

SolarTech Power Solutions

Recommendation of solar air conditioning for buildings in Croatia



Overview

Energy Efficiency Act (Official Gazette 127/14, 116/18, 25/20, 41/21) Building Act (Official Gazette 153/13 - Provisional Translation, 20/17, 39/19, 125/19, 145/24).

Are solar air conditioning systems a future option?

Such systems might be a future option particularly for sunny climates such as in the Mediterranean zone. Hans-Martin Henning (Ed.), Solar-Assisted Air-Conditioning in Buildings, A Handbook for Planners, Springer, Wien, New York, ISBN 3-211-00647-8.

How to improve air-conditioning systems in a building?

Finally, a continuous automatic system monitoring, e.g., using web-based systems is recommendable in order to detect malfunctions or control problems. This is almost standard for large technical systems in buildings today and is particularly reasonable for solar assisted air-conditioning. 5. New developments of thermally driven cooling equipment.

What do you know about solar assisted air conditioning of buildings?

General experiences with installed plants In Task 25 “Solar Assisted Air Conditioning of Buildings”, a project that has been carried out in the framework of the Solar Heating & Cooling Programme of the International Energy Agency (IEA) 11 plants in six countries were monitored. Some important experiences and hints regarding control are:.

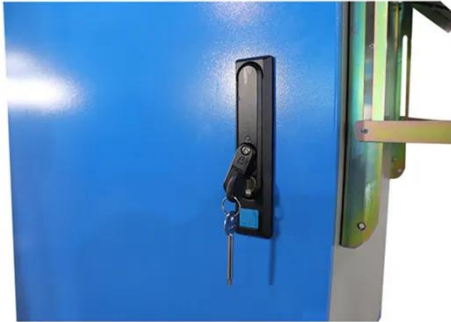
What is the COP of a solar Sorption cooling system?

Regarding solar sorption systems, the solar COP (the ratio of cooling power to the total heat extraction by total solar input) is usually in the range of 0.15–0.6 depending on the solar heating efficiency and the thermal COP (ratio of cooling power to the thermal energy consumed to heat regeneration air) of sorption cooling systems.

Can a solar system be installed outside?

Normally they are located outdoors. For residential solar systems, the air-cooled ammonia-water absorption chillers are suggested, and the air-cooled condenser and absorber could be integrated inner the chiller to make it compact. The solution pump could be removed if a diffusion ammonia-water absorption cycle is introduced.

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Croatia plans tenders for public sector solar ...

Jan 12, 2025 · Croatia is set to allocate EUR25 million for solar plants and heat pumps in the public sector and will also issue a EUR10 million residential solar ...

Solar sorption cooling systems for residential applications: Options

Jun 1, 2009 · The problems for all available solar sorption air conditioning systems are mainly high cost, not easy to maintain, not as reliable as that of electric driven systems, big size and also ...



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LiFePO4 battery will not burn when overcharged, over discharged, overcurrent or short circuited and can withstand high temperatures without decomposition.



Photovoltaic-powered Air Conditioning in Buildings

Jun 8, 2022 · ger systems for multiple rooms or large buildings. Figure 4 shows a solar PV air-conditioning chiller scheme with indirect cooling, where electrical energy from

Top Air Conditioning Unit Manufacturers in Croatia

The company specializes in the manufacturing and distribution of high-quality air conditioning units, emphasizing innovative cooling technology and a commitment to expanding its product ...

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- ✓ Intelligent Integration

Solar PV-powered Room Air Conditioning: Market trends ...

Jun 3, 2025 · This study explores the economic and technical potential of solar-powered air conditioning systems to reduce greenhouse gas emissions from buildings in 17 countries.

A solar powered off-grid air conditioning system with natural

Aug 1, 2023 · A solar powered off-grid air conditioning system with natural refrigerant for residential buildings: A theoretical and experimental evaluation



(PDF) Passive Night



Cooling Potential in Office Buildings in

Aug 10, 2022 · Owing to the advancement in air-conditioning technology, conventional building design approaches tend to encourage sealed indoor spaces that rarely interact with the ...

