Solar Energy

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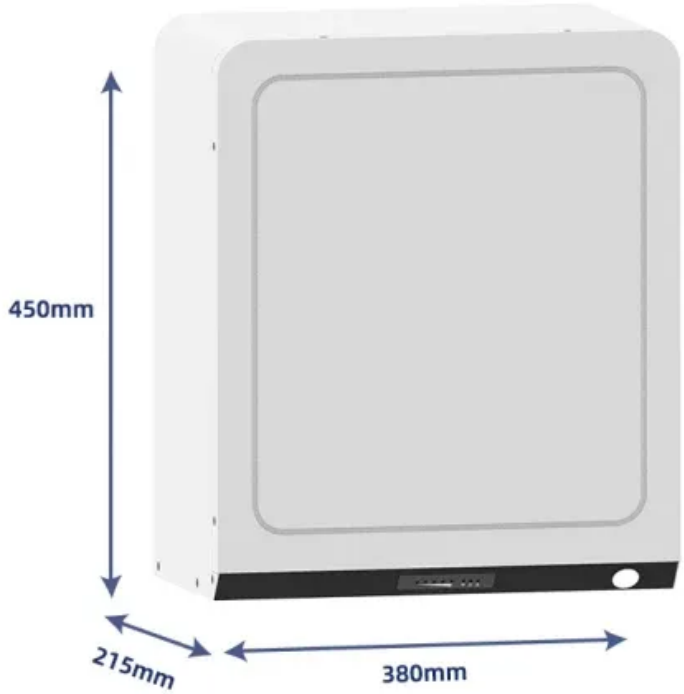

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Wireless Power Transfer and Wireless Energy Harvest

Using wireless power transfer (WPT) technology to power UAVs can improve the endurance of UAVs and enhance their maneuverability and flexibility. In this paper, the WPT technology is divided into three types: near-field WPT technology, far-field WPT technology and solar-powered UAV.

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This review investigates and discusses the opportunities and challenges of the smart WPT, especially in the areas of wireless energy modulation, conversion and intellectualization. The key is to reveal the methodologies, approaches and foresights for the emerging technologies of ...

Smart Wireless Power Transfer -- Opportunities and Challenges

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This letter proposes a novel control strategy named Periodic Energy Control (PEC) in WPT systems. It is suitable for all kinds of compensation topologies of WPT systems. Specifically, it ...

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The study of wireless energy encryption and modulation is to improve the energy security performance of multi-objective WPT. Its research highlights comprise four parts. First, a switched-capacitorless transmitter and two-dimensional frequency-and-duration security keys are proposed to encrypt energy packages.

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A City University of Hong Kong (CityUHK) scientist is participating in a research project on "High-Frequency, High-Power and High-Efficiency Wireless Power Transfer (WPT) ...

S.Y. Hui's lab , The University of Hong Kong (HKU)

The first generation of wireless power transfer (WPT) standard Qi, launched in 2010, contains a wide range of transmitter and receiver designs with the aim of maximizing compatibility to attract

The Hong Kong Polytechnic University

For the first time, the complete system comprising the energy harvesting, wireless power transfer (WPT) and output power stages are practically evaluated using printed circuit board (PCB) resonators embedded in a 35-kV composite insulator.

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Unleashing new sources of power , Faculty of Engineering, HKU

Such novel technologies can create new opportunities to reduce the size, and improve the energy efficiency of the Wireless Power Transfer (WPT) systems. Professor Hui returned to HKU at the invitation of President Zhang Xiang and the Dean of the Faculty of Engineering to continue with his research in the uncharted territory of HP, HF and HE WPT

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