

How big is the solar system in kilometers





Overview

How big is our Solar System?

Our solar system is so big it is almost impossible to imagine its size if you use ordinary units like feet or miles. The distance from Earth to the Sun is 93 million miles (149 million kilometers), but the distance to the farthest planet Neptune is nearly 3 billion miles (4.5 billion kilometers).

How do astronomers measure the size of our Solar System?

The best way to appreciate the size of our solar system is by creating a scaled model of it that shows how far from the sun the eight planets are located. Astronomers use the distance between Earth and sun, which is 93 million miles, as a new unit of measure called the Astronomical Unit.

How far does our Solar System extend?

Our Solar System extends much, much farther than where the planets are. The furthest dwarf planet, Eris, orbits within just a fraction of the larger Solar System. The Kuiper Belt, where we find a Pluto, Eris, Makemake and Haumea, extends from 30 astronomical units all the way out to 50 AU, or 7.5 billion kilometers. And we're just getting started.

What is the largest planet in the Solar System?

Our solar system's largest planet is an average distance of 484 million miles (778 million kilometers) from the Sun. That's 5.2 AU. Jupiter is the largest of the planets, spanning nearly 1.75 millimeters in diameter on our football field scale. Jupiter's diameter is about equal to the thickness of a U.S quarter in our shrunken solar system.

How many astronomical units is 93 million miles from the Sun?

The Earth averages at 93 million miles (150 million kilometres) from the sun, and so one astronomical unit is equal to that number. Visualization of the solar system from the sun to the Oort Cloud. NASA Another definition for where the



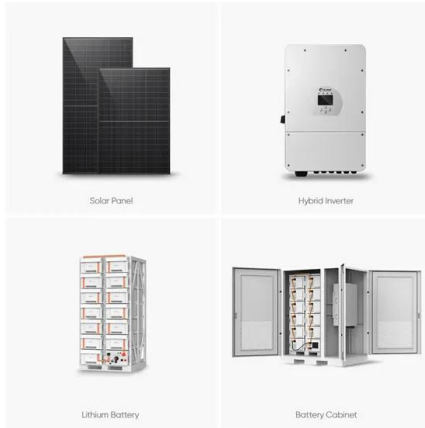
solar system ends is the edge of the Oort Cloud.

How big is the Sun?

On this scale, the Sun, by far the largest thing in our solar system, is only a ball about two-thirds of an inch (17 millimeters) in diameter sitting on the goal line — that's about the width of a U.S. dime coin. Considering a typical honeybee is about half an inch long, the fans are going to need telescopes to see the action.



How big is the solar system in kilometers



[How Big is Our Solar System?](#)

How Big is Our Solar System? 1 Our solar system is so big it is almost impossible to imagine its size if you use ordinary units like feet or miles. The distance from Earth to the Sun is 93 million miles (149 million kilometers), but the distance to the farthest planet

[How Big is the Solar System?](#)

Our scale model of our Solar System shrinks the distance between the Sun and Pluto to 1 cm from 10 million kilometers. How much smaller is our scale model than the actual Solar System? If it takes around 7 hours to travel from Earth to the Moon aboard New Horizons, how long would it take to get to Mars, Jupiter or even Pluto?



[How big is Jupiter? . Space](#)

This gas giant is the largest planet in the solar system, but just how big is Jupiter? The volume of Jupiter is 1,431,281,810,739,360 cubic kilometers, 1,321 times that of Earth. The surface area

[How Big is Our Solar System? 1](#)

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How big is the Solar System?

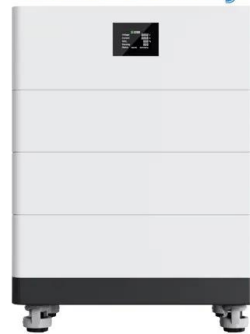
Short answer: The Solar System is a disc shape, 244 astronomical units wide (244 times the distance from the Sun to the Earth, or about 36.6 billion km). Long answer: There is some ...



How Big Is The Solar System?

The next two definitions of how big the solar system is deal in larger distances, and so it is important to define what an astronomical unit is. One astronomical unit is equal to the average distance between the Earth and the sun. The Earth averages at 93

High Voltage Solar Battery



Cosmic Distances

Light years also provide some helpful perspective on solar system distances: the Sun is about 8 light minutes from Earth. (And yes, there are also light seconds!) And because light from objects travels at light speed, when you see the Sun, or Jupiter or a distant star, you're seeing it as it was when the light left it, be that 8 minutes, tens of minutes or 4.3 years ago.



Ceres Facts

Dwarf planet Ceres is the largest object in the asteroid belt between Mars and Jupiter, and it's the only dwarf planet located in the inner solar system. It was the first member of the asteroid belt to be discovered when Giuseppe Piazzi spotted it in 1801. When NASA's Dawn arrived in 2015, Ceres became the first dwarf planet to receive a visit from a spacecraft.



