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What does uninterruptible power supply module mean





Overview

What does uninterruptible power supply do?

Before we answer the question of what does uninterruptible power supply do, it's essential to understand what a UPS is. An Uninterruptible Power Supply (UPS) is an electrical device that provides emergency power to a load when the input power source or mains power fails.

What are the different types of uninterruptible power supply systems?

The three most common types of uninterruptible power supply systems are Standby (offline), Line-Interactive, and Online Double Conversion. Electrical loads are connected to utility power under normal conditions. If the utility goes down or spikes outside of acceptable voltage, the load switches to UPS power.

How do uninterruptible power supplies work in an online UPS?

Here's how do uninterruptible power supplies work in an online UPS:

Continuous Operation: In an online UPS, the rectifier converts incoming AC power into DC, which is then converted back to AC by the inverter. This double conversion ensures clean and stable power is always delivered to the load.

How does an uninterruptible power supply work in standby mode?

It operates in standby mode until a power outage occurs. Here's how does a uninterruptible power supply work in standby mode: **Normal Mode:** The connected equipment is powered directly by the mains, and the UPS remains idle. **Power Outage:** When the mains power fails, the UPS switches to battery power and supplies the load.



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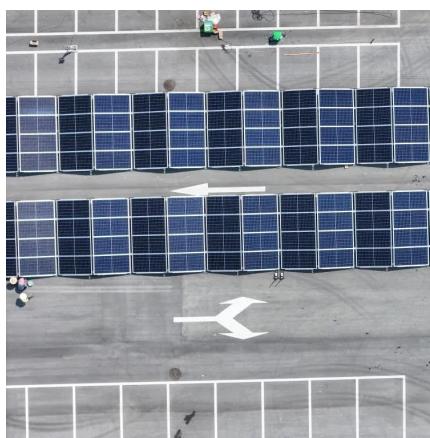


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