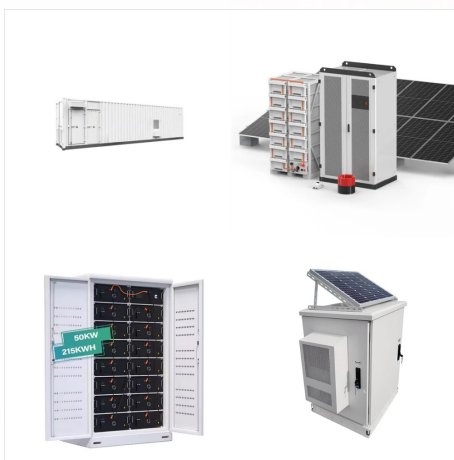




Here is the text of the IAU's Resolution B5:  
 Definition of a Planet in the Solar System:  
 Contemporary observations are changing our understanding of planetary systems, and it is important that our nomenclature for objects reflect our current understanding. This applies, in particular, to the designation "planets".



Eyes on the Solar System. This simulated live view of the solar system allows you to explore the planets, their moons, asteroids, comets and the spacecraft interacting with them in 3D. You can also fast-forward or rewind time, and explore the solar system as it looked from 1950 to 2050, complete with past and future NASA missions.



The planets of the outer solar system are Jupiter, Saturn, Uranus, and Neptune (Pluto is now classified as a dwarf planet): The first thing to notice is that the solar system is mostly empty space. The planets are very small compared to the space between them. Even the dots on the diagrams above are too big to be in proper scale with respect to



? The biggest planet in our solar system . explore;  
What Is the Weather Like on Other Planets? Each  
of the planets in our solar system experiences its  
own unique weather. explore; Is There Ice on Other  
Planets? Yes, there is ice beyond Earth! In fact, ice  
can be found on several planets and moons in our  
solar system.



Overview  
Trans-Neptunian region  
Formation and  
evolution  
General characteristics  
Sun  
Inner Solar  
System  
Outer Solar System  
Miscellaneous  
populations



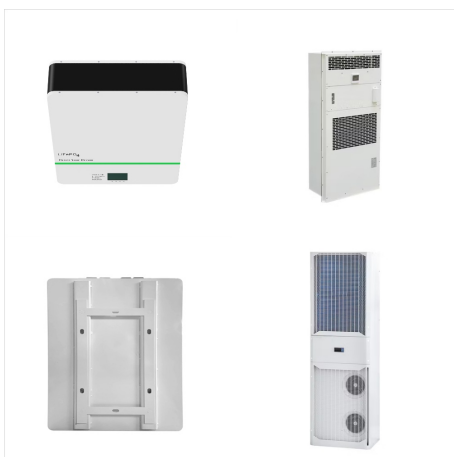
Order Of The Planets In The Solar System: By the  
Numbers  
Distance Of The Planets From The Sun:  
Planet Distance from the Sun Diameter Mass  
Important Notes; Mercury: 57,910,000 km (0.387  
AU) 4,879 km: 3.3022 x 10<sup>23</sup> kg: The closest planet  
to the Sun The smallest The fastest-spinning:  
Venus: 108,200,000 km (0.723 AU)



The night sky over New Zealand's Southern Alps gives a spectacular view of the Milky Way, the galaxy in which our own solar system resides. Mike Mackinven / Getty Images. Our planet Earth is part of a solar system that consists of eight planets orbiting a giant, fiery star we call the sun. For thousands of years, astronomers studying the solar system have noticed ???



As the term is applied to bodies in Earth's solar system, the International Astronomical Union (IAU) lists eight planets orbiting the Sun. Pluto also was listed as a planet until 2006. This is a list of selected planets. (See also astronomy; infrared astronomy; planetarium; radio and radar astronomy; ultraviolet astronomy.) planets of the



Facts about the Planets. Mercury's craters are named after famous artists, musicians and authors.; Venus is the hottest planet in the solar system.; Earth's atmosphere protects us from meteoroids and radiation from the Sun. ; There have been more missions to Mars than any other planet.; Jupiter has more than double the mass of all the other planets combined.



There are 8 planets in our solar system. Comprising eight official planets, our solar system showcases a remarkable variety of celestial objects. These planets are categorized into two main groups



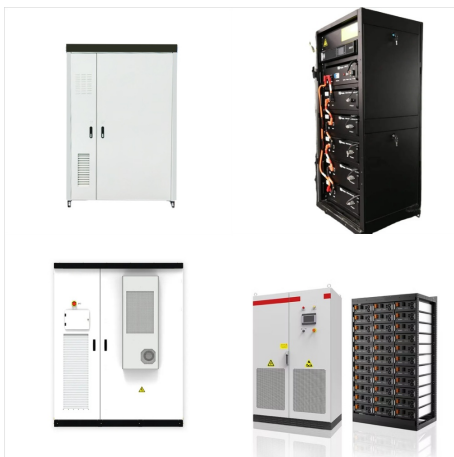
The solar system encompasses planets, moons, asteroids, comets, and dwarf planets, that orbit around the Sun at its center. The solar system was created about 4.6 billion years ago in a collapsing cloud of gas and dust that ???



The solar system was formed approximately 4.6 billion years ago by the collapse of a giant molecular cloud. The mass at its centre collected to form the Sun and a flat disk of dust around it. This eventually formed the planets and other bodies of the solar system.. The solar system consists of the Sun, planets, dwarf planets, moons, and numerous smaller objects such as ???



