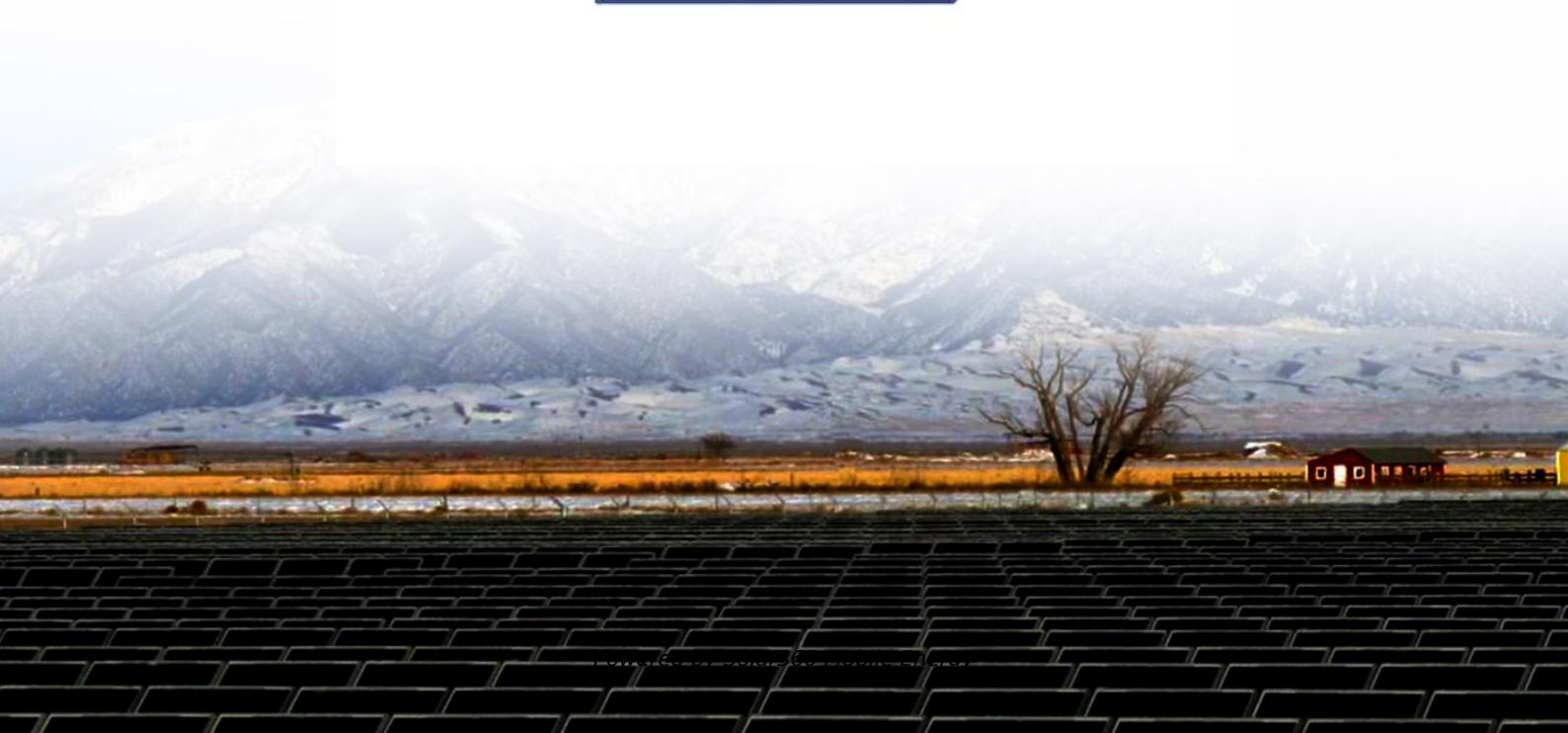




**Solar360 Mobile Energy**

# Where is the solar system in the galaxy





## Overview

---

Where is the Solar System located?

The solar system is situated within the Orion-Cygnus Arm of the Milky Way Galaxy. Alpha Centauri, made up of the stars Proxima Centauri, Alpha Centauri A, and Alpha Centauri B, is the closest star system to the solar system. How did the solar system form?

Scientists have multiple theories that explain how the solar system formed.

Where is the Solar System located in the Milky Way?

**Solar System's Location in the Milky Way:** The solar system is located in one of the spiral arms named the Orion Arm. It is about 27,000 light-years from the galactic center. This location places our solar system in a relatively quiet area, which is beneficial for the development of life on Earth.

Where is the Sun located in the Milky Way?

