

AC DC Power Adapters - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2026 - 2031)

Market Report | 2026-02-09 | 127 pages | Mordor Intelligence

AVAILABLE LICENSES:

- Single User License \$4750.00
- Team License (1-7 Users) \$5250.00
- Site License \$6500.00
- Corporate License \$8750.00

Report description:

AC DC Power Adapters Market Analysis

The AC DC power adapters market was valued at USD 44.92 billion in 2025 and estimated to grow from USD 53.76 billion in 2026 to reach USD 132.04 billion by 2031, at a CAGR of 19.68% during the forecast period (2026-2031). Standardization around USB-C Power Delivery, rapid GaN adoption, and regulatory efficiency mandates collectively drive this trajectory. Manufacturers benefit from higher watt-per-gram ratios that allow compact, multi-device charging designs. High-power segments above 100 W widen profit pools as enterprise hardware and EV infrastructure demand scalable solutions. Sustainability targets accelerate modular adapters and take-back programs, turning compliance costs into brand differentiation levers across every major region of the AC-DC power adapters market.

Global AC DC Power Adapters Market Trends and Insights

Growing Adoption of USB-C Power Delivery (PD) Standards

USB-C PD 3.1 now supports up to 240 W, enabling single-cable charging for high-performance laptops and industrial equipment. Mandatory USB-C rules in the EU, effective since December 2024, compel OEMs to unify ports, which widens aftermarket demand for standalone chargers. Safety frameworks, such as IEC 62368-1, evolve in parallel, keeping failure rates low even as wattage increases. Enterprises benefit from cable consolidation that reduces workspace clutter and lowers inventory costs. The trend permeates industrial controls, point-of-sale kiosks, and medical carts, entrenching the AC DC power adapters market in

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

cross-sector power-delivery ecosystems.

Proliferation of Consumer Electronics

Households now manage 7-10 charge-dependent devices, up from 3-4 a decade ago. Hybrid work environments require desktop hubs that allocate 100 W or more to laptops while sustaining tablets and wearables. Apple's transition to USB-C across the iPhone 15 and 16 families unlocked accessory refresh cycles that benefit every vendor in the AC DC power adapters market. AI-capable laptops increase steady-state power draw, making 140 W bricks a mainstream option instead of a niche one. Manufacturers respond by releasing GaN chargers that balance thermal load and portability, thereby extending product life and alleviating electronic waste concerns.

Stringent Global Safety and EMI/EMC Certification Costs

EN61204-3 and FCC Class B compliance demand exhaustive radiated and conducted emission tests up to 30 kW, absorbing as much as 25% of engineering budgets for smaller firms. Medical adapters must also satisfy IEC/EN60601-1 leakage and isolation clauses, adding USD 50,000 or more per product family. Component substitutions common during supply disruptions trigger full retest cycles, creating inventory risk. Larger brands internalize labs to shorten schedules, widening the resource gap in the AC-DC power adapters market.

Other drivers and restraints analyzed in the detailed report include:

Rapid Electrification of Automotive Accessories and Aftermarket EV Adapters
Rising Energy-Efficiency Regulations
Volatility in Raw-Material Prices

For complete list of drivers and restraints, kindly check the Table Of Contents.

Segment Analysis

The mobile devices and tablets segment generated the largest revenue in 2025, at 30.78%, driven by the ubiquity of smartphones and rising tablet penetration. Still, the EV charging-adapter category is forecast to register a 22.50% CAGR to 2031, the highest among all industries. This leap mirrors global charger-installation subsidies and automaker interoperability initiatives. Fleet depots adopt 800 V architectures that require robust DC-to-DC adapters with SiC rectifiers, creating premium price tiers within the AC DC power adapters market size. Consumers upgrading to AI-ready laptops also add revenue, yet growth stems more from higher wattage per unit than from additional PCs entering circulation.

