



# Spacecraft solar container

What is a satellite transport container?

Satellite transport containers are essential for safely delivering satellites from manufacturing facilities to launch sites, integration locations, and testing facilities.

What is a solarcontainer?

The Solarcontainer is a photovoltaic power plant that was specially developed as a mobile power generator with collapsible PV modules as a mobile solar system, a grid-independent solution represents. Solar panels lay flat on the ground. This position ensures maximum energy harvest. Panels lay flat on the ground.

How many spacecraft containers have beyond gravity delivered?

We have delivered over 60 spacecraft containers to satellite builders in Europe and the US. Beyond Gravity is a leading expert in the design, manufacture, and testing of spacecraft containers. We offer customized containers or rebuild (near) existing solutions, and we are experts in the logistics challenges posed by large containers.

What are satellite storage containers used for?

This is sometimes (unfortunately) vital due to mission or launch delays. The most common uses are: Pre-launch storage- satellite containers serving as secure storage units, maintaining optimal environmental conditions for space hardware awaiting launch or further testing.

What materials are used in satellite transport containers?

Satellite transport containers are constructed using high-performance materials designed to provide robust protection and support. Commonly used materials are: Aluminum alloys- lightweight yet strong, aluminum alloys are used for their excellent strength-to-weight ratio and corrosion resistance.

What is the weight of a satellite container?

This container has an empty mass of 5400 Kg and a total loaded mass of 11000 Kg. It can be transported via a truck, train, ship, or aeroplane. The container comes with temperature, humidity, acceleration, and pressure monitoring devices and is used to protect the satellites during road and air transportation and long-term storage.

The container is equipped with foldable high-efficiency solar panels, holding 168-336 panels that deliver 50-168 kWp of power. It is the perfect alternative to unstable grid power and ...

SpaceX designs, manufactures and launches advanced rockets and spacecraft. The company was founded in 2002 to revolutionize space technology, with the ultimate goal of enabling people to live on ...

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Deze innovatieve container combineert zonne-energie met een slim batterijsysteem, waardoor je altijd en overal aan het werk kunt zonder afhankelijk ...

Material selection is of primary importance when considering small spacecraft structures. Requirements for both physical properties (density, ...

Radioisotope Power Systems (RPS) are an invaluable resource for the exploration of our solar system. Providing both heat and electricity, spacecraft using RPS can operate where its impractical to use ...

Multifunctionality: Discuss how solar containers can power various applications, making them a versatile energy solution. Section 4: Applications of ...

In this article we share some basic advice on how to choose the most suitable satellite transport container for your needs along with information on systems from across the global market.

In this paper, the attitude dynamics of a three-axial-stabilized spacecraft with a partially filled liquid tank and flexible solar panels is investigated completely, and an output-feedback controller ...

NASA satellites for deep space missions will be protected by a container from Beyond Gravity during travel on Earth. The interplanetary NASA mission Europa ...

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Comparative performance metrics (W/kg, W/m<sup>2</sup>, kg/m<sup>2</sup>, and \$/W) were calculated for all solar arrays studied and compared, at the solar array subsystem level and also at the spacecraft ...

This system is realized through the unique combination of innovative and advanced container technology. Our pioneering and environmentally friendly solar systems: ...

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On-Orbit The solar arrays will be deployed to ensure power supply and the heat rejection will be performed via space radiators. The system will perform orbital manoeuvres and will berth at the ...

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Alex sistemi SpA is the leading company in the design, manufacture, integration and testing of Spacecraft Transport Containers and Modules for the Orbiting Space Station.

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