



**BUHLE POWER**

# **Interior of the solar glass greenhouse**





## Overview

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How does a solar greenhouse work?

In addition, a matrix of LED strip lights makes growth cycles easier, with the help of Black Light. The greenhouse roof was created with glass and was arranged in a 'diamond' shape to allow the complete capture of sunlight, which enters directly into the solar panels and allows the plants grown inside to receive direct light.

What is a solar greenhouse?

The solar greenhouse: state of the art in energy saving and sustainable energy supply. *Acta Hortic.* 691 (2), 501-508.

doi:10.17660/ActaHortic.2005.691.59 Çakır, U., and Şahin, E. (2015). Using solar greenhouses in cold climates and evaluating optimum type according to sizing, position and location: a case study. *Comput. Electron.*

How much solar energy enters a greenhouse?

The calculated accumulations of the captured and transmitted radiation were 124.2 and 87.99 MJ, respectively, indicating that 70.85% of the solar energy enters the greenhouse through the roof from 9:00 to 16:00 and projects on the greenhouse surfaces.

Does a solar greenhouse have an internal insulation system?

This significantly influences the solar radiation received by the south roof and that projected on the wall, ultimately affecting the light performance of the greenhouse. Therefore, a solar greenhouse with an innovatively applied internal insulation system was proposed in this study.



## Interior of the solar glass greenhouse

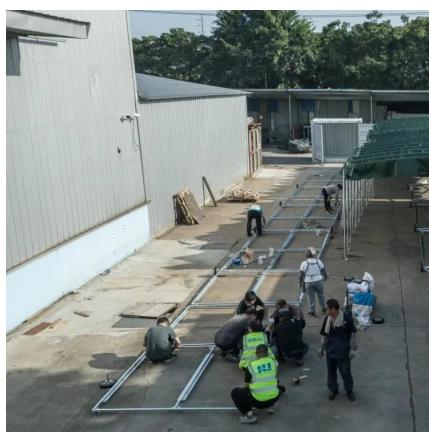


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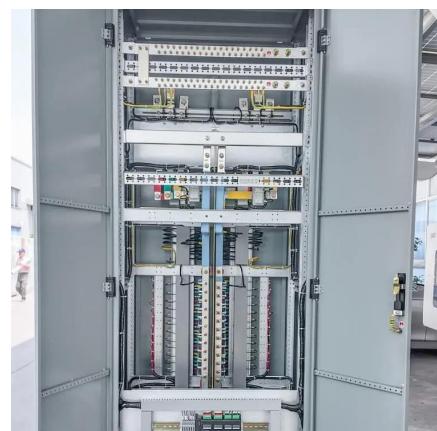
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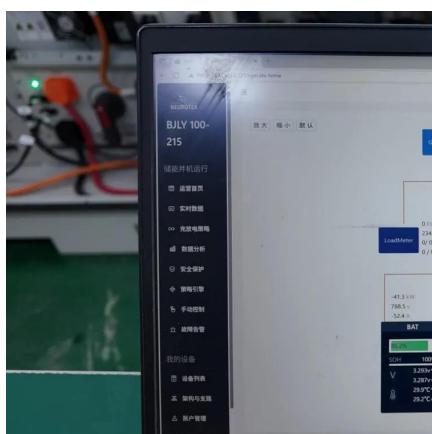
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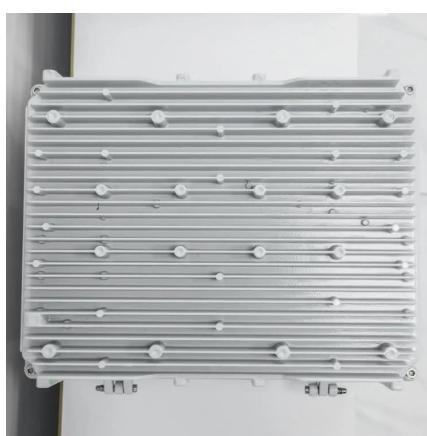
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