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Solar System Sizes

This artist's concept shows the rough sizes of the planets relative to each other. Correct distances are not shown. Mercury - 1,516mi (2,440km) radius; about 1/3 the size of Earth Venus - 3,760mi (6,052km) radius; only slightly smaller than Earth Earth - 3



[How big is Earth? . Scale of the Universe](#)

If you were to walk around the equator, you'd have to travel a whopping 24,901 miles (40,075 kilometers)! While Earth might seem massive to us, it's unique in its size compared to the rest of the Solar System. For example: The Earth is the fifth largest planet in





How Big is Jupiter? , Size Comparison, Actual Size & Facts

The biggest planet in our Solar System is the gas giant Jupiter. This planet is so big that it would take around 1.300 Earths just to fill its volume! So how big is Jupiter actually? Well, Jupiter has a diameter of around 142.984 km / 88.846 mi at the equator, and a

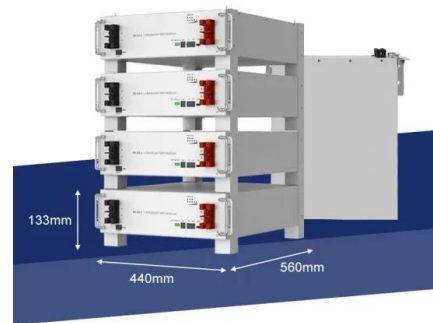


[Solar System Size and Distance](#)

Solar System Size and Distance. How big are the planets and how far away are they compared to each other? See how the sizes of planets and the distances between them compare. And find out why it's so hard to create a scale model of the solar system that accurately ...

Facts About Earth

With a radius of 1,080 miles (1,738 kilometers), the Moon is the fifth largest moon in our solar system (after Ganymede, Titan, Callisto, and Io). The Moon is an average of 238,855 miles (384,400 kilometers) away from Earth.



How Big is Mercury? The Size Is Changing and Here's ...

But because Mercury's small mass is enclosed inside of a tiny body, the planet is the second densest in the solar system, weighing in at 5.427 grams per cubic centimeter, or 98 percent of the



How Big Is the Solar System?

While some astronomers are content to claim that the size of the solar system is around 122 AU, others point out that the solar system should really be defined by the reach of its gravity. In other words, if an object can be said to orbit the Sun, then it ...

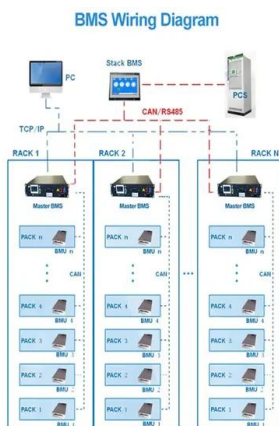


Our Sun: Facts

Our Sun: Facts Our Sun is a 4.5 billion-year-old yellow dwarf star - a hot glowing ball of hydrogen and helium - at the center of our solar system. It's about 93 million miles (150 million kilometers) from Earth and it's our solar system's only star. Without the Sun's

In Depth , Neptune

Introduction Dark, cold, and whipped by supersonic winds, ice giant Neptune is the eighth and most distant planet in our solar system. More than 30 times as far from the Sun as Earth, Neptune is the only planet in our solar system not visible to the naked eye. In



How Big is the Universe? , Size, Why So Big, Infinite & Facts

The Universe is so big because it is constantly expanding, and it does so at a speed that even exceeds the speed of light. Click for more. Think about this for a second; it takes us around three days to reach the Moon, approximately seven months to get the closest planet to us, namely Mars, 15 months to reach Venus, six years to reach Jupiter, seven to reach Saturn, ...



[How big is Saturn? . Scale of the Universe](#)

Now that we know how big Saturn is compared to Earth, let's see how it stacks up against other objects in our Solar System. Jupiter, the largest planet, is only slightly bigger than Saturn. Jupiter's radius is about 11 times that of Earth, compared to Saturn's nine and a half.



Solar System

This stream spreads outwards at speeds from 900,000 kilometres per hour (560,000 mph) to 2,880,000 kilometres per hour (1,790,000 mph), [83] filling the vacuum between the bodies of the Solar System. The result is a thin, dusty ...

[How Big is the Universe? . Astronomy](#)

But the universe is probably much larger than the portion we can see. This will be the case in the highly likely event that the inflation hypothesis, put forth in 1980 by MIT's Alan Guth, proves



[The Sun is 1,400,000 kilometers](#)

- The Sun's volume is so big that it makes up about 99.86% of the total mass of the Solar System. That means almost everything you see in the sky at night, including all the planets, moons, asteroids, and comets, together make up less than 0.15% of the Solar System's mass.



In Depth , Earth

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Voyager 1: How Big Is the Solar System?

Voyager 1 has left the solar system. The big news that the spacecraft reached interstellar space (150 million kilometers). That's about three times as far out as Pluto, which is about 40 AU

How Big Is The Moon?

The moon has a diameter of 2,159-miles (3,475-kilometers) It can be hard to visualize just how big celestial bodies are and the moon is no exception. Earth's moon is fairly big in comparison to other moons in the solar system, but what exactly does that mean .



How big is the Solar System?

Let's look at the size of the entire Solar System. How big is the Solar System? Short answer: The Solar System is a disc shape, 244 astronomical units wide (244 times the distance from the Sun to the Earth, or about 36.6 billion km). Long answer: There is some disagreement over exactly where the edge of the Solar System is, so there are disagreements over its size.



In Depth , Jupiter

encyclopedia of deep space exploration. Our scientists and far-ranging robots explore the wild frontiers of our solar system. With a radius of 43,440.7 miles (69,911 kilometers), Jupiter is 11 times wider than Earth. If Earth were the size of a nickel



Solar System Facts

Our solar system includes the Sun, eight planets, five officially named dwarf planets, and hundreds of moons, and thousands of asteroids and comets. Our solar system is located in the Milky Way, a barred spiral galaxy with two major ...



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