

Solar Battery Market Report by Type (Lead Acid, Lithium Ion, Flow Battery, and Others), Capacity (Below 75 AH, 75 To 150 AH, Above 150 AH), End User (Industrial, Commercial, Residential), and Region 2024-2032

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Abstracts

The global solar battery market size reached US\$ 204.2 Million in 2023. Looking forward, IMARC Group expects the market to reach US\$ 590.0 Million by 2032, exhibiting a growth rate (CAGR) of 12.3% during 2024-2032.

A solar photovoltaic (PV) system is utilized for ensuring a continuous power supply and reducing carbon footprint. It consists of one or more solar panels, electrical and mechanical hardware and an inverter that aids in storing electrical energy in solar batteries. Solar batteries are subjected to frequent charging as well as discharging processes and help provide energy to electrical loads at a stable voltage by suppressing voltage fluctuations in a solar PV system.

Solar Battery Market Trends:

At present, there is a considerable increase in the utilization of eco-friendly and cost-effective energy solutions around the world on account of stringent regulations imposed by governments of several countries to minimize reliance on exhaustible resources. This represents one of the key factors bolstering the growth of the market. Moreover, solar PV systems find extensive applications in grid systems, which are attached to the local utility grid, to cater to the continuous energy requirements of the global population. They are also used in solar streetlights for providing reliable power to ensure quick payback on large capital projects, which, in turn, is strengthening the market growth. In addition, solar PV systems are utilized in smart grids to offer critical energy back to the grid during peak hours. This, along with the thriving energy sector, is fueling the market

growth. Besides this, the adoption of these systems in the residential and commercial sectors is increasing the self-reliance of owners and significantly reducing the monthly electricity bill, which is impelling the market growth. Apart from this, the growing prominence of energy trading using blockchain and artificial intelligence (AI) technologies is projected to offer lucrative growth opportunities to leading players.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global solar battery market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on type, capacity and end user.

Breakup by Type:

- Lead Acid
- Lithium Ion
- Flow Battery
- Others

Breakup by Capacity:

- Below 75 AH
- 75 To 150 AH
- Above 150 AH

Breakup by End User:

- Industrial
- Commercial
- Residential

Breakup by Region:

- North America
 - United States
 - Canada
- Asia-Pacific
 - China
 - Japan

India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being BAE Batterien GmbH, BYD Co. Ltd., Contemporary Amperex Technology Co. Ltd., EnerSys, Exide Industries Limited, LG Electronics Inc. (LG Corporation), Loom Solar Pvt. Ltd., Luminous Power Technologies Private Limited (Schneider Electric SE), Okaya Power Pvt. Ltd., Panasonic Corporation, SAFT (TotalEnergies SE), Samsung SDI Co. Ltd and Tesla Inc.

Key Questions Answered in This Report

1. What was the size of the global solar battery market in 2023?
2. What is the expected growth rate of the global solar battery market during 2024-2032?
3. What are the key factors driving the global solar battery market?
4. What has been the impact of COVID-19 on the global solar battery market?
5. What is the breakup of the global solar battery market based on the type?
6. What is the breakup of the global solar battery market based on the end user?
7. What are the key regions in the global solar battery market?
8. Who are the key players/companies in the global solar battery market?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL SOLAR BATTERY MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY TYPE

- 6.1 Lead Acid
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Lithium Ion
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3 Flow Battery

- 6.3.1 Market Trends
- 6.3.2 Market Forecast
- 6.4 Others
 - 6.4.1 Market Trends
 - 6.4.2 Market Forecast

7 MARKET BREAKUP BY CAPACITY

- 7.1 Below 75 AH
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2 75 To 150 AH
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
- 7.3 Above 150 AH
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast

8 MARKET BREAKUP BY END USER

- 8.1 Industrial
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
- 8.2 Commercial
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast
- 8.3 Residential
 - 8.3.1 Market Trends
 - 8.3.2 Market Forecast

9 MARKET BREAKUP BY REGION

- 9.1 North America
 - 9.1.1 United States
 - 9.1.1.1 Market Trends
 - 9.1.1.2 Market Forecast
 - 9.1.2 Canada
 - 9.1.2.1 Market Trends
 - 9.1.2.2 Market Forecast

