

Printed Batteries Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027

<https://marketpublishers.com/r/PF0BD3108680EN.html>

Date: August 2022

Pages: 145

Price: US\$ 2,499.00 (Single User License)

ID: PF0BD3108680EN

Abstracts

The global printed batteries market size reached US\$ 132.3 Million in 2021. Looking forward, IMARC Group expects the market to reach US\$ 1,338.7 Million by 2027, exhibiting a growth rate (CAGR) of 46.51% during 2022-2027. Keeping in mind the uncertainties of COVID-19, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic. These insights are included in the report as a major market contributor.

Printed electronics is an umbrella term used for electronic devices created by printing on a variety of substrates. Printed batteries are one of the critical parts of printed electronics and use various active materials from solution-based inks. These inks are deposited under a substrate using suitable printing techniques, such as stencil, screen, dispenser and spray printing, and dip or blade coating. Nowadays, a wide variety of printed batteries are available in the market, such as disposable and rechargeable batteries. Some of the commonly used anode and cathode materials utilized in printed batteries include Lithium titanate (LTO) and lithium iron phosphate (LFP).

Printed batteries serve as an excellent alternative to conventional batteries due to their cost-effectiveness, compact structure, flexibility and portability. On account of these properties, they are used in several applications, such as radio-frequency sensing, cosmetic and medicinal patches, greeting cards sensor, data logging systems, interactive packaging and other consumer electronics products. The associated advantages, along with their increasing and diversified applications, represent the primary factors driving the market growth. Besides this, printed batteries are sustainable and environment-friendly, which can dramatically reduce material waste and enable faster production due to the less complicated fabrication procedures. With the

advancements in the Internet of Things (IoT) and wireless sensor technologies, there has been rapid adoption of these batteries, which is acting as another major growth-inducing factor. Moreover, the leading electronics companies are developing printed cells using 3D printing technologies that are compatible with smart devices and exhibit minimal volumetric expansion, high rate capability, stability and security. This is expected to drive the market in the coming years.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global printed batteries market report, along with forecasts at the global, regional and country level from 2022-2027. Our report has categorized the market based on voltage range, product type and application.

Breakup by Voltage Range:

Below 1.5 V

Between 1.5 V to 3 V

Above 3V

Breakup by Product Type:

Rechargeable

Non-Rechargeable

Breakup by Application:

Consumer Electronics

Energy Harvesting

Medical Devices

Smart Packaging

Smart Cards

Wearable Technology

Others

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 with some of the key players being Blue Spark Technologies Inc., BrightVolt Solid State Batteries, Cymbet Corporation, Enfucell Oy, FLEXEL LLC, Imprint Energy Inc., NEC Corporation, Planar Energy Devices Inc., Samsung SDI Co. Ltd. and Xymox Technologies Inc.

Key Questions Answered in This Report:

How has the global printed batteries market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global printed batteries market?

What are the key regional markets?

What is the breakup of the market based on the voltage range?

What is the breakup of the market based on the product type?

What is the breakup of the market based on the application?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global printed batteries market and who are the key

players?

What is the degree of competition in the industry?

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 PRINTED BATTERIES MARKET

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

6 MARKET BREAKUP BY VOLTAGE RANGE

- 6.1 Below 1.5 V
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Between 1.5 V to 3 V
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3 Above 3V

- 6.3.1 Market Trends
- 6.3.2 Market Forecast

7 MARKET BREAKUP BY PRODUCT TYPE

- 7.1 Rechargeable
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2 Non-Rechargeable
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast

