+357 96 030922
info@marketpublishers.com

Flyback Converter Market - Forecast from 2026 to 2031

https://marketpublishers.com/r/FE72838FE17CEN.html
Date: January 2026
Pages: 140
Price: US$ 3,950.00 (Single User License)
ID: FE72838FE17CEN

Abstracts

Flyback Converter Market is expected to grow at a 4.96% CAGR, achieving USD 4.819 billion in 2031 from USD 3.605 billion in 2025.

Flyback converters—isolated buck-boost topologies that store energy in the transformer magnetic field during switch-on and release it to the output during switch-off—remain the default choice for low-to-medium power (1–150 W) AC/DC and DC/DC applications requiring galvanic isolation, multiple outputs, and wide input voltage range. Modern implementations span conventional hard-switched PWM, quasi-resonant (QR), active-clamp, and self-oscillating RCC designs, with integrated high-voltage MOSFET controllers (Power Integrations InnoSwitch™, Infineon CoolSET™, ST VIPer™, ON Semi NCP/FSQ) dominating merchant silicon.

Consumer electronics and computing continue to drive the largest volume segment. Smartphones, tablets, laptops, gaming consoles, SSDs, and fast-charging adapters (20–100 W USB-PD/EPP) overwhelmingly specify QR or active-clamp flyback for highest efficiency (>93 % peak) and smallest form factor. The shift to GaN primary-side switches (Navitas, Power Integrations InnoSwitch4-GaN, TI UCC28780-GaN) has pushed power density beyond 30 W/in? while meeting CoC Tier 2 and DoE Level VI no-load requirements.

Telecommunication infrastructure represents the second major growth pillar. 4G/5G macro and small-cell base stations, remote radio heads, optical line terminals, and enterprise routers require numerous isolated rails (48 V ? 12 V/5 V/3.3 V) at 30–150 W. Flyback’s simplicity, low component count, and excellent cross-regulation on auxiliary outputs make it the preferred topology versus forward or LLC in cost-sensitive distributed power architectures.

+357 96 030922
info@marketpublishers.com

Asia-Pacific has solidified its position as both the largest consumer and manufacturing hub. China, South Korea, Taiwan, and India together account for >70 % of global production volume, driven by vertically integrated ODM/EMS giants (Delta, Lite-On, AcBel, FSP, Hon Hai/Foxconn) and aggressive domestic telecom build-out. Government production-linked incentive schemes and institutional reforms targeting high-value power-supply manufacturing continue to reinforce regional dominance.

Technology roadmaps are converging on four performance frontiers:

1. Ultra-high efficiency—GaN + QR/active-clamp + synchronous rectification achieving 94–96 % peak and 85 % of the high-voltage controller market. Chinese fabless players (Silergy, Southchip, Innoscience) are rapidly gaining share in 30–65 W GaN-enabled designs through aggressive pricing and local supply-chain integration.

Supply constraints are minimal outside brief GaN FET tightness; the ecosystem benefits from mature silicon foundries and magnetics suppliers. The primary bottleneck remains design expertise—achieving EMI compliance (EN55032 Class B at 6 dB margin) and meeting global safety standards (62368-1, 61558-2-16) with minimal external components continues to favor established controller platforms.

For OEM power engineers and purchasing teams, total-cost-of-ownership models now routinely justify 10–20 % premium pricing for GaN-based flyback versus Si designs when factoring efficiency gains, reduced thermal management, and smaller magnetics. Reference designs that combine controller, GaN FET, SR MOSFET, and planar transformer into validated 30–100 W modules have become the fastest path to production.

Overall, flyback converters occupy an exceptionally strong position: irreplaceable topology for isolated low-to-medium power, secular tailwinds from fast-charging, 5G rollout, and consumer electronics miniaturization, and clear efficiency/density roadmaps that continuously widen the performance gap versus older RCC and forward converters. Companies controlling the high-voltage IC + GaN ecosystem and offering complete, safety-certified reference designs are positioned for sustained double-digit growth and resilient margins in this foundational power-conversion category.

Key Benefits of this Report:

Insightful Analysis: Gain detailed market insights covering major as well as

+357 96 030922
info@marketpublishers.com

emerging geographical regions, focusing on customer segments, government policies and socio-economic factors, consumer preferences, industry verticals, and other sub-segments.

Competitive Landscape: Understand the strategic maneuvers employed by key players globally to understand possible market penetration with the correct strategy.

Market Drivers & Future Trends: Explore the dynamic factors and pivotal market trends and how they will shape future market developments.

Actionable Recommendations: Utilize the insights to exercise strategic decisions to uncover new business streams and revenues in a dynamic environment.

Caters to a Wide Audience: Beneficial and cost-effective for startups, research institutions, consultants, SMEs, and large enterprises.

What do businesses use our reports for?

Industry and Market Insights, Opportunity Assessment, Product Demand Forecasting, Market Entry Strategy, Geographical Expansion, Capital Investment Decisions, Regulatory Framework & Implications, New Product Development, Competitive Intelligence

Report Coverage:

Historical data from 2021 to 2025 & forecast data from 2026 to 2031

Growth Opportunities, Challenges, Supply Chain Outlook, Regulatory Framework, and Trend Analysis

Competitive Positioning, Strategies, and Market Share Analysis

Revenue Growth and Forecast Assessment of segments and regions including countries

Company Profiling (Strategies, Products, Financial Information, and Key Developments among others.

+357 96 030922
info@marketpublishers.com

Segmentation:

- By Type
  - PWM Control Type
  - Quasi-Resonant Type
  - Self-Exciting Ringing Choke Converter
- By Voltage
  - Low
  - Medium
  - High
- By End-User
  - Electrical & Electronics
  - Telecommunication
  - Manufacturing
  - Others
- By Geography
  - North America

USA

+357 96 030922
info@marketpublishers.com

Canada

Mexico

South America

Brazil

Argentina

Others

Europe

Germany

France

United Kingdom

Spain

+357 96 030922
info@marketpublishers.com

Others

Middle East and Africa

Saudi Arabia

UAE

Others

Asia Pacific

China

India

Japan

South Korea

Indonesia

+357 96 030922
info@marketpublishers.com

Thailand

Others

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

8. FLYBACK CONVERTER MARKET BY GEOGRAPHY

9. COMPETITIVE ENVIRONMENT AND ANALYSIS

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Flyback Converter Market - Forecast from 2026 to 2031

Product link: https://marketpublishers.com/r/FE72838FE17CEN.html

Price: US$ 3,950.00 (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/FE72838FE17CEN.html