

What kind of faults will occur in energy storage charging piles

Why do smart charging piles need maintenance?

Since the smart charging piles are generally deployed in complex environments and prone to failure, it is significant to perform efficient fault diagnosis and timely maintenance for them.

Are fault detection methods still used in charging piles?

However, traditional fault detection methods are still used in charging piles, which makes the detection efficiency low. This paper proposes an error detection procedure of charging pile founded on ELM method.

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.

Can cost-sensitive logistic regression predict smart charging pile faults?

In this article, a real-time fault prediction method combining cost-sensitive logistic regression (CS-LR) and cost-sensitive support vector machine classification (CS-SVM) is proposed. CS-LR is first used to classify the fault data of smart charging piles, then the CS-SVM is adopted to predict the faults based on the classified data.

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 bus to manage the whole process of charging.

Are smart charging piles an important part of the smart grid?

Abstract: With the application of the Internet of Things (IoT), smart charging piles, which are important facilities for new energy electric vehicles (NEVs), have become an important part of the smart grid.

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This paper mainly studies the open circuit fault diagnosis of power components of electric vehicle DC charging piles; the faults are divided into 16 types, as shown in Table 2.

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With the increasing density of charge and discharge service network, various faults that occur frequently in the

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process of charge and discharge will cause great harm and loss to electric ...

charging piles [31]. In view of the above situation, in the Section2of this paper, energy storage technology is applied to the design of a new type charging pile that integrates charging, ...

During the operation of DC charging pile, faults are easy to occur, mainly including communication faults, charging gun faults, charging module faults, etc. Among the ...

With an increasing number of lithium-ion battery (LIB) energy storage station being built globally, safety accidents occur frequently. Diagnosing faults accurately and quickly ...

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, ...

charging voltage and current can be adjusted in real time, and the charging time can be significantly shortened when the charging current are large, which is a more widely used ...

This type of product is actually not very meaningful for most individual users, because when sharing your own private charging pile with others, you need to consider many ...

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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 ...

TMS faults include compressor faults, pump faults, fan faults, communication faults, sensor faults, power supply alarming, humidity alarming, and high temperature ...

The construction of public-access electric vehicle charging piles is an important way for governments to promote electric vehicle adoption. The endogenous relationships ...

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,...

An arc fault is the most common cause of charging pile fire. The series arc fault current is usually lower than the short-circuit fault current and is challenging to detect,...

and the fault maintenance of charging piles has gradually become a problem. Aiming at the prob- lems that convolutional neural networks (CNN) are easy to overfit and the low localization ...

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