

Diagram of solar system with asteroid belt





Overview

What is the asteroid belt?

The asteroid belt is the smallest and innermost circumstellar disc in the Solar System. Classes of small Solar System bodies in other regions are the near-Earth objects, the centaurs, the Kuiper belt objects, the scattered disc objects, the sednoids, and the Oort cloud objects.

Where are the asteroid belt asteroids located?

This perspective gives a lot of emphasis to the first billion kilometers from the sun, which is where most of the asteroids are in the main asteroid belt. But, it still includes the entire rest of the solar system, which means that I could include large band of Kuiper belt asteroids near the very edge of our solar system.

Did the asteroid belt originate from Vesta?

In August 2007, a study of zircon crystals in an Antarctic meteorite believed to have originated from Vesta suggested that it, and by extension the rest of the asteroid belt, had formed rather quickly, within 10 million years of the Solar System's origin. The asteroids are not pristine samples of the primordial Solar System.

Does the asteroid belt contain solar system remnants?

"The Origin and Evolution of the Asteroid Belt—Implications for Vesta and Ceres". *Space Science Reviews*. 163 (1-4): 41-61. Bibcode: 2011SSRv.163.410. doi: 10.1007/s11214-011-9808-6. ISSN 0038-6308. S2CID 121856071. ^
"The asteroid belt contains solar system remnants". *EarthSky | Updates on your cosmos and world*. November 3, 2021.

How far apart are asteroid belts?

The identified objects are of many sizes, but much smaller than planets, and, on average, are about one million kilometers (or six hundred thousand miles)



apart. This asteroid belt is also called the main asteroid belt or main belt to distinguish it from other asteroid populations in the Solar System.

What is the inner boundary of the asteroid belt?

The 4:1 orbital resonance with Jupiter, at a radius 2.06 astronomical units (AUs), can be considered the inner boundary of the asteroid belt. Perturbations by Jupiter send bodies straying there into unstable orbits.



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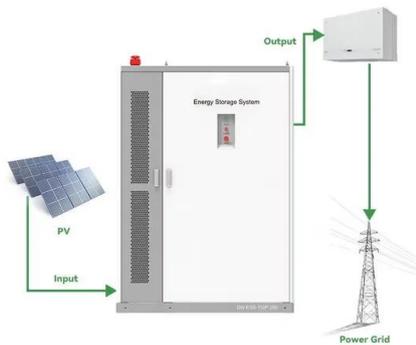


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2 ???· Solar system, assemblage consisting of the Sun and those bodies orbiting it: 8 planets with more than 400 known planetary satellites; many asteroids, some with their own satellites; comets and other icy bodies; and ...

Asteroid belt, orbital diagram

Caption Asteroid belt. Orbital diagram showing the Solar System out to the orbit of Jupiter, including the asteroid belt. The Sun (yellow) is at centre, surrounded by the first five planets (not to scale) and their orbits (white circles). From inner to ...



Kuiper belt

The Kuiper belt (/ 'kaɪpər / (i) KY-pər) [2] is a circumstellar disc in the outer Solar System, extending from the orbit of Neptune at 30 astronomical units (AU) to approximately 50 AU from the Sun. [3] It is similar to the asteroid belt, but is far ...

[Understand Solar System with Diagram](#)

Introduction to Solar System Diagram The solar system is a system that comes with many planets in the universe and the Sun at its center. The word solar is derived from the Latin word "solis." The solar system comes ...



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The solar system contains the Sun at the center, with eight planets, the asteroid belt, the Kuiper belt, comets, and other objects orbiting around it. The solar system has eight planets: Mercury, Venus, Earth, Mars, Jupiter, Saturn, ...

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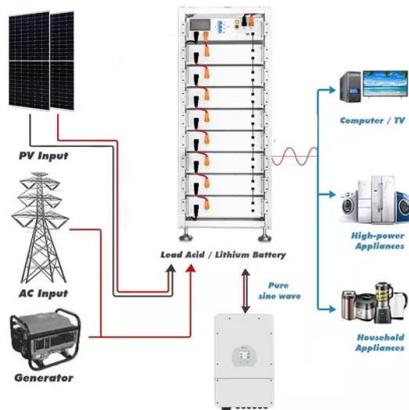
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Asteroid Belt Facts and Location

The asteroid belt is a vast, doughnut-shaped region of the solar system located between the orbits of Mars and Jupiter. This region contains millions of rocky objects, known as asteroids, that vary in size from small ...

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