

SolarTech Power Solutions

Photovoltaic container house design



Overview

Can a residential container home be off-grid?

Off-grid simulations of residential container homes are lacking in the literature. The module reduces construction waste and CO₂ -emissions and educates for degrowth. Ventilation and heating are controlled based on ambient temperature, SoC, and time. Better energy efficiency, thermal comfort, and less dumped energy are achieved.

How is a container building insulated?

The container walls are insulated with foam insulation on the inside, while OBS sheathing covered with a hard plank siding are added on the outside. The building façade also has an air barrier to ensure an airtightness of 0.6 ACH₅₀, which means 0.6 air changes at 50 Pa pressure difference.

How can containers reduce construction waste?

Because containers already have an infrastructure for transportation, it becomes easier to transport the building back to the factory at the end-of-life for deconstruction and recycling of the structural steel. This can help to reduce construction waste, which, thus far, has often been overlooked in China (Chi et al., 2020).

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Key attributes Design Style Modern After-sale Service Onsite Installation Product Type Container Houses Warranty 1 Year Application Outdoor Use Hotel, House, Office, Sentry Box, Guard ...

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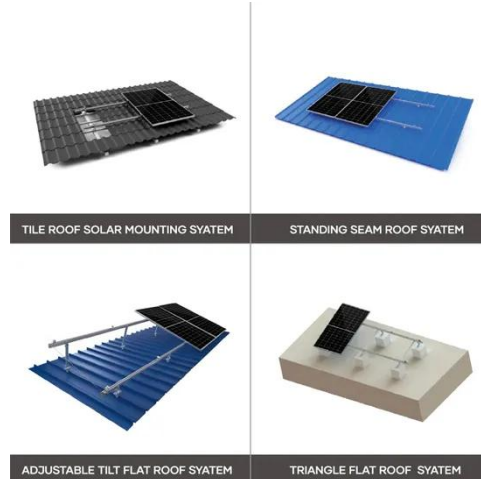
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