



Measurement indicators for uninterrupted power supply of communication base stations



Overview

To judge the quality of a communication switching power supply, it is necessary to comprehensively judge from aspects such as power device type, circuit principle, protection and lightning protection measures, alarm function, monitoring interface type and electromagnetic. To judge the quality of a communication switching power supply, it is necessary to comprehensively judge from aspects such as power device type, circuit principle, protection and lightning protection measures, alarm function, monitoring interface type and electromagnetic. The stable operation of mobile communication networks directly depends on the uninterrupted and reliable supply of electricity to base stations. Through chi-square test, Pearson correlation analysis, variance analysis and other machine learning. Therefore, this paper investigates changes in the instantaneous power consumption of GSM (Global System for Mobile Communications) and UMTS (Universal Mobile Telecommunications System) base stations according to their respective traffic load. The real data in terms of the power consumption and. The present document may be made available in electronic versions and/or in print. The metric is obtained with.



Article Content

Base Station Testing: A Comprehensive Guide

In wireless communication networks, base stations or cell towers are evaluated and assessed for their functionality, performance, ...

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This document defines the methodology to be used by vendors and third party test laboratories in the determination of base station input power and energy efficiency metrics.

(PDF) Measurements and Modelling of Base ...

The real data in terms of the power consumption and traffic load have been obtained from continuous measurements performed on a ...

Research on Availability Evaluation of the Communication ...

In this paper, the availability calculation method of the communication uninterrupted power supply system is discussed by using the state space analysis method

Enhancing state-of-health estimation for uninterruptible power ...

To obtain the SOH online efficiently, a series of indirect measurements have been proposed. These methods focus on establishing mathematical relationships between SOH and ...

Algorithms for uninterrupted power supply to mobile ...

In this article, an algorithm for automatic control of energy sources was developed to improve the uninterrupted power supply of mobile communication base stations. Based on the proposed ...

The Energy Saving Measurement System and Method of Main ...

The real data in terms of the power consumption and traffic load have been obtained from continuous measurements performed on a fully operated base station site.

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The measurement of the power consumption shall be performed by either measuring the power supply voltage and true effective current in parallel and calculate the resulting power ...

Communication base station power supply performance ...

In this article, an algorithm for automatic control of energy sources was developed to improve the uninterrupted power supply of mobile communication base stations.

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