

Solar power generation drives the rice cooker

Can a parabolic solar concentrated cooker Cook 645 g of rice?

A parabolic solar concentrated cooker with capacity of cooking 645 g of rice in 5 h at peak solar has been proposed. The thermal efficiency of the cooking system has been evaluated and performance was studied in Visakhapatnam geographical location in southeast India.

Can a box-type solar cooker cook rice?

The SRC, with an average available solar power of 107.8 W, achieved a maximum temperature of 142°C. It cooked rice in 2 h for the first meal and 2 h 20 min for the second meal, proving to be a suitable and cost-effective rice cooking solution. The article addresses limitations of box-type solar cookers (SBCs) in low sunlight and night conditions.

How much power does a solar cooker produce?

The cooker can produce 175W of thermal power, which is sufficient for cooking a meal for two people in about two hours [95]. Al-Soud et al. designed a parabolic solar cooker with two automatic tracking axes. They used a steel tube with a 10-cm diameter as the cooking vessel, which makes the device suitable only for liquids.

Can a solar oven be used as a rice cooker?

From a perspective perspective, using a solar oven as a rice cooker is an amazingly simple, efficient and quick way. Even the preheating of water that is used to make rice can be done in a solar oven, according to the principles underlying the use of renewable energy sources.

What is a solar cooker & how does it work?

A solar cooker can be simply defined as it is a device that transfers heat from the sun to a cooking pot, thus increasing its temperature to enabling the food inside to cook.

How long does it take to cook rice in a solar cooker?

According to the test results, this design was able to cook two meals of rice within 4.75h [79]. Harmim et al. used a finned vessel in a box-type solar cooker. They compared the required time for boiling water between the finned vessel and a normal vessel with the same volume and shape.

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