

**JH Solar**

# **What are the patents for portable energy storage**



## Overview

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From the development of novel materials to the refinement of energy storage mechanisms, the landscape for patenting battery technologies is complex and requires a strategic approach. Battery technologies have seen unprecedented growth over the past decade, becoming a critical component in global.

From the development of novel materials to the refinement of energy storage mechanisms, the landscape for patenting battery technologies is complex and requires a strategic approach. Battery technologies have seen unprecedented growth over the past decade, becoming a critical component in global.

In one embodiment, a system for deploying batteries, for example in an electric vehicle, includes a battery belt for mechanically linking multiple batteries together, a conduit having one or more operational zones each with an output, the operational zones each establishing an electrical connection.

That's portable energy storage in action – and behind every sleek device lies a web of patents protecting these innovations. As of 2025, the global energy storage market has ballooned to a \$33 billion industry pumping out 100 gigawatt-hours annually [1]. But what exactly makes a "portable energy.

The portable solar energy system stores electrical energy generated by a solar panel, which is made of an array of photovoltaic cells, in a dc storage battery, and upon demand converts the dc voltage of the battery to an ac output suitable for supplying conventional electrical appliances. The.

A portable energy storage and power supply system includes a first housing member, a second housing member coupled to the first housing member, a gasket coupling the first housing member with the second housing member, a battery, and a connector assembly coupled to the battery. The first housing.

The utility model belongs to the technical field of the battery production is made, concretely relates to portable energy storage power supply, which comprises an outer shell, the group battery of setting in the shell, a controller, lift passageway and elevating system, elevating system installs in.

## What are the patents for portable energy storage

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### Goldlight Secures Patent for Energy Storage System and Portable ...

The patent summary reveals that this utility model discloses an energy storage power supply and its portable module, relating to the technology field of portable energy ...

### Portable energy storage and charging device

Disclosed is a portable charger device that includes a chamber to hold at least one rechargeable charging battery, and at least one controller. The controller is configured to determine a first ...



### What are the patents for energy storage materials? , NenPower

The ongoing efforts to enhance and innovate energy storage systems have led to the development of various patents spanning multiple types of technologies, and ...

### U.S. Patent Application for PORTABLE ENERGY

15. A non-transitory computer readable storage medium having instructions stored thereon that when executed by a processor perform a method

of operating a portable energy system, ...



## What Is a Portable Energy Storage Patent? (And Why You

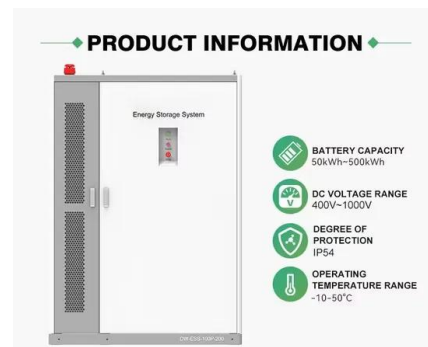
...

Portable Power on the Go: More Than Just a Fancy Battery Ever tried charging your phone during a camping trip using a solar-powered battery the size of a paperback book? ...

## Battery Energy Storage Systems Report

This information was prepared as an account of work sponsored by an agency of the U.S. Government. Neither the U.S. Government nor any agency thereof, nor any of their employees,

...



## What are the patents for mobile energy storage? , NenPower

The realm of mobile energy storage is rapidly evolving, driven by increasing demand for efficient and sustainable power solutions for electronic devices, electric vehicles, ...

## Portable energy storage power supply

Currently, the most used energy storage devices include mobile power sources and energy storage power sources. The portable power source usually has only single 5V input and ...



### US20220366516A1

A method for controlling a portable energy storage system (PESS) includes: creating a decision optimization model for the PESS, which includes an objective function for maximizing available ...

### US12283705B2

In certain embodiments, a portable power pack includes two opposing plates for accommodating a set of one or more batteries therebetween. The two opposing plates define a plurality of ...



### US11695184B2

The system further includes an operational zone for receiving an energy storage pack and establishing an electrical connection between the received energy storage pack and an ...



## Portable solar powered cold storage system

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 ...



## U.S. Patent for Portable solar power generator with energy storage

Additionally and alternatively, one or more batteries 20 may be disconnected from the battery 20 to reduce the energy storage capacity of the battery 20, such as to make the solar power ...

## PORTABLE ELECTRICAL ENERGY STORAGE DEVICE

Lithium-ion batteries have found wide application in powering portable electronic devices such as cell phones, tablets, laptops, power tools and other high-current equipment.



## CN113114089A

The application relates to the technical field of energy storage power supplies, in particular to a portable emergency mobile energy storage power supply; the solar photovoltaic power ...

## US7732948B2

An embodiment of the invention includes a portable energy device having a housing and an energy storage device. The housing includes electrical input terminals and electrical output ...



## US7388348B2

Japanese Patent No. 2002-238,183, published on Aug. 23, 2002, describes a portable solar energy system in a trunk style case with an inverter for generating ac electrical power and

## Energy storage techniques, applications, and recent trends: A

Energy is essential in our daily lives to increase human development, which leads to economic growth and productivity. In recent national development plans and policies, ...



## PORTABLE ENERGY STORAGE AND POWER SUPPLY ...

An operator may utilize the portable energy storage and power supply system to charge or otherwise power electronic devices (e.g., cellular telephones, portable music players, ...)

## Explore the patents that make us a leader in ...

Patents Explore our patents With over 701 patents and pending patent applications filed around the world, Enphase Energy is a global leader in patent filings covering renewable energy technology. We're committed to ...

### Lithium battery parameters

Product capacity: 100Ah

Product size: 135\*197\*35mm

Product weight: 1.82kg

Product voltage: 3.2V

internal resistance: within 0.5



## US20250183672A1

Described herein are systems for energy storage leveraging various advances in power electronics so that the systems are suitable for stationary and portable power applications. In ...



### 114KWh ESS



## Multifunctional bidirectional portable energy storage

The portable energy-storing power supply is one outdoor power supply equipment. In the face of noisy environments, busy work, people can go out around the weekends to travel, relax ...



## Mobile energy storage technologies for boosting carbon neutrality

Compared with traditional energy storage technologies, mobile energy storage technologies have the merits of low cost and high energy conversion efficiency, can be flexibly ...

## A vehicle with a housing for removably retaining at least a portable

The present invention relates to a novel vehicle (100) powered by one or more portable energy storage devices (102-1,102-2). Said energy storage devices (102-1,102-2) are housed within a ...



## Explaining IP's role in battery energy storage systems

The days when batteries were simple chemical-based means of storing energy are history. The modern and rapidly evolving age of battery power is built upon sophisticated ...

### US10158102B2

Electrical energy storage device for powering portable devices such as vehicles or consumer electronics includes barriers to minimize migration of thermal energy and propagation of ...



### [US20100045237A1](#)

A multifunctional portable energy storage device, particularly, an energy storage device with functions of electric quantity storage, AC and DC charging, electric quantity detection, and DC ...

## **Demands and challenges of energy storage technology for future ...**

Emphasising the pivotal role of large-scale energy storage technologies, the study provides a comprehensive overview, comparison, and evaluation of emerging energy ...



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