

Energy storage charging pile detection service platform

What is energy storage charging pile equipment?

Design of Energy Storage Charging Pile Equipment The main function of the control device of the energy storage charging pile is to facilitate the user to charge the electric vehicle and to charge the energy storage battery as far as possible when the electricity price is at the valley period.

Can battery energy storage technology be applied to EV charging piles?

In this paper, the battery energy storage technology is applied to the traditional EV (electric vehicle) charging piles to build a new EV charging pile with integrated charging, discharging, and storage; Multisim software is used to build an EV charging model in order to simulate the charge control guidance module.

What is the function of the control device of energy storage charging pile?

The main function of the control device of the energy storage charging pile is to facilitate the user to charge the electric vehicle and to charge the energy storage battery as far as possible when the electricity price is at the valley period. In this section, the energy storage charging pile device is designed as a whole.

What is a charging pile monitoring platform?

The monitoring platform is designed to provide auxiliary tools for the management and maintenance of charging piles, to ensure their safe operation. Since the existing monitoring platform mainly applies blockchain technology. Generally, the charging pile provides two charging methods: conventional charging and fast charging.

What data is collected by a charging pile?

The data collected by the charging pile mainly include the ambient temperature and humidity, GPS information of the location of the charging pile, charging voltage and current, user information, vehicle battery information, and driving conditions. The network layer is the Internet, the mobile Internet, and the Internet of Things.

Why is data the basis of online monitoring of charging pile equipment?

Data is the basis of online monitoring of charging pile equipment because a large amount of data is needed for analysis and decision-making during charging pile operation. Therefore, the reasonable management of data is an important part of the platform design.

There are 6 new energy vehicle charging piles in the service area. Considering the future power construction plan and electricity consumption in the service area, it is considered to make use of the existing parking lots and reserve 20%-30% of the number of parking spaces in the service area to build a new energy vehicle charging

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The charging platform for piling equipment has a monitoring tool that improves performance, finds defects, improves user experience, assures security, and facilitates billing ...

The open source distributed framework Spring Cloud and its components are used to realize the mechanism of service registration discovery, load balancing, service fault tolerance and so on.

Based on this, the purpose of this article is to design and research the operation platform of charging pile metering equipment based on big data. This article first analyzes and ...

The charging platform for piling equipment has a monitoring tool that improves performance, finds defects, improves user experience, assures security, and facilitates billing and reporting. Technologies applicable to big data include large-scale parallel processing databases, data mining, distributed file systems, distributed databases, cloud ...

In this paper, a method based on support vector machine (SVM) is proposed to detect electricity stealing behavior of charging piles. By constructing a recognition model of electricity...

The charging pile control function of the property management platform is tested in detail from three PWM peak conditions and the final application effect is evaluated. After sampling and ...

Improve the traditional single pile charging mode, realize intelligent charging, scheduling charging, timing charging and app charging, car charge identification and other charging methods on the ...

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