

Global Quantum Batteries Market

<https://marketpublishers.com/r/G3BEA4BEF168EN.html>

Date: August 2025

Pages: 68

Price: US\$ 2,950.00 (Single User License)

ID: G3BEA4BEF168EN

Abstracts

Report Scope

The global quantum batteries market report is segmented by technology type and application. In this report, we have covered market analysis for the U.S., Canada, China, Japan, Germany, France and the U.K., where the opportunity for quantum batteries is gaining momentum. The regional analysis of quantum batteries covers the markets in North America, Europe, Asia-Pacific and the Rest of the World (including South America and the Middle East and Africa).

The study also covers overviews of leading companies and their financial information, product types and key developments. It includes patent analysis, emerging technologies and a competitive landscape.

The report is prepared in an easy-to-understand format. Tables and figures illustrate historical, current and future market scenarios. The year 2024 serves as the base year and 2025 is the estimated year. Market values are forecast for five years until 2030. All market values are in the dollar (\$) million.

Report Includes

An overview of the global market for quantum batteries

In-depth analysis of global market trends, featuring historical revenue data for 2024, estimated figures for 2025 and forecasts for 2028, 2029, including projections of CAGRs through 2030

Evaluation of the current market size and revenue growth prospects specific to the quantum batteries industry, accompanied by a market share analysis by

technology type, application and region

Coverage of evolving technologies, the current and future market potential, R&D activities, growth strategies, regulatory framework and reimbursement scenarios, as well as ESG trends of the market

Identification of companies best positioned to meet this demand due to their proprietary technologies, M&As, joint ventures and other strategic alliances

Descriptive profiles of the leading global companies

Contents

CHAPTER 1 EXECUTIVE SUMMARY

Market Outlook
Scope of Report
Market Summary
Market Dynamics and Growth Factors
Future Trends and Developments
Segmental Analysis
Regional Insights and Emerging Markets
Conclusion

CHAPTER 2 MARKET OVERVIEW

Quantum Batteries Overview
Porter's Five Forces Analysis
Bargaining Power of Buyers
Bargaining Power of Suppliers
Potential for New Entrants to the Market
Competition in the Industry
Threat of Substitutes
Patent Analysis
Key Findings
Macroeconomic Factors
The Russia-Ukraine War
Impact of the U.S.-China Tariff Announcements
Regulations and Policies in the Quantum Industry
The European Union
The U.S.
China
India
Key Use Cases
Use Case 1
Use Case 2
Use Case 3

CHAPTER 3 MARKET DYNAMICS

Market Dynamics

Market Drivers

Early Adoption of Quantum Computers

Increasing Demand for Solar Energy Facilitating Deployment

Rising Global Sales of EVs

Market Challenges/Restrains

Technological Hurdles in Implementation

Quantum Skills Shortage

Market Opportunities

Implementation of Quantum Computers in Self-Driving Technology

Increasing Adoption of Quantum Technology in the Healthcare Sector

CHAPTER 4 EMERGING TECHNOLOGIES AND DEVELOPMENTS

Overview

Key Emerging Technologies for Quantum Batteries

Artificial Intelligence (AI)

Machine Learning (ML)

Nanotechnology

CHAPTER 5 MARKET SEGMENTATION ANALYSIS

Segmentation Breakdown

Quantum Batteries Market by Technology Type

Key Takeaways

Quantum Dot Batteries

Quantum Polymer Batteries

Others

Quantum Batteries Market by Application

Key Takeaways

Quantum Computers

Electric Vehicles (EVs)

Renewable Energy Storage

Others

Geographic Breakdown

Market Breakdown by Region

Key Takeaways

North America

Europe

Asia-Pacific
Rest of the World (RoW)

CHAPTER 6 COMPETITIVE INTELLIGENCE

Key Companies in the Quantum Batteries Market

Nanoco Group

Nanosys (Shoei Chemical Inc.)

NNCrystal US Corp.

UbiQD Inc.

Quantum Materials Corp.

Strategy Analysis of Key Companies

Key Developments

CHAPTER 7 APPENDIX

Methodology

Research Steps

References

Abbreviations

COMPANY PROFILES

ALPHABET INC. (GOOGLE INC.)

AVANTAMA AG

CD BIOPARTICLES

NANOCO GROUP PLC

NNCRYSTAL US CORP.

QUANTUM INSTRUMENTS

QUANTUM MATERIALS CORP.

QUSTOMDOT BV

SHOEI ELECTRONIC MATERIALS INC.

UBIQD

List Of Tables

LIST OF TABLES

Summary Table : Global Market for Quantum Batteries, by Region, Through 2030

Table 1 : Key Patents Filed for Quantum Batteries, 2024

Table 2 : Global Market for Quantum Batteries, by Technology Type, Through 2030

Table 3 : Global Market for Quantum Dot Batteries in Quantum Batteries, by Region, Through 2030

Table 4 : Global Market for Quantum Polymer Batteries in Quantum Batteries, by Region, Through 2030

Table 5 : Global Market for Other Quantum Batteries, by Region, Through 2030

Table 6 : Global Market for Quantum Batteries, by Application, Through 2030

Table 7 : Global Market for Quantum Computers in Quantum Batteries, by Region, Through 2030

Table 8 : Global Market for Electric Vehicles in Quantum Batteries, by Region, Through 2030

Table 9 : Global Market for Renewable Energy Storage for Quantum Batteries, by Region, Through 2030

Table 10 : Global Market for Other Applications for Quantum Batteries, by Region, Through 2030

Table 11 : Global Market for Quantum Batteries, by Region, Through 2030

Table 12 : North American Market for Quantum Batteries, by Country, Through 2030

Table 13 : North American Market for Quantum Batteries, by Technology Type, Through 2030

