

Title: Mobile solar cooling system design

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The solar-powered evaporative cooling system is designed to be mounted in a car's window for lowering the temperature inside, as the car experiences too much heat.

This project explores the integration of solar energy with a simple evaporative air-cooling system to design a standalone, solar-based air cooler suitable for rural and off-grid applications.

estic and small commercial cooling. They have a compact design where the motor drive and the crankcase are constructed as a single unit. Load springs minimize vibrations and the whole unit is sealed.

This handbook presents the best practices derived from this work, offering a structured approach to designing solar-powered cold rooms that are technically sound, economically viable, and adapted to ...

Abstract -- This study proposes a novel solar-based portable refrigerator system utilizing a Peltier module for efficient cooling. The system is designed to provide a sustainable and energy-efficient ...

The aim of this project is to design a portable solar thermoelectric refrigerator for people living in remote areas, or outdoor applications where electric power supply is absent.

In response to this challenge, the present study introduces a novel design of a portable, locally-made solar-powered cooler optimized for longer storage periods.

In this paper, we develop a novel portable, renewable, solar energy-powered cooling system with wireless power transfer (WPT) and supercapacitors to cool the vehicle cabin. The ...

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