

Patent for safe solar container technology





Overview

the present invention relates to the field of solar power generation substrates and systems, and more specifically relates to a solar panel protective container apparatus and system configured to protect solar panels from damage caused by storms exhibiting high winds and airborne debris. the present invention relates to the field of solar power generation substrates and systems, and more specifically relates to a solar panel protective container apparatus and system configured to protect solar panels from damage caused by storms exhibiting high winds and airborne debris. Further. The present disclosure describes a solar energy storage system. A storage container is provided, comprising a base having a compartment defined by a planar exterior surface and a planar interior surface and a battery stored in the compartment of the base. A plurality of solar panels are operably connected to the battery. A portable, solar assisted, temperature controlled container comprises: a body with a cavity; a lid sealable thereon; a detachable solar panel producing electric power; a thermoelectric cooling unit; an interior heat sink secured in the cavity proximate to an interior side of the thermoelectric. [0002] The present invention relates generally to an environmentally friendly refrigeration unit and more particularly to a solar-powered refrigeration container that allows stored foods, beverages and other objects to be properly refrigerated when outdoors and more specifically to a refrigeration container. A passive solar collector has a reflector or a plurality of reflectors in a tube that is in a partial vacuum and is entirely or partly transparent. An absorber collects light reflected by the reflector or plurality of reflectors and delivers energy from the collected light to a central tube where. Search specific patents by importing a CSV or list of patent publication or application numbers. The invention discloses a solar container system which comprises a highly-efficient photovoltaic assembly, a storage battery, a solar hot-water supply and power generation system, an inverter, a.



Patent for safe solar container technology

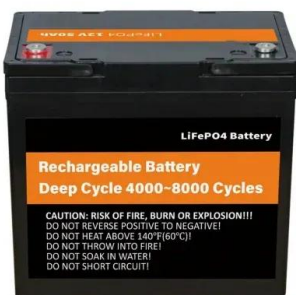


Optimizing Solar Photovoltaic Container Systems: Best Practices and

With the world moving increasingly towards renewable energy, Solar Photovoltaic Container Systems are an efficient and scalable means of decentralized power generation. All the ...

THE POWER OF SOLAR ENERGY CONTAINERS: A ...

As technology continues to advance and adoption expands globally, the future of solar containers looks promising. Experience the power of solar energy containers and contribute to a ...



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UNLOCKING OFF-GRID POWER: THE ULTIMATE GUIDE TO SOLAR ENERGY CONTAINERS

In today's dynamic energy landscape, harnessing sustainable power sources has become more critical than ever. Among the innovative



solutions paving the way forward, solar energy ...



Meta Title: "SMA Solar Technology AG Patent: Space-Saving Energy

SMA Solar Technology has patented a platform for a space-saving energy conversion system. The design allows containers to be stacked vertically with the platform in between, providing easy access ...

Solar-powered refrigerated container

The container is solar-powered with a solar collector on its outer surface, but it also has an internal battery, which powers a thermoelectric cooling unit, fans, control panel and may house ...



WO2021028934A1

The present invention relates to portable solar powered cold storage system comprising of solar power source; string junction box; charge regulator; solar off-grid inverter; battery unit; cooling unit; and ...

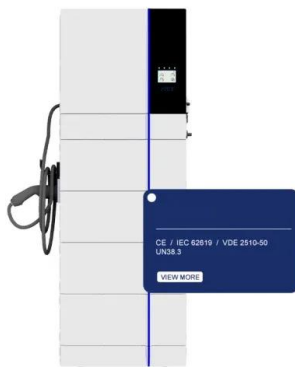


SolaraBox Solar Containers , Products & Configurations

A mobile solar container is a factory-built, transportable unit that integrates solar panels, battery storage, and power controls--providing plug-and-play, rapid-deploy clean electricity for remote sites, events, ...



2MW / 5MWh
Customizable



US4981019A

Solar powered portable food container Abstract A portable food container is cooled by a solar powered refrigeration unit and includes a thermoelectric power unit and heat pipes so that the container will be ...

The Advantages and Applications of Solar Power Containers

A solar power container is a pre-fabricated, portable unit--typically housed in a standard shipping container--that integrates photovoltaic panels, inverters, battery storage, and power ...



US4579170A

In the past, various types of thermal energy storage materials or phase change materials have been used in a variety of heating or cooling installations. Such uses have been, for example, in thermal ...





U.S. Patent for Containment, storage and shipping of lithium batteries

This can be in the form of a coating on one or more walls of the battery containment apparatus on a vehicle or in a shipping container; for storage and shipment of batteries the ...



CONTAINER TECHNOLOGY ADVANCEMENTS

Solar container technology application areas
Solar containers can be applied in cases when grid power is unavailable or unreliable; remote communities, disaster areas, mining/military spots. Government ...

No.1 Capacity Solar Container , Solarabox

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 ...



Shipping container patented technology retrieval search results

This page includes the patent name, patent number, legal status, invention/applicant, technical efficacy and accompanying drawings of Shipping container-related invention patents and utility model ...



Hacon Solar Container

The Hacon Solar Container is an advanced energy solution designed to deliver clean, reliable, and location-independent power. By integrating high-performance solar panels directly into the container ...

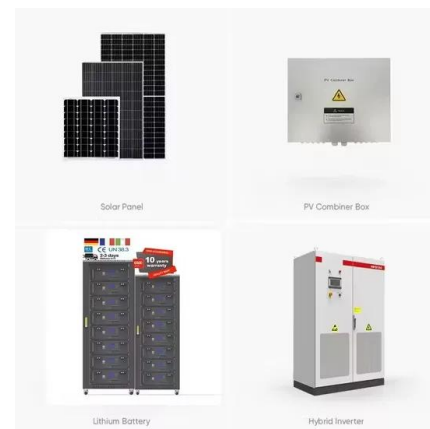


Shipping container patented technology retrieval search results

Patsnap Eureka AI that helps you search prior art, draft patents, and assess FTO risks, powered by patent and scientific literature data. A shipping container is a container with strength suitable to ...

US Patent Application for SOLAR ENERGY INTERMODAL ...

Solar PV technology has improved significantly in the last 20 years and may be utilized as the exterior walls and roof of IM containers, or attached thereto to form Solar electrified IM containers (SIM).



US12212138B2

A movable storage container includes: a plurality of walls defining an enclosure for storing items; a solar power generation array affixed to an outer surface of at least one of the walls; an energy storage ...



Container energy storage patent

Container energy storage patent On April 9, CATL unveiled TENER, the world's first mass-producible energy storage system with zero degradation in the first five years of use. Featuring all-round safety, ...



US20250070710A1

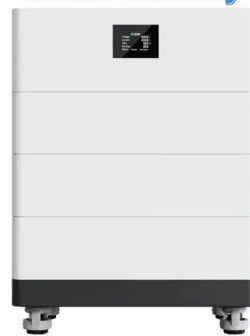
The present disclosure concerns a large surface area solar energy generation apparatus and method that protects the solar system from meteorological or any other ambient threat and restores the



Solarcontainer: The mobile solar system

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

High Voltage Solar Battery



KR102772852B1

The present invention relates to an eco-friendly solar container system that can be installed without a separate permit in a container space to which an independent solar power generation system is ...





SOLAR ENERGY CONTAINER SYSTEM AND METHODS

The present disclosure describes a solar energy storage system. A storage container is provided, comprising a base having a compartment defined by a planar exterior surface and a planar interior ...



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