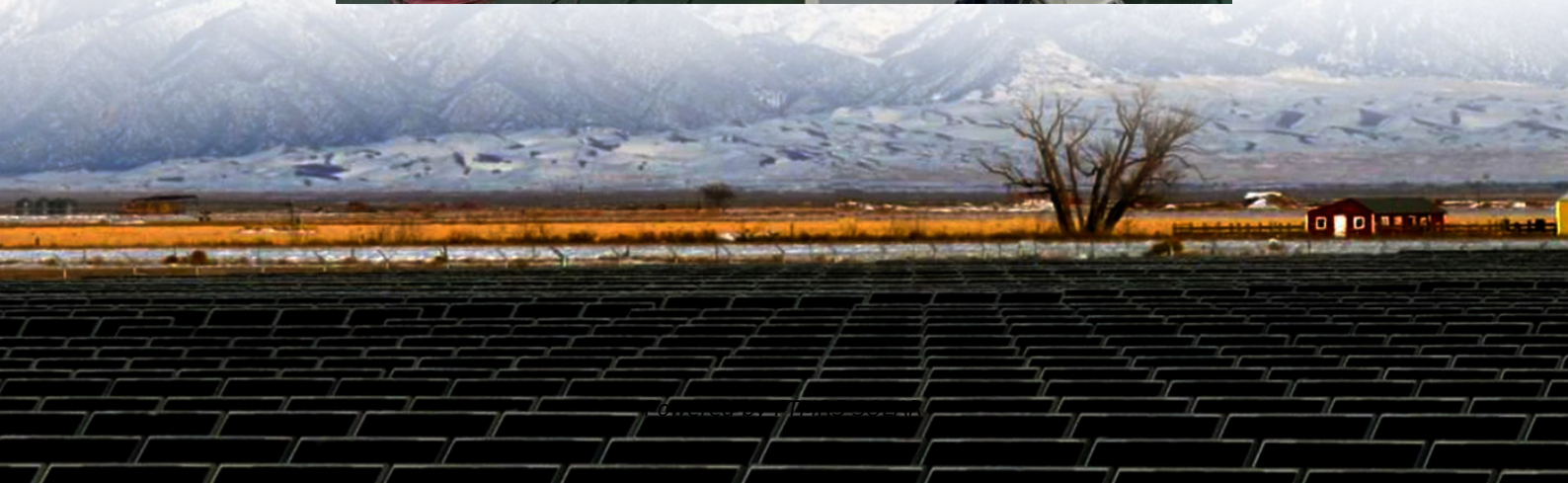


Design of uninterruptible power supply control system for electric power





Overview

What is an uninterruptible power supply?

An uninterruptible power supply, commonly called a UPS is a device that has the ability to convert and control direct current (DC) energy to alternating current (AC) energy. It uses a conventional battery of 12V rating as the input source and by the action of the inverter circuitry; it produces an alternating voltage which is sent to the load.

What is an uninterrupted power supply (UPS) system?

Uninterruptible power supply (UPS) systems are defined as systems that provide uninterrupted, reliable, and high-quality power for sensitive loads, such as medical facilities, data storage, and telecommunications.

How do uninterruptible power supplies (UPS) mitigate voltage sags?

Uninterruptible power supplies (UPS) mitigate voltage sags by supplying the load using stored energy. Upon detection of a voltage sag, the load is transferred from the mains supply to the UPS.

Why do we need an uninterrupted power supply for personal computer (PC)?

The design of this uninterrupted power supply (UPS) for personal computer (PC) is necessitated due to a need for enhanced portability in the design of personal computer desktop workstations.



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