

SolarInnovate Energy Solutions

UPS uninterruptible power supply product standards



Overview

This product standard is harmonized with the applicable parts of group safety publication IEC 62477-1:2012 for power electronic converter systems and contains additional requirements relevant to UPS. Does the ups comply with en50171 standards?

The UPS is also required to comply with the EN50171 standard in the specific case of protecting safety equipment, in addition to complying with the 62040 series standards. This standard specifies the general requirements for independent centralized power supply systems for safety equipment.

Does a ups meet en 62040 requirements?

A UPS must meet not only the requirements of the product standards relating to the EN 62040 series when it is used to power these essential safety systems, but must also meet any additional requirements of the EN 50171 system standard.

Why is a battery important for an UPS system?

UPS STATIC UNINTERRUPTIBLE POWER SUPPLIES TECHNICAL GUIDE 17
CONTENTS WWW.LEGRAND.COM Batteries are essential for the UPS system: they ensure continuity of power supply by providing energy to the inverter (for the required period) when there is no power supply . It is therefore essential that they are always connected, functioning, and charged .

What are the standards governing the characteristics of the ups?

The main standards governing the characteristics of the UPSs are shown below . Lead-acid batteries, in particular VRLAs, are undoubtedly the most common solution in the world of UPSs, in spite of their limited expected life and temperature sensitivity .

What is a voltage independent ups?

- VI (Voltage Independent): this is the UPS in which the variations in the power

supply voltage are stabilised by electronic/passive regulation devices within the limits of routine operation .

Should a ups be connected to a power supply?

It is therefore sufficient to keep the UPS connected to the power supply, even if not in use, so that the batteries remain alive and active . The UPS must always be connected to the batteries and report any disconnections or malfunctions promptly so that it is able to function correctly .

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Uninterruptible Power Supplies Key Product Criteria

Also known as "passive" or "offline" or "standby" UPSs, Voltage and Frequency Dependent (VFD) UPSs are capable of protecting the load from power outages. Typically in sizes up 1500 VA, ...



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