

The structure of uninterruptible power supply





Overview

What is an uninterruptible power supply (UPS)?

An Uninterruptible Power Supply (UPS) is defined as a piece of electrical equipment which can be used as an immediate power source to the connected load when there is a failure in the main input power source. In a UPS, the energy is generally stored in flywheels, batteries, or super capacitors.

What is the internal structure of a ups power supply?

Internal Structure of UPS Power Supply: Rectifiers: Rectifiers convert AC power to DC power. They serve two main functions: converting AC to DC for load supply after filtering, and providing charging voltage to the battery. Inverters: Inverters convert DC power to AC power and consist of an inverter bridge, control logic, and filtering circuit.

What is the basic structure of an ups?

Basic structure UPS consists of the following circuits and the battery. In the event of a power outage or failure occurring in the AC input, the UPS continues supplying power from the batteries to the AC output. Rectifier: Circuit which converts AC power to DC power.

What is a ups power supply?

From a basic application principle standpoint, a UPS power supply is an energy storage device that utilizes an inverter as its main component to deliver stable voltage and frequency output. It mainly consists of rectifiers, batteries, inverters, and static switches. Internal Structure of UPS Power Supply:



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An uninterruptible power supply (UPS) is just such an alternative source. A Uninterruptible Power Supply (UPS) generally consists of a rectifier, ...



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