Solar assisted air conditioning of buildings - an overview

Jul 1, 2007 · Main reasons for the increasing energy demand for summer air-conditioning are the increased thermal loads, increased living standards and occupant comfort demands as well as ...



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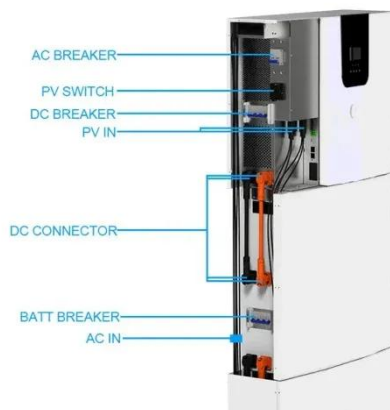
Comparative study of different solar cooling systems for buildings ...

Feb 1, 2010 · Solar cooling is envisioned as the sustainable means to provide air-conditioning and refrigeration, since solar energy is considered to be the primary energy source. Technically, ...

Croatia Imposes Strict

Fines for Air Conditioners on Building ...

Aug 29, 2024 · Croatia's new law, effective January 2025, bans external air conditioners on building façades and imposes fines up to EUR 10,000 to improve urban aesthetics and enforce ...

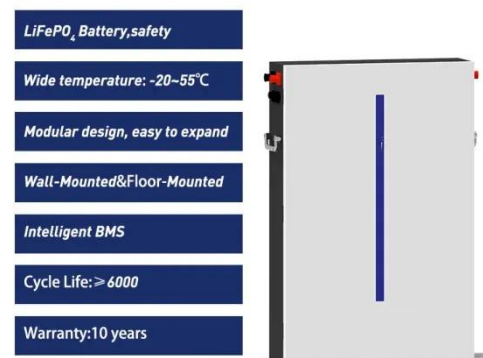


Solar Air Conditioner: The Ultimate Buying Guide ...

Apr 21, 2025 · A solar air conditioner is a fantastic investment if you care about the environment or want to save money on cooling expenditures. But, before ...

Croatia cracking down on visible air-con units on ...

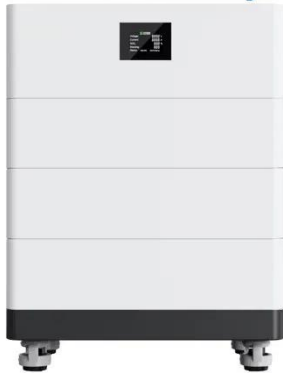
Aug 25, 2024 · Even on buildings that have undergone energy renovations, some air conditioning units remain in place. "Our buildings really look disastrous.



Hybrid solar air-conditioning for tropical regions: integrating ...

Feb 17, 2025 · A 5 kW hybrid solar-

High Voltage Solar Battery



powered air conditioning system is proposed to meet a building's cooling needs. Integration of salt hydrate-based phase change materials (PCM) with ...

(PDF) Solar assisted air conditioning - a new market for solar ...

Solar thermal energy is being explored as a viable option for air conditioning in Europe, particularly in response to increasing demand for cooling in commercial and residential ...



Solar air conditioning of buildings.

Oct 22, 2008 · Original title: Solar air conditioning of buildings. Record ID : 2009-2110 Languages: English Subject: Environment, General information Source: Energija i okolis 2008. ...

Solar energy for air conditioning of an office building in a ...

Dec 1, 2021 · The air conditioning system powered by solar PV panels contributes to reduce the consumption of non-renewable primary energy sources, to promote and integrate renewable ...



The application of solar integrated absorption cooling ...

Nov 1, 2022 · The application of solar integrated absorption cooling system to improve the air quality and reduce the energy consumption of the air conditioning systems in buildings - A full ...

Implementation Croatia of the EPBD in

May 2, 2023 · With regard to RES, the building must meet one of the following three requirements: 1. at least 20% of the total energy needs for the operation of the systems in the ...



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