



# Wentian solar panels power generation

How does the Wentian solar panel work?

With this measure, the Wentian's huge solar panel can face the sun with the most optimized direction at any moment. This ensures the sufficient power supply for the whole space station. The Wentian comes also equipped with the main airlock of the Tiangong space station.

How big is Wentian's solar array?

The total area of the solar array will reach as large as 400 square meters when three main modules including the core module and the two lab modules are assembled. Wentian's solar wing is two times larger than that of the core module Tianhe.

How big are Wentian solar panels?

Apart from its extra large size, Wentian has a set of extraordinarily-long wings - flexible solar panels with double degrees of freedom. The full wingspan is over 55 meters, longer than half a soccer field, setting a new record for solar panels used for China's spacecraft.

How big is Wentian's solar wing?

Wentian's solar wing is two times larger than that of the core module Tianhe. Only four of such solar wings can generate 80 percent of the power for the combination of the core module and two lab modules. There are wrist-like units designed to help rotate Wentian's two 27-meter-long wings by 360 degrees to face the sunlight in unblocked positions.

The two solar panels will effectively collect more solar energy, generating an average of more than 430 kilowatt hours per day and providing sufficient power for space station operations.

By the time China's space station is completed, the total power generation area of the solar wings of the three modules, Tianhe, Wentian and Mengtian, will approach 400 square meters.

As China's first lab module Wentian, belonging to its space station - also the largest and heaviest spacecraft - has been sent to the space, the solar wings installed on it has also grabbed ...

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The solar arrays on Wentian are equipped with flexible triple-junction gallium arsenide-based solar cells and can supply power to the average family for about a month and a half -- making them about two ...

Xiamen Wentian Energy Technology Co., Ltd., formerly known as Xiamen Wentian Automation Engineering Co., Ltd., established in 1997, is a high-tech enterprise engaged in high & low voltage ...

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15 August 2022 CMSA provided on 15 August technical details on the solar arrays of the Chinese Space Station modules. Wentian's solar panels have a solar wingspan of over 55 m. A ...

When the space station is completed, the total power generation area of the solar wings of the three modules, Tianhe, Wentian and Mengtian, will approach 400 square meters, and the power ...

The solar panels mounted on Tianhe, Wentian and the Mengtian module to be launched in October this year were produced through the use of third-generation flexible solar array ...

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