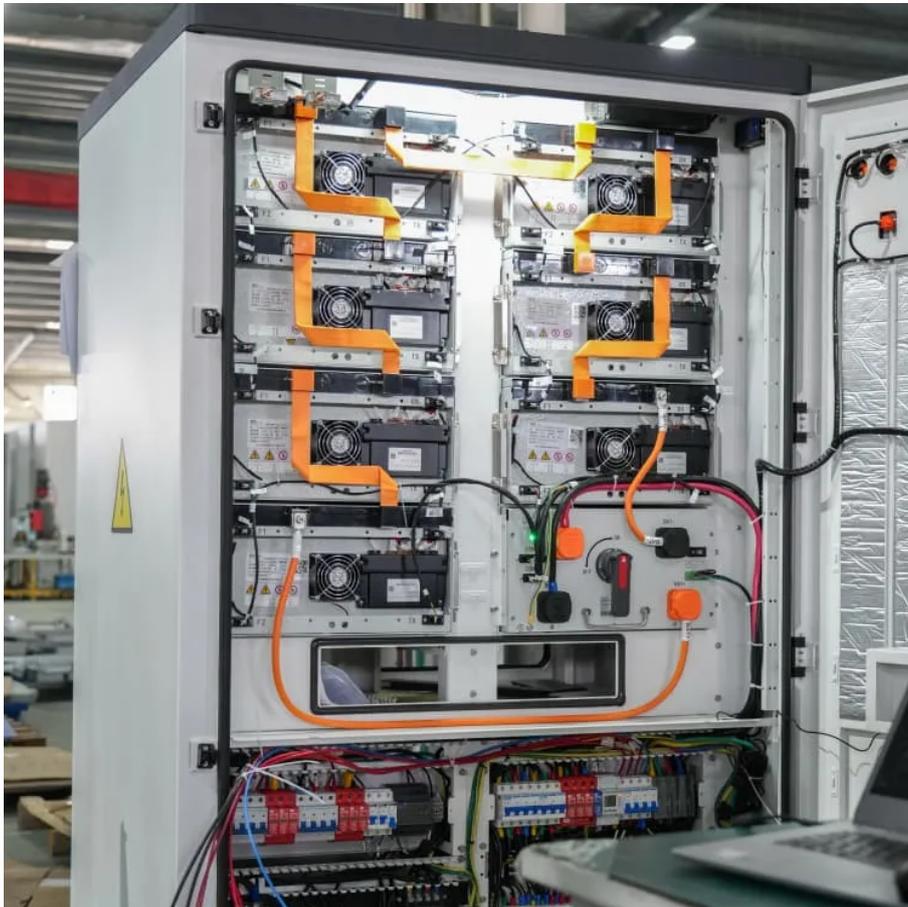


Solar glass and silver paddle





Overview

What is Sunguard ® solar silver 20?

Almost everyone on earth has seen SunGuard ® Solar Silver 20. Guardian supplied 167,000 square metres of it for the Burj Khalifa, the world's tallest building. This reflective glass not only helps architects achieve futuristic designs, it immediately delivers energy savings.

What are solar mirrors made of?

4. Conclusion A large majority of solar mirrors used in commercial concentrated solar plants is made of a thin silver reflector layer (< 200 nm) between glass and paints, to ensure a high reflectance in all the solar spectrum, with a high durability over decades.

What metal is used for solar mirrors?

Commercial silver mirrors for CSP typically have a solar reflectance around 92.5 to 95.5% . The other possible metal for solar mirrors, although much less used, is aluminum, with a lower solar reflectance, close to 86–91% [6, 7]. Other types of mirrors exist, like polymer mirrors, but these still use silver as reflective layers [8, 9].

Is silver a suitable material for concentrated solar mirrors?

Silver is critical material for concentrated solar mirrors but its reserves are low. Ag can be replaced by low cost Al layer with optimized top dielectric stack. Equivalent or higher solar reflectance than classical silver mirrors is predicted. Record solar reflectance of up to 98% is simulated.



Solar glass and silver paddle



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Replacing silver by aluminum in solar mirrors by improving solar

A large majority of solar mirrors used in commercial concentrated solar plants is made of a thin silver reflector layer ([Learn More](#)





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