Cross-pollination between automotive and consumer designs accelerates the deployment of USB-C PD in in-vehicle infotainment consoles. As range anxiety diminishes, drivers expect cabin devices, laptops, VR headsets, and refrigeration units to charge concurrently, elevating multi-port demand. Industrial automation remains a smaller slice, but round-the-clock robotics creates sticky after-sales revenue for high-reliability 24 V adapters. Vendors that align road-map validation cycles with automaker qualification timelines gain a durable share in the AC-DC power adapters market.

The 16-45 W class held 26.39% of 2025 revenue, supported by smartphone and tablet shipments. However, the 101-240 W bracket is projected to clock a 21.95% CAGR, propelled by workstation laptops, desktop replacement chargers, and portable gaming consoles. The 250% power-density gain from GaN switching elements compresses the footprint while dissipating heat effectively, allowing vendors to charge price premiums without incurring size penalties. As power budgets increase, inductor design and gate-drive optimization become key differentiation points in the AC-DC power adapter market.

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Below 15 W, wireless substitution and power-efficient SoCs slow revenue expansion. The 46-100 W segment remains core to mainstream laptop ecosystems but faces cannibalization from high-power bricks that simultaneously support phones, tablets, and laptops. Enterprise IT buyers tend to gravitate toward unified 240 W docks, which reduce desk clutter and spark multi-year refresh cycles. Wide-bandgap chips thus transition from a flagship novelty to a baseline requirement in the AC-DC power adapter market.

The AC DC Power Adapters Market Report is Segmented by End-User Industry (Consumer Personal Computers, Laptops, Mobile Devices, and More), Output Power Rating (?15W, 16-45W, 46-100W, and More), Port Type (Single-Port, and More), Form Factor (Wall Plug Fixed-Pin, Detachable Plug Interchangeable, and More), and Geography (North America, South America, Europe, and More). The Market Forecasts are Provided in Terms of Value (USD).

Geography Analysis

Asia-Pacific held a 44.80% revenue share in 2025 and is forecast to post a 22.35% CAGR through 2031. China's vertically integrated supply chain keeps component costs low, while Taiwan's foundries supply GaN epi-wafers that underpin global innovation. South Korea's smartphone OEMs and Japan's precision engineering firms round out a robust value chain that anchors leadership in the AC-DC power adapter market.

North America follows with strong enterprise uptake of 100 W-plus desktop chargers and aggressive EV infrastructure rollouts in California and northeastern states. DoE Level VI rules push early adoption of energy-efficient topologies that ripple through the procurement policies of Fortune 500 firms. The region thus serves as a proving ground for premium, high-margin designs inside the AC-DC power adapters market.

Europe combines regulatory heft with sustainability orientation. The common-charger directive accelerated the ubiquity of USB-C across the bloc and catalyzed aftermarket demand for PD-compliant chargers. Tier 2 CoC efficiency regulations stimulate wide-bandgap migration, while circular-economy legislation rewards modular adapters and take-back schemes. Eastern European contract manufacturers are gaining market share as cost-competitive alternatives to Asian sources, thereby diversifying risk across the global AC-DC power adapters market.

Emerging economies in the Middle East, Africa, and South America contribute smaller absolute revenue but deliver double-digit growth. Brazil and Argentina anchor South American expansion through consumer electronics imports and renewable energy integrations that rely on industrial-grade adapters. Gulf Cooperation Council infrastructure upgrades and Africa's mobile-first tech ecosystems require ruggedized chargers that withstand grid instability. Vendors tailoring products to local voltage norms and price sensitivities add incremental volume to the AC-DC power adapters market.

List of Companies Covered in this Report:

Delta Electronics, Inc. Lite-On Technology Corporation Belkin International, Inc. (a Foxconn subsidiary) Anker Innovations Technology Co., Ltd. Shenzhen Huntkey Electric Co., Ltd. Salcomp PLC Flex Ltd. Mean Well Enterprises Co., Ltd. Phihong Technology Co., Ltd. TDK-Lambda Corporation Chicony Power Technology Co., