

Ups uninterruptible power supply types

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Protects against power surges and provides battery backup in the event of a power outage. AC power passes through the unit under normal conditions and switches to battery mode when a power failure is detected.

In addition to battery backup, line-interactive UPS provide conditioned power, eliminating voltage fluctuations. AC power passes through a voltage regulator, which corrects low and high voltages as needed, and switches to battery backup mode when a power failure is detected.

Incoming AC power is converted to direct current (DC) and then back to high-quality AC power, free from voltage fluctuations and other distortions common in grid power. Online UPS systems also include a high-efficiency ECO mode, which automatically suspends or resumes double conversion depending on the quality of input power.

A UPS is typically used to protect hardware such as computers, hospital equipment, data centers, telecommunications equipment or other electrical equipment where an unexpected power disruption could cause injuries, fatalities, serious business disruption or data loss. UPS units range in size from ones designed to protect a single computer (around 200 volt-ampere rating) to large units powering entire data centers or buildings.

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