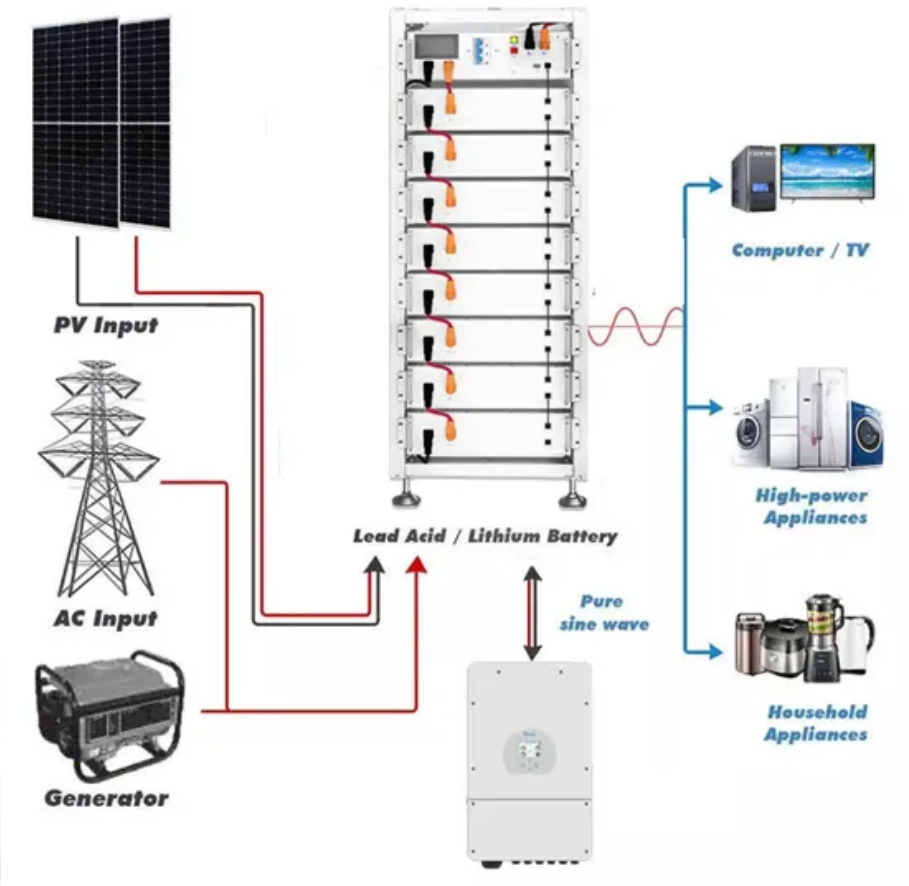
ContainerPower Energy Solutions

Standards for DC distribution boxes in communication base stations



Overview

What is the IEEE SA standard for DC power systems?

This recommendation is applicable for power generation, substation, and telecommunication applications. Current projects that have been authorized by the IEEE SA Standards Board to develop a standard. This recommended practice provides guidance for the design of stationary dc power systems and their associated passive or active protection.

What is a DC power system?

This introduction is not part of IEEE Std 946-2020, IEEE Recommended Practice for the Design of DC Power Systems for Stationary Applications. DC power systems continue to play a vital role in generating station, substation, and telecom controls and providing backup for emergencies.

What are the components of a DC power system?

The components of the dc power system addressed by this document include lead-acid and nickel-cadmium storage batteries, static battery chargers, and distribution equipment. Guidance in selecting the quantity and types of equipment, the equipment ratings, interconnections, instrumentation and protection is also provided.

Which distribution supply is used for a hydroelectric generating station?

For a small hydroelectric generating station, AC and DC distribution supply is used. However, the transfer switch arrangements shown between the chargers and the two batteries in this example, which allow either charger to charge either battery, are less common.

What is a 3G base station converter?

In a 3G Base Station application, two converters are used to provide the +27V distribution bus voltage during normal conditions and power outages.

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