Table 14 : North American Market for Quantum Batteries, by Application, Through 2030

Table 15 : European Market for Quantum Batteries, by Country, Through 2030

Table 16 : European Market for Quantum Batteries, by Technology Type, Through 2030

Table 17 : European Market for Quantum Batteries, by Application, Through 2030

Table 18 : Asia-Pacific Market for Quantum Batteries, by Country, Through 2030

Table 19 : Asia-Pacific Market for Quantum Batteries, by Technology Type, Through 2030

Table 20 : Asia-Pacific Market for Quantum Batteries, by Application, Through 2030

Table 21 : RoW Market for Quantum Batteries, by Sub-Region, Through 2030

Table 22 : RoW Market for Quantum Batteries, by Technology Type, Through 2030

Table 23 : RoW Market for Quantum Batteries, by Application, Through 2030

Table 24 : Market Ranking of Key Companies in the Global Quantum Batteries Market, 2024

Table 25 : Key Developments in the Global Quantum Batteries Market, 2025

Table 26 : Abbreviations Used in This Report

Table 27 : Alphabet Inc. (Google Inc.): Company Snapshot

Table 28 : Alphabet Inc. (Google Inc.): Financial Performance, FY 2023 and 2024

Table 29 : Alphabet Inc. (Google Inc.): Product Portfolio

Table 30 : Avantama AG: Company Snapshot

Table 31 : Avantama AG: Product Portfolio

Table 32 : CD Bioparticles: Company Snapshot

Table 33 : CD Bioparticles: Product Portfolio

Table 34 : Nanoco Group PLC: Company Snapshot

Table 35 : Nanoco Group PLC: Financial Performance, FY 2023 and 2024

Table 36 : Nanoco Group PLC: Product Portfolio

Table 37 : Nanoco Group PLC: News/Key Developments, 2025

Table 38 : NNCrystal US Corp.: Company Snapshot

Table 39 : NNCrystal US Corp.: Product Portfolio

Table 40 : Quantum Instruments: Company Snapshot

Table 41 : Quantum Instruments: Product Portfolio

Table 42 : Quantum Materials Corp.: Company Snapshot

Table 43 : Quantum Materials Corp.: Product Portfolio

Table 44 : QustomDot BV: Company Snapshot

Table 45 : QustomDot BV: Product Portfolio

Table 46 : Shoei Electronic Materials Inc.: Company Snapshot

Table 47 : Shoei Electronic Materials Inc.: Product Portfolio

Table 48 : UbiQD: Company Snapshot

Table 49 : UbiQD: Product Portfolio

Table 50 : UbiQD: News/Key Developments, 2025

List Of Figures

LIST OF FIGURES

Summary Figure : Global Market Shares for Quantum Batteries, by Region, 2024

Figure 1 : Porter's Five Forces Model for the Quantum Batteries Market

Figure 2 : Global Quantum Battery Published Patents, 2022–2024

Figure 3 : Market Dynamics of Quantum Batteries

Figure 4 : Capacity Addition of Renewable Energy in the Global Market, 2023–2027

Figure 5 : Global Electric Car Sales, 2021–2024

Figure 6 : Global Market Shares for Quantum Batteries, by Technology Type, 2024

Figure 7 : Global Market Shares for Quantum Dot Batteries in Quantum Batteries, by Region, 2024

Figure 8 : Global Market Shares for Quantum Polymer Batteries in Quantum Batteries, by Region, 2024

Figure 9 : Global Market Shares for Other Quantum Batteries, by Region, 2024

Figure 10 : Global Market Shares for Quantum Batteries, by Application, 2024

Figure 11 : Global Market Shares of Quantum Computers in Quantum Batteries, by Region, 2024

Figure 12 : Global Market Shares for Electric Vehicles in Quantum Batteries, by Region, 2024

Figure 13 : Global Market Shares for Renewable Energy Storage for Quantum Batteries, by Region, 2024

Figure 14 : Global Market Shares for Others Applications for Quantum Batteries, by Region, 2024

Figure 15 : Global Market Shares for Quantum Batteries, by Region, 2024

Figure 16 : North American Market Shares for Quantum Batteries, by Country, 2024

Figure 17 : North American Market Shares of Quantum Batteries, by Technology Type, 2024

Figure 18 : North American Market Shares of Quantum Batteries, by Application, 2024

Figure 19 : European Market Shares of Quantum Batteries, by Country, 2024

Figure 20 : European Market Shares of Quantum Batteries, by Technology Type, 2024

Figure 21 : European Market Shares of Quantum Batteries, by Application, 2024

Figure 22 : Asia-Pacific Market Shares of Quantum Batteries, by Country, 2024

Figure 23 : Asia-Pacific Market Shares of Quantum Batteries, by Technology Type, 2024

Figure 24 : Asia-Pacific Market Shares for Quantum Batteries, by Application, 2024

Figure 25 : RoW Market Shares for Quantum Batteries, by Sub-Region, 2024

Figure 26 : RoW Market Shares for Quantum Batteries, by Technology Type, 2024

Figure 27 : RoW Market Shares for Quantum Batteries, by Application, 2024

Figure 28 : Alphabet Inc. (Google Inc.): Revenue Shares, by Business Unit, FY 2024

Figure 29 : Alphabet Inc. (Google Inc.): Revenue Shares, by Region, FY 2024

Figure 30 : Nanoco Group PLC: Revenue Shares, by Business Unit, FY 2024

Figure 31 : Nanoco Group PLC: Revenue Shares, by Region, FY 2024

I would like to order

Product name: Global Quantum Batteries Market

Product link: <https://marketpublishers.com/r/G3BEA4BEF168EN.html>

Price: US\$ 2,950.00 (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/G3BEA4BEF168EN.html>