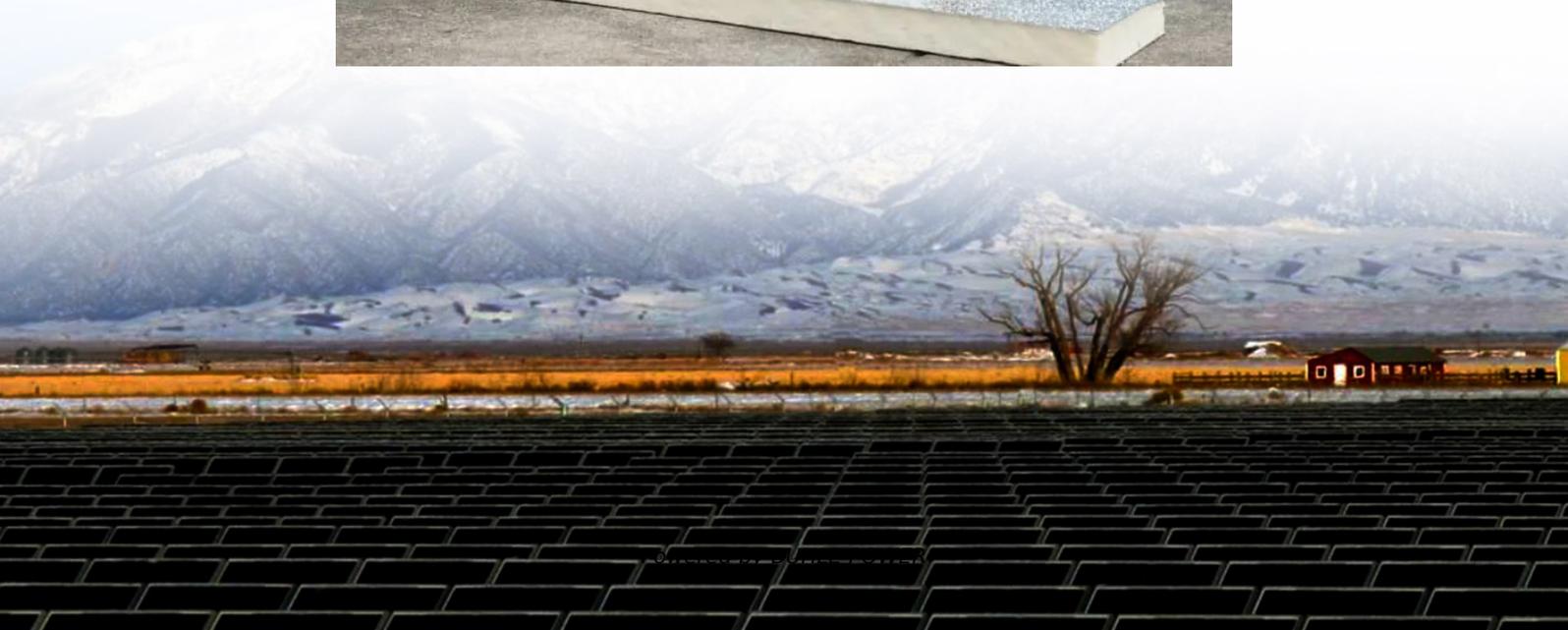


Detailed parameters of Sarajevo solar air conditioning





Overview

What influences the operation probability and runtime fraction of solar air conditioner?

It is seen that from instantaneous operation results shown in Fig. 3, Fig. 4, Fig. 5, the PV system design (PV module size, battery capacity), the variation pattern of solar irradiation, and the load profile influence the operation probability (OPB) and runtime fraction (RF) of solar air conditioner.

Can a direct current air conditioning system be integrated with a photovoltaic system?

Therefore, this paper focuses in the design and construction of a direct current (DC) air conditioning system integrated with photovoltaic (PV) system which consists of PV panels, solar charger, inverter and batteries. The air conditioning system can be operated on solar and can be used in non-electrified areas.

What is the performance of a solar photovoltaic thermoelectric air conditioner?

The performance of a solar photovoltaic thermoelectric air conditioner was experimentally studied. The COP of the air conditioner is estimated to be 1.14 at a PV current of 4.28 A and air flowrate of 14.40 m³/h. Random vector functional link approach was employed to model the solar air conditioner.

What is solar PV driven air conditioner?

The design of direct solar PV driven air conditioner based on stand-alone solar PV system is studied. The air conditioner is driven directly by solar PV module through an inverter. No grid power is connected. In order to balance the solar PV power and load power and reduce the cost, a small buffer battery is installed.



Detailed parameters of Sarajevo solar air conditioning



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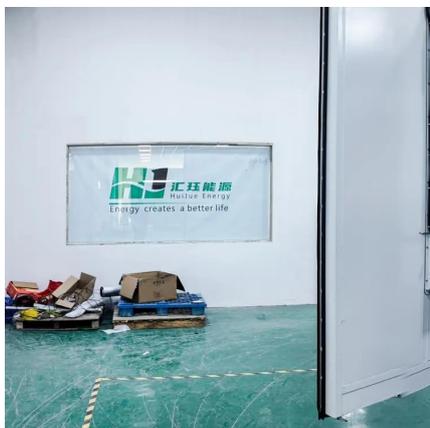


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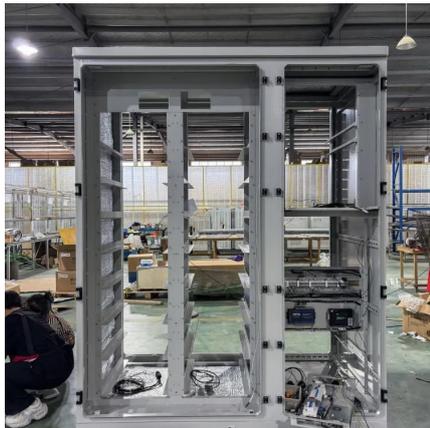
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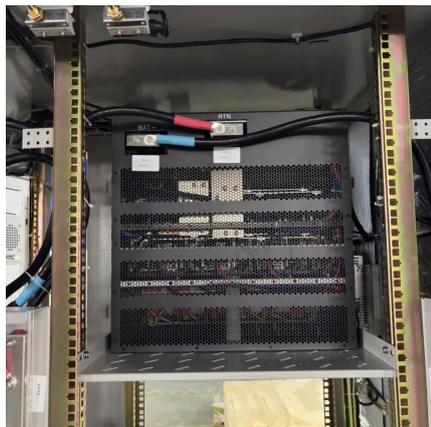
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