The Nine Planets is an encyclopedic overview with facts and information about mythology and current scientific knowledge of the planets, moons, and other objects in our solar system and beyond.



The Definition of a Planet The word goes back to the ancient Greek word *planētēs*, and it means "wanderer." A more modern definition can be found in the Merriam-Webster dictionary which defines a planet as "any of the large bodies that revolve around the Sun in the solar system." In 2006, the International Astronomical Union [??]



Solar System Formation. The solar system is located in one of the spiral arms of the Milky Way galaxy. It was born about 4.5 billion years ago when a cloud of interstellar gas and dust collapsed. Most of the material was pulled toward a central point: nearly all of the solar system's mass [??]99.8% [??] is in the Sun.



Astronomers, however, are still hunting for another possible planet in our solar system, a true ninth planet, after mathematical evidence of its existence was revealed on Jan. 20, 2016. The



solar system to scale The eight planets of the solar system and Pluto, in a montage of images scaled to show the approximate sizes of the bodies relative to one another. Outward from the Sun, which is represented to scale by the yellow segment at the extreme left, are the four rocky terrestrial planets (Mercury, Venus, Earth, and Mars), the four hydrogen-rich giant planets ???



The rest of the Solar System is its eight major planets, five dwarf planets, hundreds of moons, and a large number of comets, asteroids, and other small bodies of rock and ice. The extent of the Solar System is defined by the solar wind ??? particles driven by the Sun's magnetic field ??? and gravitational influence.



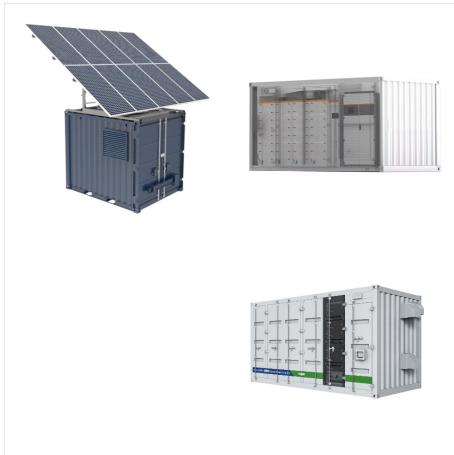
solar system to scale The eight planets of the solar system and Pluto, in a montage of images scaled to show the approximate sizes of the bodies relative to one another. Outward from the Sun, which is represented to scale by the yellow segment at the extreme left, are the four rocky terrestrial planets (Mercury, Venus, Earth, and Mars), the four hydrogen-rich giant ???



Over the past 60 years, humans have begun to explore our solar system in earnest. From the first launches in the late 1950s until today, we've sent probes, orbiters, landers, and even rovers (like NASA's Perseverance Rover that touched down on Mars in February 2021) to every planet in our solar system.



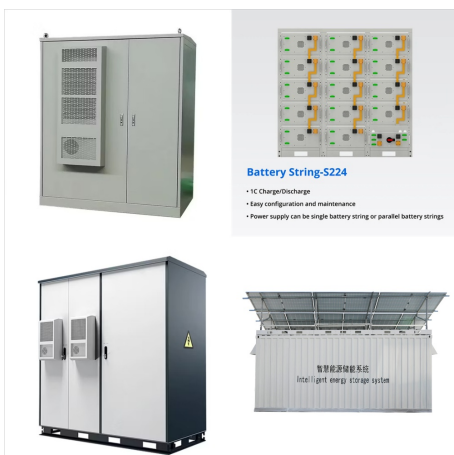
Planetary Fact Sheet in U.S. Units. Planetary Fact Sheet - Values compared to Earth. Index of Planetary Fact Sheets - More detailed fact sheets for each planet. Notes on the Fact Sheets - Explanations of the values and headings in the fact sheet. Schoolyard Solar System - Demonstration scale model of the solar system for the classroom



Planet Nine or Planet 9 is the temporary name of an undiscovered planet whose existence is predicted based on the gravitational effects on bodies at the extreme edge of the solar system. According to these effects, some astronomers estimate the undiscovered planet is about the same size as Neptune.



The solar system has eight planets: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, and Neptune. There are five officially recognized dwarf planets in our solar system: Ceres, Pluto, Haumea, Makemake, and Eris. Get the Facts.



The biggest planet in our solar system . explore; All About the Moon. The biggest planet in our solar system . explore; What Is the Weather Like on Other Planets? Each of the planets in our solar system experiences its own unique weather. explore



With an equatorial diameter of 7926 miles (12,760 kilometers), Earth is the biggest of the terrestrial planets and the fifth largest planet in our solar system. From an average distance of 93 million miles (150 million kilometers), Earth is exactly one astronomical unit away from the Sun because one astronomical unit (abbreviated as AU), is the



Transcript (English) - [Narrator] Our solar system is one of over 500 known solar systems in the entire Milky Way galaxy. The solar system came into being about 4.5 billion years ago when a cloud of interstellar gas and dust collapsed, resulting in a solar nebula, a swirling disc of material that collided to form the solar system.



The solar system is also known as a planetary system. Since the 1990s scientists have found many planetary systems beyond our solar system. In these systems, one or more planets orbit a star???just as the eight planets in our solar system orbit the Sun. These planets are called extrasolar planets.