

# **Uninterruptible power supply reduces costs**





## Overview

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What is an uninterruptible power supply system (UPS)?

To improve the efficiency of the power supply system, an uninterruptible power supply system (UPS) has been developed, which differs from the existing analogs, allows to reduce the peak power of the connected load, and is presented in Fig. 3.4 [25, 26]. Figure 3.4. Block diagram of the uninterruptible power supply system.

How do power supply systems improve efficiency?

The efficiency of power supply systems is achieved through the use of uninterruptible power supply units installed at consumers of electricity. The unevenness of electricity consumption is the main factor that increases the cost of electricity generated, expressed in terms of fuel consumption at power plants.

Why do you need a power redundancy UPS unit?

The use of a UPS unit with power redundancy allows the consumer to provide the necessary high-quality level of power supply, choosing the capacity of the battery station and installing its own additional autonomous power supply source of the required power.

What makes ups energy efficient?

Most of the energy consumed by a UPS is the result of switching losses in the inverter and transformers. To mitigate these losses, energy-efficient UPS systems employ a power management system that precisely controls every pulse of the switching cycle, optimizing the inverter's switching for specific load types and load levels.



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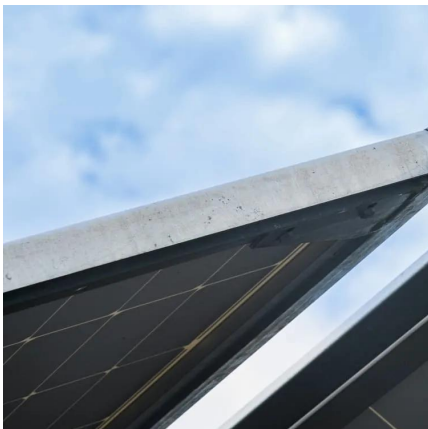


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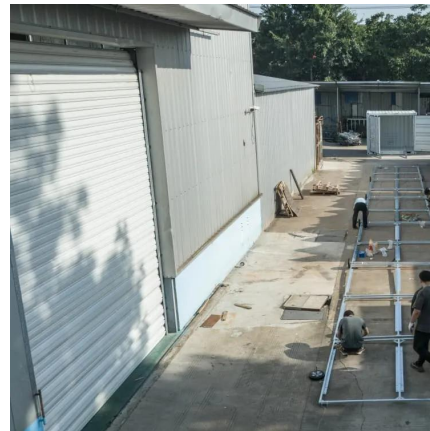


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### Reduce Energy Loss from Uninterruptible ...

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