9.2 Asia-Pacific

9.2.1 China

9.2.1.1 Market Trends

9.2.1.2 Market Forecast

9.2.2 Japan

9.2.2.1 Market Trends

9.2.2.2 Market Forecast

9.2.3 India

9.2.3.1 Market Trends

9.2.3.2 Market Forecast

9.2.4 South Korea

9.2.4.1 Market Trends

9.2.4.2 Market Forecast

9.2.5 Australia

9.2.5.1 Market Trends

9.2.5.2 Market Forecast

9.2.6 Indonesia

9.2.6.1 Market Trends

9.2.6.2 Market Forecast

9.2.7 Others

9.2.7.1 Market Trends

9.2.7.2 Market Forecast

9.3 Europe

9.3.1 Germany

9.3.1.1 Market Trends

9.3.1.2 Market Forecast

9.3.2 France

9.3.2.1 Market Trends

9.3.2.2 Market Forecast

9.3.3 United Kingdom

9.3.3.1 Market Trends

9.3.3.2 Market Forecast

9.3.4 Italy

9.3.4.1 Market Trends

9.3.4.2 Market Forecast

9.3.5 Spain

9.3.5.1 Market Trends

9.3.5.2 Market Forecast

9.3.6 Russia

9.3.6.1 Market Trends

9.3.6.2 Market Forecast

9.3.7 Others

9.3.7.1 Market Trends

9.3.7.2 Market Forecast

9.4 Latin America

9.4.1 Brazil

9.4.1.1 Market Trends

9.4.1.2 Market Forecast

9.4.2 Mexico

9.4.2.1 Market Trends

9.4.2.2 Market Forecast

9.4.3 Others

9.4.3.1 Market Trends

9.4.3.2 Market Forecast

9.5 Middle East and Africa

9.5.1 Market Trends

9.5.2 Market Breakup by Country

9.5.3 Market Forecast

10 SWOT ANALYSIS

10.1 Overview

10.2 Strengths

10.3 Weaknesses

10.4 Opportunities

10.5 Threats

11 VALUE CHAIN ANALYSIS

12 PORTERS FIVE FORCES ANALYSIS

12.1 Overview

12.2 Bargaining Power of Buyers

12.3 Bargaining Power of Suppliers

12.4 Degree of Competition

12.5 Threat of New Entrants

12.6 Threat of Substitutes

13 PRICE ANALYSIS

14 COMPETITIVE LANDSCAPE

14.1 Market Structure

14.2 Key Players

14.3 Profiles of Key Players

14.3.1 BAE Batterien GmbH

14.3.1.1 Company Overview

14.3.1.2 Product Portfolio

14.3.2 BYD Co. Ltd.

14.3.2.1 Company Overview

14.3.2.2 Product Portfolio

14.3.2.3 Financials

14.3.2.4 SWOT Analysis

14.3.3 Contemporary Amperex Technology Co. Ltd.

14.3.3.1 Company Overview

14.3.3.2 Product Portfolio

14.3.3.3 Financials

14.3.4 EnerSys

14.3.4.1 Company Overview

14.3.4.2 Product Portfolio

14.3.4.3 Financials

14.3.4.4 SWOT Analysis

14.3.5 Exide Industries Limited

14.3.5.1 Company Overview

14.3.5.2 Product Portfolio

14.3.6 LG Electronics Inc. (LG Corporation)

14.3.6.1 Company Overview

14.3.6.2 Product Portfolio

14.3.6.3 Financials

14.3.6.4 SWOT Analysis

14.3.7 Loom Solar Pvt. Ltd.

14.3.7.1 Company Overview

14.3.7.2 Product Portfolio

14.3.8 Luminous Power Technologies Private Limited (Schneider Electric SE)

14.3.8.1 Company Overview

14.3.8.2 Product Portfolio

14.3.9 Okaya Power Pvt. Ltd.

- 14.3.9.1 Company Overview
- 14.3.9.2 Product Portfolio
- 14.3.10 Panasonic Corporation
 - 14.3.10.1 Company Overview
 - 14.3.10.2 Product Portfolio
 - 14.3.10.3 Financials
 - 14.3.10.4 SWOT Analysis
- 14.3.11 SAFT (TotalEnergies SE)
 - 14.3.11.1 Company Overview
 - 14.3.11.2 Product Portfolio
- 14.3.12 Samsung SDI Co. Ltd
 - 14.3.12.1 Company Overview
 - 14.3.12.2 Product Portfolio
- 14.3.13 Tesla Inc.
 - 14.3.13.1 Company Overview
 - 14.3.13.2 Product Portfolio
 - 14.3.13.3 Financials
 - 14.3.13.4 SWOT Analysis

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