

Monitoring battery life uninterruptible power supply





Overview

What is an uninterruptible power supply (UPS)?

An Uninterruptible Power Supply (UPS) is a critical component in any high availability system. It is monitored to ensure that it is working properly. In the past, this monitoring has been done manually or by monitoring the status of UPS batteries and receiving real-time alerts if any issues arise. The proposed system.

What is UPS battery monitoring?

In the past, UPS battery monitoring was done manually or through local monitoring systems. However, the proposed project aims to develop an IoT-based monitoring system for UPS batteries, specifically for high availability systems. This system will consist of a network of sensors placed in strategic locations throughout the battery.

Why do you need a battery monitoring system?

By real-time monitoring of the battery, issues such as aging and damage can be detected early, preventing power outages caused by battery failures, thereby extending the life of the UPS system. The UPS battery monitoring system improves system efficiency.

How a battery management system can be used for UPS?

It is proposed to use an IOT-based battery management system for UPS. This system includes a voltage sensor that detects voltage and updates the IOT in Fig.3. A buzzer alert is delivered and shown on the LCD if the temperature of the battery increases, which is detected by the temperature sensor.



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