

BLINK SOLAR

Empa flexible solar panels



Overview

What are flexible solar panels?

These panels use either thin-film technologies like CIGS (Copper Indium Gallium Selenide) or ultra-thin monocrystalline silicon cells embedded in flexible substrates. The key advantage of flexible panels lies in their adaptability.

What is the efficiency record for flexible CIGS solar cells?

One year after announcing an efficiency record, Empa scientists have achieved a new mark of 22.2% for flexible CIGS solar cell on polymer film. Solar cells of this type are especially suited for applications on buildings, vehicles, satellites, airships, and mobile devices.

What are flexible and lightweight solar modules?

Flexible and lightweight solar modules with this technology are especially suited for applications on roofs and facades of buildings, greenhouses, vehicles, airships and portable electronics. Empa collaborates with Swiss company Flisom for roll-to-roll manufacturing of lightweight flexible solar modules for such applications.

How efficient are flexible solar panels in 2025?

Efficiency Gap Narrowing: Premium flexible solar panels in 2025 achieve up to 22.5% efficiency for monocrystalline and 19% for CIGS technology, making them increasingly competitive with rigid panels while maintaining superior installation versatility.

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Flexible solar cells achieve 22.2 per cent ...

Swiss Empa scientists have achieved a new high of 22.2 per cent for flexible CIGS solar cells on plastic films. These solar cells could ...

Flexible solar cells achieve 22.2 per cent efficiency

Swiss Empa scientists have achieved a new high of 22.2 per cent for flexible CIGS solar cells on plastic films. These solar cells could generate electricity on vehicles, satellites, ...



Flexible solar cells with record efficiency of ...

Empa scientists have, once again, enhanced the efficiency of CIGS flexible solar cells. Separately certified measurements disclosed a ...



A Comprehensive Study on Flexible Solar Panels for ...

Flexible solar panels offer distinct advantages over traditional rigid panels, including enhanced portability, lightweight design, and adaptability to various surfaces. Thus, ...



Flexible solar cells with record efficiency of 22.2%.

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Swiss scientists achieve 22.2% efficiency for ...

Scientists result have confirmed a 22.2% efficiency rating for a flexible CIGS solar cell with Germany's Fraunhofer Institute for Solar ...



Flexible Solar Panels: Complete 2025 Guide & Best Options



Comprehensive guide to flexible solar panels: types, efficiency, installation, costs, and top brands compared. Expert reviews and real-world testing included.

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New Record Set For Flexible Perovskite Solar Cells With CIGS

Researchers have combined flexible, lightweight CIGS solar technology with perovskite solar cells to achieve a new solar conversion record.

Contact Us

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