Chart of energy storage charging pile detection and charging method

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.

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.

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 vehicleand 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.

How does the energy storage charging pile interact with the battery management system?

On the one hand,the energy storage charging pile interacts with the battery management system through the CAN busto manage the whole process of charging.

What is the energy storage charging pile system for EV?

The new energy storage charging pile system for EV is mainly composed of two parts: a power regulation systemand a charge and discharge control system. The power regulation system is the energy transmission link between the power grid,the energy storage battery pack,and the battery pack of the EV.

Can energy-storage charging piles meet the design and use requirements?

The simulation results of this paper show that: (1) Enough output powercan be provided to meet the design and use requirements of the energy-storage charging pile; (2) the control guidance circuit can meet the requirements of the charging pile; (3) during the switching process of charging pile connection state,the voltage state changes smoothly.

This paper proposes an error detection procedure of charging pile founded on ELM method. Different from the traditional charging pile fault detection model, this method constructs data ...

Abstract -In this paper, the active electric energy value of the charging pile and its change time scale are obtained through the image recognition algorithm, and the low-pass filter algorithm is ...

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Read and write card: The charging pile detecting device can detect whether the charging pile can correctly read and write the IC card; Data storage: detecting whether the...

Therefore, it is urgent to study the detection technology of vehicle pile network system and form a safe and stable detection method for vehicle pile network interoperability. It can provide technical support for the interactive charging safety of the Internet of vehicles, improve the safety and reliability of the charging and discharging ...

Firstly, the characteristics of electric load are analyzed, the model of energy storage charging piles is established, the charging volume, power and charging/discharging ...

Many different types of electric vehicle (EV) charging technologies are described in literature and implemented in practical applications. This paper presents an overview of the existing and proposed EV charging ...

Reference 5 developed a distributed energy management system based on multiagent system for efficient charging of electric vehicles. The energy management system proposed by this method reduces the peak charging load and load change of electric vehicles by about 17% and 29% respectively, without moving and delaying the charging of electric ...

Abstract -In this paper, the active electric energy value of the charging pile and its change time scale are obtained through the image recognition algorithm, and the low-pass filter algorithm is used to filter out the time scale jitter.

Firstly, the characteristics of electric load are analyzed, the model of energy storage charging piles is established, the charging volume, power and charging/discharging timing...

Abstract: A method to optimize the configuration of charging piles(CS) and energy storage(ES) with the most economical coordination is proposed. It adopts a two-layer and multi-scenario ...

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The present invention provides a kind of intelligent DC charging pile, it include for outside three-phase alternating current is changed into adjustable direct current charging module, for charge capacity charge accounting metering module and control module also includes ETC processing modules, image processing module and the memory module for storing user profile, by control ...

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In this study, to develop a benefit-allocation model, in-depth analysis of a distributed photovoltaic-power-generation carport and energy-storage charging-pile project was performed; the model was ...

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