

Energy storage charging pile terminal welding diagram

What are the characteristics of a charging pile?

Taken together, the skeleton or main body of the charging pile meets the requirements of strength and safety margin. The anti-dumping stability of the charging pile refers to the ability of the pile with parts to maintain its original equilibrium state in the process of moving.

How to improve the stability of a mobile charging pile?

The structured shape of the charging pile is fixed, so the method to improve the stability is mainly to adjust the position of gravity centre of the box, or to increase the size of the bottom support surface of the box, on the premise of not changing the overall structure size. Mobile charging piles are fixed by wheel support.

How a charging pile body is connected?

In general, the charging pile body is connected by welding and rivets. In the finite element analysis system, considering the complexity of the charging pile structure, the complex parts were simplified under the premise of not affecting the overall strength by following certain simplification principles:

What is the maximum deformation value of a charging pile?

Our results have demonstrated that the maximum deformation value of the structure is 3.07 mm, and the maximum stress is 134.41 MPa, which is within the safety range of the selected materials. In addition, the gravity centre of the charging pile is located at the bottom of the structure, and thus the stability meets the requirements.

Are charging piles a waste of existing charging resources?

For instance, parking spaces are limited at some places, where the set charging pile parking spaces would be occupied by ordinary vehicles, resulting in the idle and low utilization rate of charging piles. In another word, it is a waste of existing charging resources [3,4].

What is the anti-dumping stability of a charging pile?

The anti-dumping stability of the charging pile refers to the ability of the pile with parts to maintain its original equilibrium state in the process of moving. According to the principle of structural stability in mechanics, the structure is stable when the vertical line of gravity centre falls within the range of its bottom.

Here, we discuss the state-of-the-art topologies and control methods of both ac-dc and dc-dc power stages for off-board chargers, focusing on technical details, ongoing progress, and challenges....

This manual introduces the relevant information about the use of energy storage charging system, including functions and characteristics, performance indicators, external structure and ...



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