

## **SolarInnovate Energy Solutions**

# Light energy storage charging pile





#### **Overview**

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 energy storage charging pile management system?

System Architecture Design Based on the Internet of Things technology, the energy storage charging pile management system is designed as a three-layer structure, and its system architecture is shown in Figure 9. The perception layer is energy storage charging pile equipment.

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?

The charging pile (as shown in Figure 1) is equivalent to a fuel tanker for a fuel car, which can provide power supply for an electric car.

Why is it important to maintain the charging pile?

The importance of maintaining charging piles lies in the fact that influences by the changeable environment and ageing inner parts can cause various faults. Regular examination and maintenance are necessary during both product storage and using processes.



Where are charging piles installed?

Charging piles are mainly installed in shopping malls, shopping centers, residential parking lots, downstairs units and charging and changing stations, which can provide charging services for electric vehicles of different types and voltage levels. Figure 1. Charging pile for electric vehicles.



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PSB48V400H



# 48V or 51.2V

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