Our Sun is in a small, partial arm of the Milky Way called the Orion Arm, or Orion Spur, between the Sagittarius and Perseus arms. Our solar system orbits the center of the galaxy at about 515,000 mph (828,000 kph). It takes about 230 million years to complete one orbit around the galactic center. An artist's concept of our solar system.

How far away is our Solar System from the Galactic Center?

Our solar system is approximately 26,000 light-years away from the galactic center. The galactic center is located in the direction of the constellation Sagittarius. This distance places our solar system in the Orion Arm of the Milky Way galaxy.

How far away is the Milky Way galaxy from the center?

Polar view of the Milky Way Galaxy showing the location of the Solar System. As to our distance from the center of the galaxy, the best guess is that we are



26,000 to 28,000 light years from the center. The estimates vary due to uncertainty in the exact size of the galaxy and the time it takes the solar system to complete one orbit of our galaxy.

How close is the Solar System to the equator?

Obviously our solar system lies very close to the galaxy's equator. Figure 1. Polar view of the Milky Way Galaxy showing the location of the Solar System. As to our distance from the center of the galaxy, the best guess is that we are 26,000 to 28,000 light years from the center.



## Where is the solar system in the galaxy

LPSB48V400H  
48V or 51.2V



### Solar System - Definition, Facts, Planets

The Solar System is the gravitationally bound system of the Sun and all celestial bodies that orbit it. This includes planets, moons, asteroids, comets, dwarf planets, and countless particles of dust and ice. It is our cosmic ...

### Galaxy vs. Solar System: What's the Difference?

A galaxy is an enormous system composed of stars, stellar remnants, interstellar gas, dust, and dark matter, all bound together by gravity. It can contain billions of stars and extend over thousands of light-years. In ...



### The Solar System's Place In The Milky Way: Part 1

The four visible orbits are those of the outer giant planets from Jupiter to Neptune. So the plane of the solar system is tilted at an angle of about 60° relative to the plane of the galaxy. It also, as you see, comes close to ...

### **In Depth , Our Solar System - NASA Solar System Exploration**

The planetary system we call home is located in an outer spiral arm of the Milky Way galaxy. Our solar system consists of our star, the Sun, and everything bound to it by gravity - the planets ...



### [The Location of the Solar System in the Milky Way ...](#)

Polar view of the Milky Way Galaxy showing the location of the Solar System. As to our distance from the center of the galaxy, the best guess is that we are 26,000 to 28,000 light years from the center. The estimates vary due to uncertainty in ...

## **Chapter 1: The Solar System**

Our whole solar system, along with all the local stars you can see on a clear dark night, reside in one of our galaxy's spiral arms, known as the Orion arm, as they orbit the supermassive black hole in the dense star cluster ...



### [Solar System, Galaxy, Universe: What's the Difference?](#)

Let's look at the basics. Our Solar System consists of our star, the Sun, and its orbiting planets (including Earth), along with numerous moons, asteroids, comet material, rocks, and dust. Our Sun is just one star among the ...



## Solar System

The Solar System currently moves through a cloud of interstellar medium called the Local Cloud. The closest star to the Solar System, Proxima Centauri, is 4.25 light-years (269,000 AU) away. Both are within the Local Bubble, a relatively ...



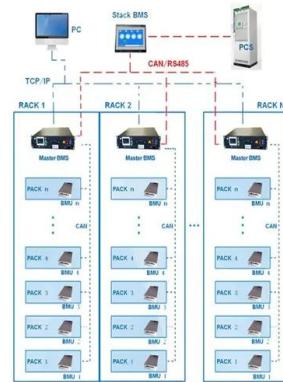
## The Differences Between Galaxies, Solar Systems, ...

However, we define a galaxy's location by which constellation it is in, giving an area of the sky to look for it in. Universe vs. Galaxy vs. Solar System Scale is the main difference between solar systems, galaxies, and the Universe. Solar

...



BMS Wiring Diagram



## Solar system , Definition, Planets, Diagram, Videos,

4 ???- The solar system is situated within the Orion-Cygnus Arm of the Milky Way Galaxy. Alpha Centauri, made up of the stars Proxima Centauri, Alpha Centauri A, and Alpha Centauri B, is the closest star system to the solar ...



## Solar System vs. Galaxy: What's the Difference?

Solar System vs. Galaxy: What's the Difference?  
Last Updated on May 09 2025 Space is a complicated and intricate domain that can be difficult to understand, so many people are unclear about the differences between our ...



### **In which direction does the Sun move through the Milky Way?**

This also applies to the planets orbiting the Sun -- just like the disk of our galaxy, if you were to look at our solar system from the side, the planets orbit the Sun in a relatively flat ...



### **Contact Us**

---

For catalog requests, pricing, or partnerships, please visit:  
<https://solar360.co.za>