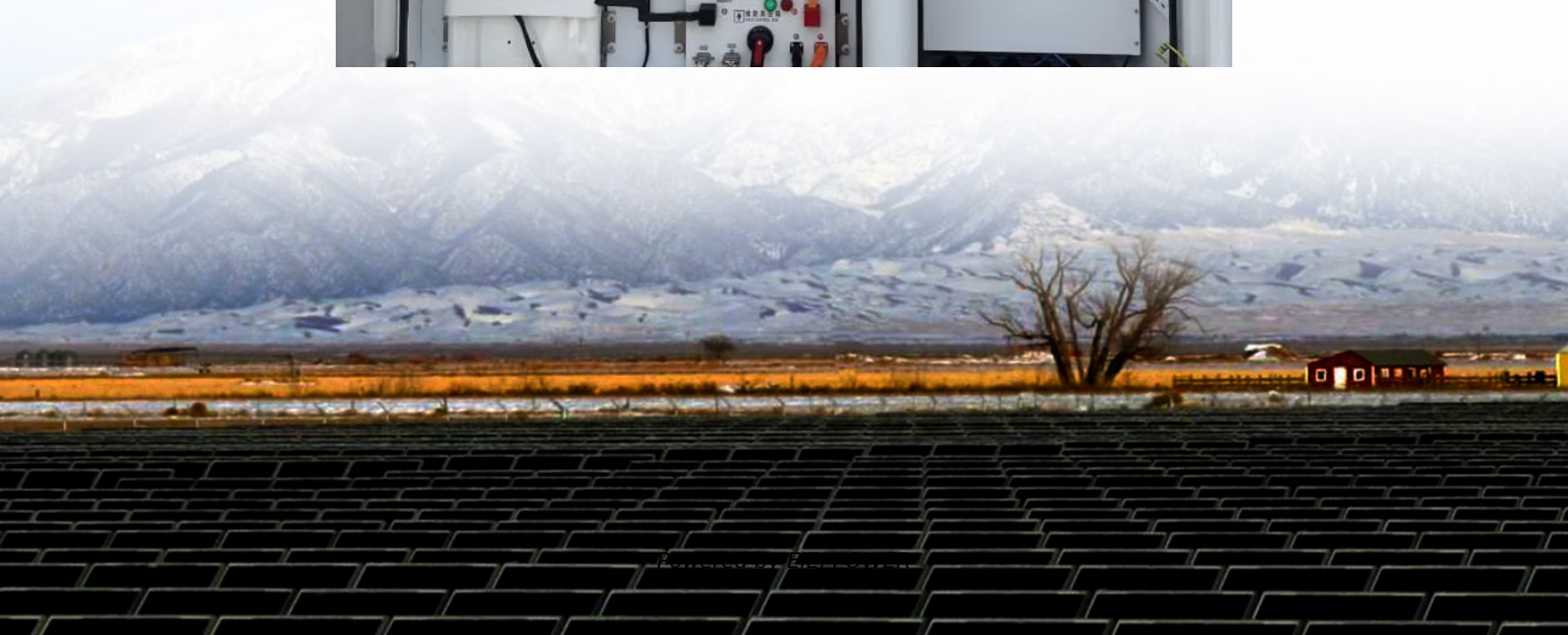


Uninterruptible power supply in and out of the switchboard





Overview

We are now going to study the main supply arrangements for an LV switchboard, regardless of its place in the network. The number of supply sources possible and the complexity of the switchboard differ acco.

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 happens if a Switchboard Supply Source is lost?

Switchboards S1, S2 and S3 have only one supply source. The network is said to be of the arborescent radial type. If a switchboard supply source is lost, the switchboard is put out of service until the supply is restored. Go back to the Contents Table ↑ Figure 2 - Dual fed low-voltage switchboards with no coupler.

What is a ups & how does it work?

The Core Function of a UPS: At its most basic, a UPS provides a continuous source of power to connected devices, even during power outages. It achieves this by storing energy in batteries and converting it to AC power when the primary power source fails.

What is a low voltage switchboard backed up by an inverter?

LV switchboard backed up by an inverter, with a generator to eliminate the problem of the limited autonomy of the battery (usually about 15 mn). See Figure 9. Figure 9 - Low-voltage switchboard backed up by an inverter The filter allows harmonic currents traveling up the supply network to be reduced. Go back to the Contents Table ↑



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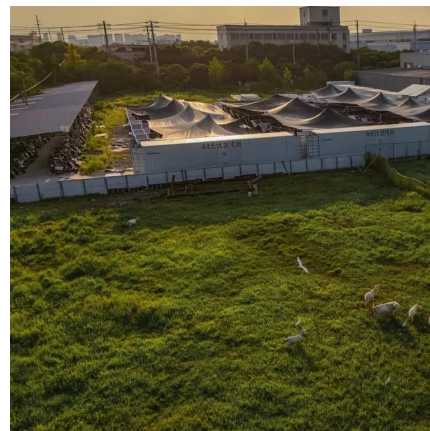


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