

Global AC/DC Conversion Chip Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global AC/DC Conversion Chip market size is expected to reach \$ 7928 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032).

AC-DC converter ICs are power management integrated circuits used to convert AC mains or AC input power into regulated DC output power. They are commonly used in offline switch-mode power supplies, adapters, chargers, appliance auxiliary supplies, industrial power supplies, LED drivers, TV and monitor power supplies, server auxiliary supplies, telecom power systems, smart-home devices and IoT power modules. Typical product forms include primary-side regulated flyback controllers, secondary-side controllers, PWM controllers, quasi-resonant controllers, PFC controllers, LLC controllers, synchronous rectifier controllers, offline switcher ICs with integrated high-voltage MOSFETs, high-frequency AC-DC converter ICs with integrated GaN power stages, and digital power controllers.

From the perspective of the global supply landscape, the AC-DC converter IC market is led by U.S., European, and Japanese vendors in mid-to-high-end and high-reliability products, while mainland Chinese vendors are rapidly replacing imports in consumer electronics, fast charging, small appliances, lighting, and general-purpose offline power supplies. Power Integrations is a representative leader in highly integrated AC-DC offline switcher ICs. With products such as InnoSwitch, LinkSwitch, and TinySwitch, it holds a strong position in adapters, home appliances, industrial auxiliary power supplies, and consumer electronics power supplies. Vendors such as TI, Infineon, onsemi, ST, Renesas, ROHM, and Diodes cover multiple product routes, including PFC, flyback, LLC, PWM, synchronous rectification, GaN, and digital control, enabling them to serve a wide range of applications from low-power auxiliary supplies to server, telecom, and industrial SMPS systems.

From the perspective of domestic Chinese supply, Silan Microelectronics, Bright Power Semiconductor, Southchip Semiconductor, and Chipown Microelectronics form an important tier of local AC-DC power management IC suppliers. Silan's official website lists multiple non-isolated buck AC-DC constant-voltage control ICs, PWM/PFM controllers with integrated high-voltage MOSFETs, and synchronous rectifier controllers. Bright Power Semiconductor clearly divides its product lines into AC/DC power management ICs, non-isolated power supplies, isolated power supplies, LED driver ICs, and other categories. Southchip's product categories include AC-DC converters, USB Type-C and Power Delivery, PMICs, and charging management.

From a product roadmap perspective, the low-power market is mainly based on offline switcher ICs with integrated MOSFETs and non-isolated buck solutions, emphasizing low cost, low standby power consumption, and compact size. The mid-power fast-charging and adapter market is centered on QR flyback, active clamp flyback, synchronous rectification, and GaN control / integration, with a focus on efficiency, power density, and USB-C PD compatibility. Mid-to-high-power TV, PC, server, and telecom power supplies more often adopt PFC + LLC or digital-control combinations. Power Integrations' InnoSwitch integrates primary-side, secondary-side, and feedback functions into a single offline flyback IC, while Infineon has built a complete high-efficiency AC-DC portfolio around CoolSET, PFC, LLC, and digital SMPS controllers.

From the demand-structure perspective, the main demand comes from smartphone / laptop fast chargers, home-appliance auxiliary power supplies, TV / monitor power supplies, LED lighting, industrial power supplies, and server and telecom power systems. Low-end general-purpose AC-DC chips face intense price competition, but energy-efficiency regulations, standby power requirements, high-power Type-C PD fast charging, GaN miniaturization, and server power-efficiency upgrades are increasing the value of high-end products. Renesas emphasizes that its AC/DC and isolated DC/DC PWM controllers are used for efficient isolated power supplies, while onsemi positions its AC-DC power conversion products as supporting high active-mode efficiency, low standby consumption, and power factor correction.

Future competition will develop along two main tracks. The first is the high-end, high-efficiency route, centered on GaN fast charging, PFC + LLC, digital power, server / telecom power supplies, and high-power-density adapters. Key competitive factors include topology control, power-stage integration, EMI performance, standby power consumption, and system reference-design capability. The second is the domestic substitution and cost-optimization route, centered on small appliances, lighting, general-

purpose adapters, smart homes, and industrial auxiliary power supplies. Key competitive factors include cost, reliability, supply stability, packaging, customer support, and the local ecosystem. Overall, AC-DC converter ICs are not a single standardized component market, but a compound power management IC sector composed of low-power offline switchers, mid-power fast-charging solutions, high-power PFC / LLC solutions, and digital power controllers.

This report studies the global AC/DC Conversion Chip production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for AC/DC Conversion Chip and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of AC/DC Conversion Chip that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global AC/DC Conversion Chip total production and demand, 2021-2032, (K Units)

Global AC/DC Conversion Chip total production value, 2021-2032, (USD Million)

Global AC/DC Conversion Chip production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global AC/DC Conversion Chip consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: AC/DC Conversion Chip domestic production, consumption, key domestic manufacturers and share

Global AC/DC Conversion Chip production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global AC/DC Conversion Chip production by Power Range, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global AC/DC Conversion Chip production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global AC/DC Conversion Chip market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Power Integrations, Inc., Texas Instruments Incorporated, Infineon Technologies AG, onsemi, STMicroelectronics N.V., Renesas Electronics Corporation, ROHM Co., Ltd., Diodes Incorporated, Silan Microelectronics

Co., Ltd., Bright Power Semiconductor, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World AC/DC Conversion Chip market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Power Range, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global AC/DC Conversion Chip Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AC/DC Conversion Chip Market, Segmentation by Power Range:

Ultra-low Power, 500W

Global AC/DC Conversion Chip Market, Segmentation by Topology:

- Isolated Flyback
- Non-isolated Buck
- Quasi-resonant Flyback
- Active Clamp Flyback
- Boost PFC
- LLC Resonant
- PSFB / Half-bridge / Full-bridge

Global AC/DC Conversion Chip Market, Segmentation by Control Mode:

- Voltage-mode Control ICs
- Current-mode Control ICs
- Quasi-resonant Control ICs
- Boundary Conduction Mode ICs
- Continuous Conduction Mode ICs
- Digital Control ICs

Global AC/DC Conversion Chip Market, Segmentation by Application:

- Chargers and Adapters
- Monitor Power Supplies
- LED Lighting Power Supplies

Industrial Power Supplies

Server and Telecom Power

Companies Profiled:

Power Integrations, Inc.

Texas Instruments Incorporated

Infineon Technologies AG

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STMicroelectronics N.V.

Renesas Electronics Corporation

ROHM Co., Ltd.

Diodes Incorporated

Silan Microelectronics Co., Ltd.

Bright Power Semiconductor

Southchip Semiconductor Technology Co., Ltd.

Chipown Microelectronics

Leadtrend Technology Corp.

Richtek Technology Corp.

Analog Devices, Inc.

Key Questions Answered:

1. How big is the global AC/DC Conversion Chip market?
2. What is the demand of the global AC/DC Conversion Chip market?
3. What is the year over year growth of the global AC/DC Conversion Chip market?
4. What is the production and production value of the global AC/DC Conversion Chip market?
5. Who are the key producers in the global AC/DC Conversion Chip market?
6. What are the growth factors driving the market demand?

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