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N Djamena solar Glass Greenhouse Specifications





Overview

What are the design strategies of passive solar greenhouses?

Via literature review and expert interview, this study summarizes the design strategies of passive solar greenhouses into (1) building orientation, (2) architectural shapes, (3) envelope materials, (4) heat storage in passive solar greenhouses, and (5) numerical modeling of passive solar greenhouses.

How to design a solar greenhouse?

The design of solar greenhouses is a challenging task and requires a thorough study of the annual climatic and microclimatic parameters of the places where the greenhouses are built, determining the shape, orientation, and materials of which the envelope is composed, even before installing an air conditioning system.

What is the solar area of a greenhouse?

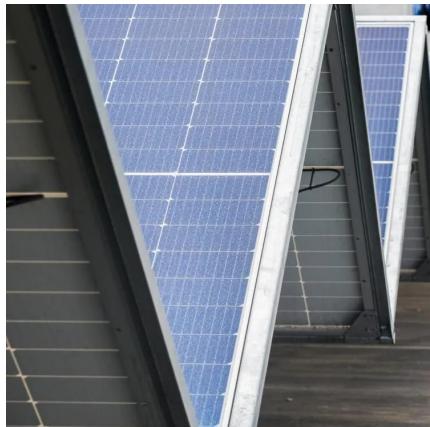
The solar area of the greenhouse is 500 m² while its volume is 2750 m³, whose surfaces with short sides are oriented to the West and East (Baglivo et al., 2020). The geometry of the greenhouse is characterized by a 5 m span width, 100 m total length, 6.5 m ridge height, 4.5 m gutter height.

How many lamps are in a solar greenhouse?

Geometry, spatial orientation, and arrangement of the 48 lamps in the solar greenhouse. Four external openings are located on the long sides at the top and bottom of the greenhouse, covering 3% of the entire envelope (0.12 m x100 m each).



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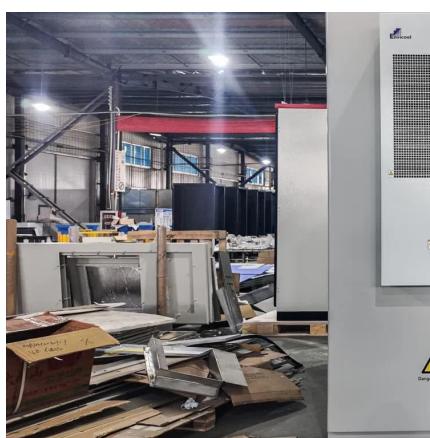
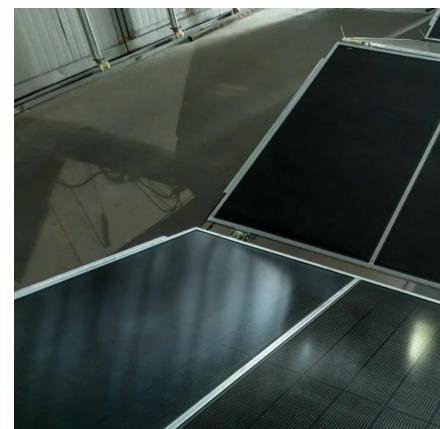


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