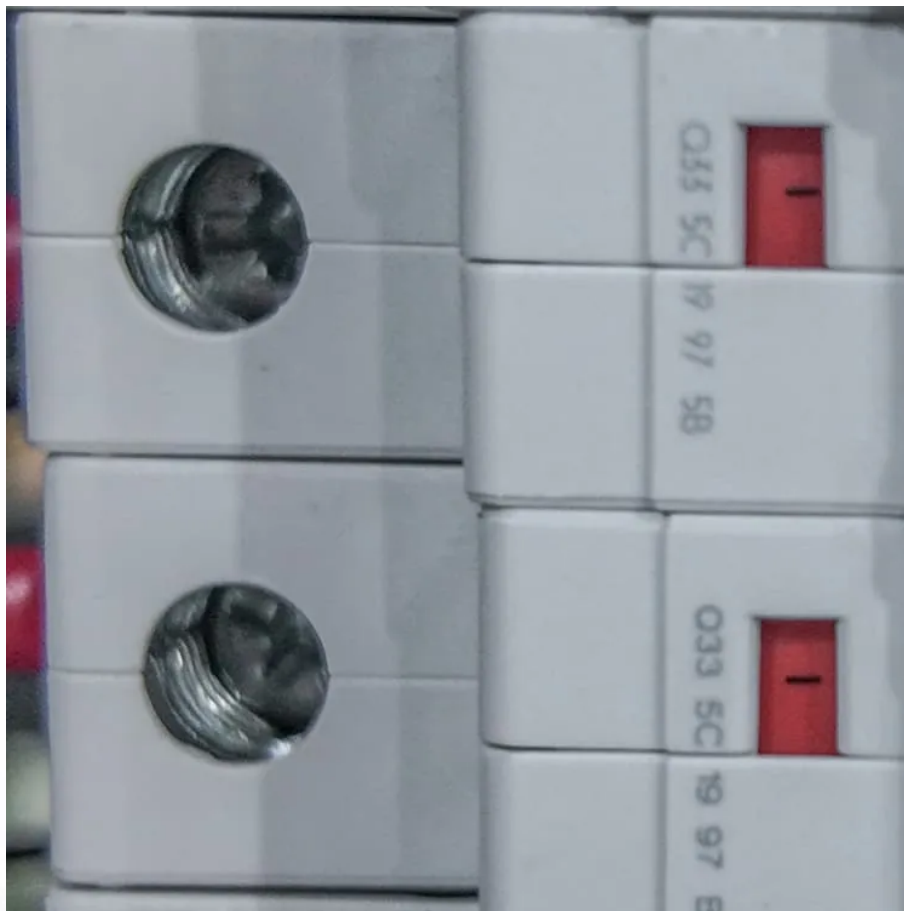


Three working modes of UPS uninterruptible power supply





Overview

What are the different types of uninterruptible power supply systems?

In this blog, we'll explore the different types of uninterruptible power supply systems, how they differ in operations, and the levels of protection they provide your critical load. The three most common types of UPS systems are standby (offline), line-interactive, and online double conversion.

What are the different types of UPS systems?

It also outlines different types of UPS systems—standby, line-interactive, and continuous—and compares them in terms of functionality, cost, and application, while highlighting alternative solutions like motor-generator sets. One method of protecting sensitive equipment against power interruptions is the uninterruptible power supply (UPS).

What is an uninterruptible power supply (UPS)?

One method of protecting sensitive equipment against power interruptions is the uninterruptible power supply (UPS). The UPS has become very popular as the cost of power electronics has decreased. Figure 1 shows the principles of operation of an electronic UPS. Single- or three-phase power is obtained from the power system and is rectified to DC.

What are the three operating modes of an ups?

The standard distinguishes three operating modes for UPSs which are: 1. Passive standby (also called off-line) 2. Line interactive 3. Double conversion (also called on-line) These definitions concern UPS operation with respect to the power source including the distribution system upstream of the UPS. IEC Standard 62040 defines the following terms:



Three working modes of UPS uninterruptible power supply

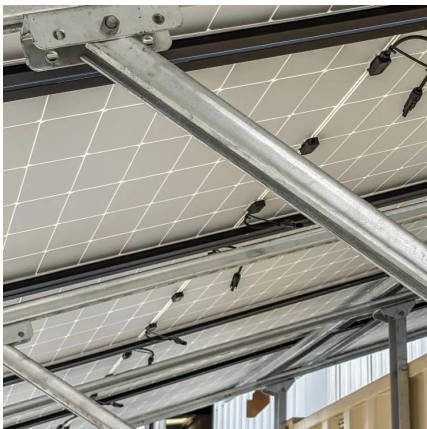


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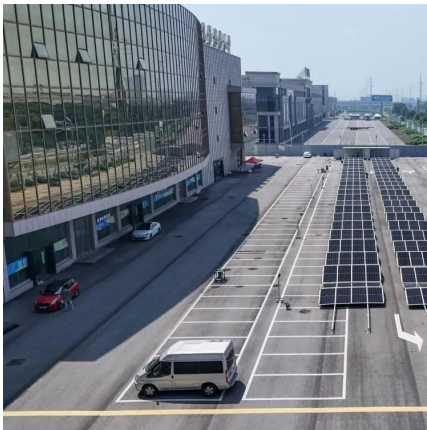
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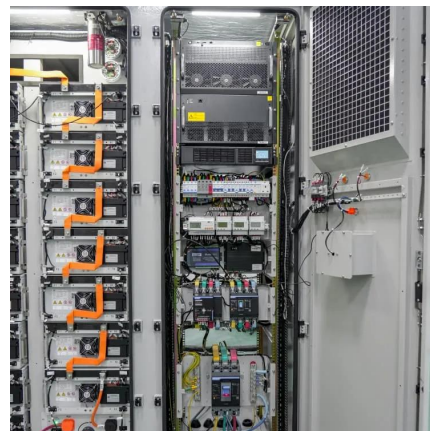
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