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SolarTech Power Solutions

Russian high temperature solar system

Overview

What is the hottest planet in our Solar System?

But Venus is shrouded in clouds and has a dense atmosphere that acts as a greenhouse and heats the surface to above the melting point of lead. It has a mean surface temperature of 867°F (464°C). So Venus – not Mercury – is the hottest planet in our solar system.

How cold is Uranus?

The remarkable intricacy of this celestial splendor is brought to light by the sharp contrast in temperature. The planet Uranus, sometimes known as the “ice giant,” is one of the most interesting in our solar system. It is the coldest planet, with an average temperature of -216°C (357°F).

What is the temperature of the first planet from the Sun?

The first planet from the Sun, Mercury, experiences extreme differences in temperature when it goes from day to night. During the day, the planet is extremely close to the Sun and can reach up to 430°C!.

What is the warmest planet in the outer Solar System?

Jupiter is the closest gas giant to the Sun and is thus the warmest planet in the outer solar system. The upper atmosphere of Jupiter averages at minus 234 degrees Fahrenheit (minus 145 degrees Celsius). Unlike the inner rocky planets, the temperature of the gas giants does not vary depending on your location from the equator.

What planets are colder than the Sun?

For Jupiter, we think the temperature is roughly -108°C. Saturn is further from the Sun, and so is colder, at roughly -138°C. Finally, the ice giants, Uranus and Neptune. These planets are the furthest from the Sun, and we know the least about these planets as only one mission has passed these planets (Voyager mission).

Why is Uranus so cold?

The planet Uranus, sometimes known as the “ice giant,” is one of the most interesting in our solar system. It is the coldest planet, with an average temperature of -216°C (357°F). The main causes of Uranus’s extreme cold are its unusual axial tilt and large distance from the Sun, which produce long nights and extremely cold temperatures.

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