

Global Flexible Printed Circuit Boards (FPCs) for Electric Vehicles Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Flexible Printed Circuit Boards (FPCs) for Electric Vehicles market size was valued at US\$ 2913 million in 2025 and is forecast to a readjusted size of US\$ 5052 million by 2032 with a CAGR of 8.1% during review period.

Flexible Printed Circuit Boards (FPCs) for Electric Vehicles are polyimide- or PET-based flexible circuit boards used in EV battery systems, power electronics and in-vehicle electronics. They replace traditional wiring harnesses and some rigid PCBs in high-density, space-constrained, vibration-intensive environments such as battery modules, BMS, inverters, charging systems, sensors, lighting and infotainment. They offer light weight, high reliability, design flexibility and simplified assembly, and must meet automotive-grade standards (HV isolation, heat, vibration, humidity, lifetime). In 2025, global Flexible Printed Circuit Boards (FPCs) for Electric Vehicles production reached approximately 12954.7 K Sqm. Global production capacity in 2025 is approximately 17000 K Sqm. The main raw materials include PI film (Polyimide Film, represented by manufacturers: DuPont, Kaneka, UBE); electrolytic copper foil/rolled copper foil (ED/RA Copper Foil, represented by manufacturers: JX, Furukawa, Fukuda, Jiayuan, Nord); and coverlay/adhesive materials. Downstream applications and customers include: Tier-1 automotive electronics manufacturers (Bosch, Continental, ZF, Denso); and OEM vehicle manufacturers (Volkswagen Group, Toyota, Tesla, and BYD), etc.

Flexible Printed Circuit Boards (FPCs) for Electric Vehicles are rapidly shifting from a consumer-electronics derivative to a strategic interconnect platform underpinning EV energy systems, sensing, and cabin electronics. Structural demand is driven by rising BEV penetration, electronic content per vehicle, wiring-harness weight reduction, higher

BMS sensing points, curved interior displays, and expanding ADAS sensor density. As a result, FPC adoption is accelerating in battery-module/BMS measurement lines, power-electronics control units, automotive camera and radar modules, intelligent lighting, infotainment and large-format displays.

This report is a detailed and comprehensive analysis for global Flexible Printed Circuit Boards (FPCs) for Electric Vehicles market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Flexible Printed Circuit Boards (FPCs) for Electric Vehicles market size and forecasts, in consumption value (\$ Million), sales quantity (K Sqm), and average selling prices (US\$/Sq m), 2021-2032

Global Flexible Printed Circuit Boards (FPCs) for Electric Vehicles market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Sqm), and average selling prices (US\$/Sq m), 2021-2032

Global Flexible Printed Circuit Boards (FPCs) for Electric Vehicles market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Sqm), and average selling prices (US\$/Sq m), 2021-2032

Global Flexible Printed Circuit Boards (FPCs) for Electric Vehicles market shares of main players, shipments in revenue (\$ Million), sales quantity (K Sqm), and ASP (US\$/Sq m), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Flexible Printed Circuit Boards (FPCs) for Electric Vehicles
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Flexible Printed Circuit Boards (FPCs) for Electric Vehicles market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Mektec Corporation, Sumitomo Electric Printed Circuits, Fujikura, Suzhou Dongshan Precision, AT&S, Avary, Kinwong Electronic, Shennan Circuits, ZDT, Flexium, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Flexible Printed Circuit Boards (FPCs) for Electric Vehicles market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Single-sided Circuit

Double-sided Circuit

Multi-layer Circuit

Rigid-Flex Circuit

Market segment by Material System

Polyimide-based FPC

High-temperature PI FPC

High-speed/High-frequency FPC

Market segment by Electrical Performance

Standard Signal FPC

High-speed Signal FPC

High-current FPC

Market segment by Application System

ADAS

Intelligent Cockpit

Powertrain

Body Electronic Systems

Others

Market segment by Application

Passenger

Commercial

Major players covered

Mektec Corporation

Sumitomo Electric Printed Circuits

Fujikura

Suzhou Dongshan Precision

AT&S

Avary

Kinwong Electronic

Shennan Circuits

ZDT

Flexium

Victory Giant Technology

SI FLEX

Bhflex

Interflex

ICHIA

Career Technology

AKM

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Flexible Printed Circuit Boards (FPCs) for Electric Vehicles product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Flexible Printed Circuit Boards (FPCs) for

Electric Vehicles, with price, sales quantity, revenue, and global market share of Flexible Printed Circuit Boards (FPCs) for Electric Vehicles from 2021 to 2026.

Chapter 3, the Flexible Printed Circuit Boards (FPCs) for Electric Vehicles competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Flexible Printed Circuit Boards (FPCs) for Electric Vehicles breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Flexible Printed Circuit Boards (FPCs) for Electric Vehicles market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Flexible Printed Circuit Boards (FPCs) for Electric Vehicles.

Chapter 14 and 15, to describe Flexible Printed Circuit Boards (FPCs) for Electric Vehicles sales channel, distributors, customers, research findings and conclusion.

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