8 MARKET BREAKUP BY APPLICATION

- 8.1 Consumer Electronics
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
- 8.2 Energy Harvesting
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast
- 8.3 Medical Devices
 - 8.3.1 Market Trends
 - 8.3.2 Market Forecast
- 8.4 Smart Packaging
 - 8.4.1 Market Trends
 - 8.4.2 Market Forecast
- 8.5 Smart Cards
 - 8.5.1 Market Trends
 - 8.5.2 Market Forecast
- 8.6 Wearable Technology
 - 8.6.1 Market Trends
 - 8.6.2 Market Forecast
- 8.7 Others
 - 8.7.1 Market Trends
 - 8.7.2 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 Blue Spark Technologies Inc.
 - 14.3.1.1 Company Overview
 - 14.3.1.2 Product Portfolio
 - 14.3.2 BrightVolt Solid State Batteries
 - 14.3.2.1 Company Overview
 - 14.3.2.2 Product Portfolio
 - 14.3.3 Cymbet Corporation
 - 14.3.3.1 Company Overview
 - 14.3.3.2 Product Portfolio
 - 14.3.4 Enfucell Oy
 - 14.3.4.1 Company Overview
 - 14.3.4.2 Product Portfolio
 - 14.3.5 FLEXEL LLC
 - 14.3.5.1 Company Overview
 - 14.3.5.2 Product Portfolio
 - 14.3.6 Imprint Energy Inc.
 - 14.3.6.1 Company Overview
 - 14.3.6.2 Product Portfolio
 - 14.3.7 NEC Corporation
 - 14.3.7.1 Company Overview
 - 14.3.7.2 Product Portfolio
 - 14.3.7.3 Financials
 - 14.3.7.4 SWOT Analysis
 - 14.3.8 Planar Energy Devices Inc.
 - 14.3.8.1 Company Overview
 - 14.3.8.2 Product Portfolio

- 14.3.9 Samsung SDI Co. Ltd.
 - 14.3.9.1 Company Overview
 - 14.3.9.2 Product Portfolio
 - 14.3.9.3 Financials
 - 14.3.9.4 SWOT Analysis
- 14.3.10 Xymox Technologies Inc.
 - 14.3.10.1 Company Overview
 - 14.3.10.2 Product Portfolio

List Of Tables

LIST OF TABLES

Table 1: Global: Printed Batteries Market: Key Industry Highlights, 2021 and 2027

Table 2: Global: Printed Batteries Market Forecast: Breakup by Voltage Range (in Million US\$), 2022-2027

Table 3: Global: Printed Batteries Market Forecast: Breakup by Product Type (in Million US\$), 2022-2027

Table 4: Global: Printed Batteries Market Forecast: Breakup by Application (in Million US\$), 2022-2027

Table 5: Global: Printed Batteries Market Forecast: Breakup by Region (in Million US\$), 2022-2027

Table 6: Global: Printed Batteries Market: Competitive Structure

Table 7: Global: Printed Batteries Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Printed Batteries Market: Major Drivers and Challenges

Figure 2: Global: Printed Batteries Market: Sales Value (in Million US\$), 2016-2021

Figure 3: Global: Printed Batteries Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 4: Global: Printed Batteries Market: Breakup by Voltage Range (in %), 2021

Figure 5: Global: Printed Batteries Market: Breakup by Product Type (in %), 2021

Figure 6: Global: Printed Batteries Market: Breakup by Application (in %), 2021

Figure 7: Global: Printed Batteries Market: Breakup by Region (in %), 2021

Figure 8: Global: Printed Batteries (Below 1.5 V) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 9: Global: Printed Batteries (Below 1.5 V) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 10: Global: Printed Batteries (Between 1.5 V to 3 V) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 11: Global: Printed Batteries (Between 1.5 V to 3 V) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 12: Global: Printed Batteries (Above 3V) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 13: Global: Printed Batteries (Above 3V) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 14: Global: Printed Batteries (Rechargeable) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 15: Global: Printed Batteries (Rechargeable) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 16: Global: Printed Batteries (Non-Rechargeable) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 17: Global: Printed Batteries (Non-Rechargeable) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 18: Global: Printed Batteries (Consumer Electronics) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 19: Global: Printed Batteries (Consumer Electronics) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 20: Global: Printed Batteries (Energy Harvesting) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 21: Global: Printed Batteries (Energy Harvesting) Market Forecast: Sales Value

(in Million US\$), 2022-2027

Figure 22: Global: Printed Batteries (Medical Devices) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 23: Global: Printed Batteries (Medical Devices) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 24: Global: Printed Batteries (Smart Packaging) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 25: Global: Printed Batteries (Smart Packaging) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 26: Global: Printed Batteries (Smart Cards) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 27: Global: Printed Batteries (Smart Cards) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 28: Global: Printed Batteries (Wearable Technology) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 29: Global: Printed Batteries (Wearable Technology) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 30: Global: Printed Batteries (Other Applications) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 31: Global: Printed Batteries (Other Applications) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 32: North America: Printed Batteries Market: Sales Value (in Million US\$), 2016 & 2021

