

The grounding network of the mobile energy storage station inverter is connected to the grid





Overview

What is the rational design of a grounding grid for Mobile substations?

The rational design of a grounding grid is a crucial prerequisite for ensuring the safe and reliable operation of mobile substations. This paper discusses the design of the grounding grid for mobile substations from the perspective of standardized design, aiming to minimize on-site construction and enable rapid deployment.

Why should a grounding grid be standardized?

The rational design of the grounding grid is a crucial prerequisite for ensuring the safe and reliable operation of mobile substations. Standardizing the grounding design of mobile substations can reduce subsequent design work and on-site construction.

What is protective grounding in a mobile substation?

Protective grounding means connecting one or more points of a system, installation, or equipment to the ground to ensure electrical safety. Considering the rectangular layout of the vehicle and its equipment, the grounding grid of a mobile substation is best designed as a closed grounding ring around the vehicle's perimeter.

How to ground a substation vehicle?

The grounding copper bars of each switch cabinet and protection panel inside the main switch box should be sequentially connected and led out to the auxiliary grounding ring network outside the prefabricated cabin, collectively forming the substation vehicle grounding system.



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