

Portable power supply vehicle for field projects





Overview

What is portable auxiliary photovoltaic power system for electric vehicles?

It is innovative that the portable auxiliary photovoltaic power system for electric vehicles delivers electricity through WPT technology, which has the advantages of 1) satisfactory energy transfer efficiency and 2) no requirement of car modification. Design of PVPGM based on a foldable mechanism.

Can a photovoltaic power system supply electric vehicles?

An electric vehicle in Chengdu city was simulated for a case study. The results show that the annual output of a single photovoltaic power system can drive the MINIEV for 423.625 km, indicating that the proposed system would be able to supply power for electric vehicles as an auxiliary power supply system.

Can a photovoltaic power generation module be used for electric vehicles?

The area of the proposed photovoltaic power generation module is relatively small, only 0.47 m², while a car usually occupies more than 10 m²; therefore, the area of the photovoltaic power generation module can be increased to generate higher output power for electric vehicles.

Can auxiliary power system power electric vehicles?

Based on the case study results, the annual electricity generated by the proposed auxiliary power system is 2.033 GWh. The power generated by the PVPGM, good performance of wireless power transfer, and case study shows that the proposed auxiliary power system has great potential for powering electric vehicles.



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