Figure 33: North America: Printed Batteries Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 34: United States: Printed Batteries Market: Sales Value (in Million US\$), 2016 & 2021

Figure 35: United States: Printed Batteries Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 36: Canada: Printed Batteries Market: Sales Value (in Million US\$), 2016 & 2021

Figure 37: Canada: Printed Batteries Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 38: Asia Pacific: Printed Batteries Market: Sales Value (in Million US\$), 2016 & 2021

Figure 39: Asia Pacific: Printed Batteries Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 40: China: Printed Batteries Market: Sales Value (in Million US\$), 2016 & 2021

Figure 41: China: Printed Batteries Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 42: Japan: Printed Batteries Market: Sales Value (in Million US\$), 2016 & 2021

Figure 43: Japan: Printed Batteries Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 44: India: Printed Batteries Market: Sales Value (in Million US\$), 2016 & 2021

Figure 45: India: Printed Batteries Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 46: South Korea: Printed Batteries Market: Sales Value (in Million US\$), 2016 & 2021

Figure 47: South Korea: Printed Batteries Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 48: Australia: Printed Batteries Market: Sales Value (in Million US\$), 2016 & 2021

Figure 49: Australia: Printed Batteries Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 50: Indonesia: Printed Batteries Market: Sales Value (in Million US\$), 2016 & 2021

Figure 51: Indonesia: Printed Batteries Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 52: Others: Printed Batteries Market: Sales Value (in Million US\$), 2016 & 2021

Figure 53: Others: Printed Batteries Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 54: Europe: Printed Batteries Market: Sales Value (in Million US\$), 2016 & 2021

Figure 55: Europe: Printed Batteries Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 56: Germany: Printed Batteries Market: Sales Value (in Million US\$), 2016 & 2021

Figure 57: Germany: Printed Batteries Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 58: France: Printed Batteries Market: Sales Value (in Million US\$), 2016 & 2021

Figure 59: France: Printed Batteries Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 60: United Kingdom: Printed Batteries Market: Sales Value (in Million US\$), 2016 & 2021

Figure 61: United Kingdom: Printed Batteries Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 62: Italy: Printed Batteries Market: Sales Value (in Million US\$), 2016 & 2021

Figure 63: Italy: Printed Batteries Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 64: Spain: Printed Batteries Market: Sales Value (in Million US\$), 2016 & 2021

Figure 65: Spain: Printed Batteries Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 66: Russia: Printed Batteries Market: Sales Value (in Million US\$), 2016 & 2021

Figure 67: Russia: Printed Batteries Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 68: Others: Printed Batteries Market: Sales Value (in Million US\$), 2016 & 2021

Figure 69: Others: Printed Batteries Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 70: Latin America: Printed Batteries Market: Sales Value (in Million US\$), 2016 & 2021

Figure 71: Latin America: Printed Batteries Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 72: Brazil: Printed Batteries Market: Sales Value (in Million US\$), 2016 & 2021

Figure 73: Brazil: Printed Batteries Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 74: Mexico: Printed Batteries Market: Sales Value (in Million US\$), 2016 & 2021

Figure 75: Mexico: Printed Batteries Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 76: Others: Printed Batteries Market: Sales Value (in Million US\$), 2016 & 2021

Figure 77: Others: Printed Batteries Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 78: Middle East and Africa: Printed Batteries Market: Sales Value (in Million US\$), 2016 & 2021

Figure 79: Middle East and Africa: Printed Batteries Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 80: Global: Printed Batteries Industry: SWOT Analysis

Figure 81: Global: Printed Batteries Industry: Value Chain Analysis

Figure 82: Global: Printed Batteries Industry: Porter's Five Forces Analysis

I would like to order

Product name: Printed Batteries Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027

Product link: <https://marketpublishers.com/r/PF0BD3108680EN.html>

Price: US\$ 2,499.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/PF0BD3108680EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

