

Capital Electric Energy Storage Charging Pile Test System

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 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 system and 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.

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 the processing time of energy storage charging pile equipment?

Due to the urgency of transaction processing of energy storage charging pile equipment, the processing time of the system should reach a millisecond level.

3.3. Overall Design of the System

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

The simulation results of this paper show that: (1) Enough output power can 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.

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.

Design and research electric vehicle AC and DC charging pile test system, develop charging pile test system user interface, and complete automatic charging pile test. The AC and DC charging pile test system is composed of programmable controls to complete the detection of various parameters of the charging pile. Design sample maintenance ...

In this paper, the battery energy storage technology is applied to the traditional EV (electric vehicle) charging

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piles to build a new EV charging pile with integrated charging, ...

Design a charging pile electric energy verification device to improve the electric energy measurement accuracy of the charging pile. The device is mainly used for detecting whether the charging pile can be correctly configured, including a tariff period, a billing unit power, a billing rate, and the like, and detecting the communication ...

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As a power electronic device, the power quality problem of charging piles is prominent, which will affect the power grid and nearby equipments. Focusing on the problem of difficult field detection, this paper studied the overall architecture of plug and play test system and completes the design of detection system device, communication system ...

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,...

To investigate the interactive mechanism when concerning vehicle to grid (V2G) and energy storage charging pile in the system, a collaborative optimization model ...

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