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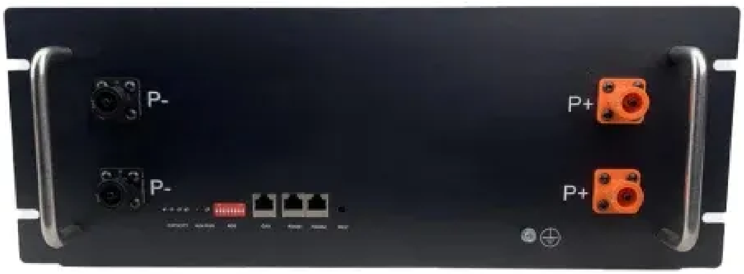
How to check 2MWH communication of 5G base station



Overview

Why do base stations need a 5G conformance test?

Thanks to the much faster, more reliable, and near-instant connections that come with the 5G, we now see a variety of innovative and comprehensive mobile wireless communication applications every day. Base stations must now pass new conformance tests to ensure they deliver on their promises.

Are 5G NR base stations 3GPP-compliant?

Every 5G NR base station or UE manufacturer must pass all the necessary tests before releasing the products to market. Otherwise, the products do not have 3GPP-compliant recognition and are not usable for network deployment. We start with a quick overview of 3GPP base station conformance testing requirements.

What are 5G UE and BS measurements?

This page provides an overview of 5G measurements performed on User Equipment (UE) and Base Stations (BS) or Nodes B (NB). It details both 5G UE measurements and 5G BS measurements. The 5G measurements encompass both transmitter and receiver test scenarios. Introduction: The following tests are generally performed during 5G measurements:.

What tests are performed during 5G measurements?

Introduction: The following tests are generally performed during 5G measurements: Figure 1: Equipments available from Keysight Technologies for 5G measurements. References: Explore 5G measurements for User Equipment (UE) and Base Stations (BS), covering transmitter and receiver test scenarios, conformance, and network stability.

Can a signal generator simulate a 5G NR base station?

For demonstration purposes any of these signal generators mentioned before can be used to simulate a 5G NR base station as well. Specification TS

38.141-1 defines the tests required in the various frequency ranges and positions (Bottom, Middle, Top) in the operating band.

How to test a 5G phone with a white box?

The larger the required quiet zone, the larger the chamber needs to be. Let’s consider the test of a 5G smartphone at 28 GHz (i.e. wavelength of ~1 cm), with an antenna aperture size of 3 cm and a diagonal size of 12 cm. If the location of the antenna within the mobile phone is known the White Box testing approach can be used.

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