

ContainerPower Energy Solutions

Space capsule with solar system



Overview

What is a capsule based spacecraft?

They often contain little fuel other than what is necessary for a safe return. Capsule-based crewed spacecraft such as Soyuz or Orion are often supported by a service or adapter module, and sometimes augmented with an extra module for extended space operations.

What is the Orion space capsule?

The Orion space capsule is a pivotal development in the field of space exploration, designed by NASA to carry astronauts deeper into space than ever before. This advanced spacecraft is engineered to support long-duration missions beyond low Earth orbit (LEO), including missions to the Moon, Mars, and potentially further into the solar system.

How are capsules different from other spacecraft?

Capsules are distinguished from other spacecraft by the ability to survive reentry and return a payload to the Earth's surface from orbit or sub-orbit, and are distinguished from other types of recoverable spacecraft (eg. spaceplanes) by their blunt shape, not having wings.

What is a crewed space capsule?

A crewed space capsule must be able to sustain life in an often demanding thermal and radiation environment in the vacuum of space. It may be expendable (used once, like Soyuz) or reusable (like Dragon 2). Capsules make up the majority of crewed spacecraft designs, although one crewed spaceplane, the Space Shuttle, has flown in orbit.

Is SpaceX's Dragon capsule reusable?

Although originally envisaged as a development of SpaceX's uncrewed Dragon capsule which was used for the NASA Commercial Resupply Services contract, the demands of crewed spaceflight resulted in a significantly redesigned

vehicle with limited commonality. The Dragon capsule was designed to be reusable.

Why is NASA partnering with the Orion space capsule?

These partnerships will help to reduce costs, increase innovation, and accelerate the development of new capabilities, ensuring that NASA can achieve its ambitious exploration goals. The Orion space capsule is a cornerstone of NASA's deep space exploration efforts.

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