

Ball lightning solar container

<div class="df_qntext">What is ball lightning?

Ball lightning has been described as transparent, translucent, multicolored, evenly lit, radiating flames, filaments or sparks, with shapes that vary between spheres, ovals, tear-drops, rods, or disks. Although they are separate and distinct phenomena, ball lightning is often erroneously identified as St. Elmo's fire.

<div class="df_qntext">What is ball lightning made of?

Oleg Meshcheryakov suggests that ball lightning is made of composite nano or submicrometer particles--each particle constituting a battery. A surface discharge shorts these batteries, causing a current that forms the ball. His model is described as an aerosol model that explains all the observable properties and processes of ball lightning.

<div class="df_qntext">What is a solar container?

The Solar container 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.

<div class="df_qntext">What is the electron-ion model of ball lightning?

The electron-ion model describes not only ball lightning, but also bead lightning, which usually occurs when linear lightning disintegrates. Based on the known dimensions of the beads of bead lightning, it is possible to calculate the electric charge of a single bead and its magnetic field.

<div class="df_qntext">What explains the strange characteristics of ball lightning?

The theory could explain many of the strange characteristics of ball lightning. For instance, microwaves are able to pass through glass, which helps to explain why balls could be formed indoors. Julio Rubinstein, David Finkelstein, and James R. Powell proposed that ball lightning is a detached St. Elmo's fire (1964-1970). [citation needed]

<div class="df_qntext">Does ball lightning vaporize silica?

This hypothesis suggests that ball lightning consists of vaporized silicon burning through oxidation. Lightning striking Earth's soil could vaporize the silica contained within it, and somehow separate the oxygen from the silicon dioxide, turning it into pure silicon vapor.

Abstract Ball lightning (BL) has been observed for centuries. There are large number of books, review articles, and original scientific papers devoted to different aspects of BL phenomenon. Yet, the basic ...

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Due to presence of the charge, the protons remain in the external spherical shell of the ball lightning under the influence of its electric and magnetic fields. Neutrons leave the region of the ...

High-efficiency Mobile Solar PV Container with foldable solar panels, advanced lithium battery storage (100-500kWh) and smart energy management. Ideal for remote areas, emergency rescue and ...

In this special experimental presentation, Dr. Kiril Chukanov demonstrates his "Angelina IV" prototype generating & maintaining a stable ball-lightning plasmoid, which he claims can be used to manipulate ...

The solar container is lifted using the corner corners in the roof frame. With these in the base frame, the module can be fixed and secured during transport using the twist-lock system.

A plasma ball, plasma globe, or plasma lamp is a clear glass container filled with noble gases, usually a mixture of neon, krypton, and xenon, that has a high-voltage electrode in the center of the container. When voltage is applied, a plasma is formed within the container. Plasma filaments extend from the inner electrode to the outer glass insulator, giving the appearance of multiple constant beams of colored light. Plasma balls wer...

Production of ball-lightning-like luminous balls by electrical discharges in silicon. Physical Review Letters 98, 048501] reported that an electric arc to silicon produced long-lasting ...

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