

Can new energy be used to charge outdoor power supplies





Overview

What is outdoor energy supply for smart wearables?

Sketch of outdoor energy supply for smart wearables. Energy sources that can be utilized outdoors include solar, kinetic, thermal, chemical, and radio frequency energy. The different energy harvesting systems can be installed in different locations, independently or cooperatively to power the devices.

Which energy sources can be used for small wearables?

RF energy, thermal energy, and biomass energy have less energy dense and can be used as auxiliary power sources for small wearables. The combination of the energy harvesting system and the micro energy storage unit enables the continuous power supply of wearables in different circumstances of daytime, nighttime, indoor and outdoor.

How can a micro energy storage unit provide continuous power supply of wearables?

The combination of the energy harvesting system and the micro energy storage unit enables the continuous power supply of wearables in different circumstances of daytime, nighttime, indoor and outdoor. The significance of this work stems from providing guidance for future energy supply methods of wearables. 1. Introduction.

Can solar energy be used to power Wearables?

Solar energy resources are abundant, acquiring about $60 \sim 250 \text{ W/m}^2$ per year in different regions, which is suitable for powering wearables with high energy consumption. Solar cells can be used in combination with energy storage devices to solve their disadvantages of intermittency and instability.



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