

Kongres Container

How to test the battery of base station power supply



Overview

What is a power substation DC system?

A power substation DC system consists of a battery and a battery charger. The condition of these components is verified through testing and commissioning. Tools used for this process include a multimeter (learn how to use it) and a battery loading unit, such as the Torkel-720 or an equivalent. The Torkel-720 is capable of providing a constant current load to the battery under test.

How to test a battery in a substation DC system?

To test a battery in a substation DC system, first perform a visual inspection: cleanliness of the battery is checked, and the electrolyte level is verified as specified on the individual cells. Ensure the tightness of cell connections on individual terminals. The load current, minimum voltage of the battery system, ampere-hour, and duration are preset in the test equipment using the keypad.

How to check a battery charger?

To check a battery charger in a substation DC system, first ensure a stable incoming AC supply to the battery charger. Then, perform a visual inspection to verify the cleanliness of the battery charger. Proper cable termination of the incoming AC cable, outgoing DC cable, and the cable connection between the battery and charger should be ensured.

How to set a battery duration in a test equipment?

To set a battery duration in a test equipment for a 58 AH battery, 11.6 A and 5 Hr. duration are set using the keypad.

What is battery test equipment?

Battery test equipment is used to verify battery pack functionality and performance prior to shipment to the customer. This application brief outlines three major functional tests that a battery tester performs while showing how

to achieve the desired level of regulated error. . ADC Figure 1. Traditional Battery Test Equipment Block Diagram.

What are the conditions for a battery set?

For a battery set, the mandatory condition is that it should have been properly charged as per the commissioning instructions of the battery manufacturer for the specified duration. During a visual inspection, the battery's cleanliness and electrolyte level are checked as specified on the individual cells.

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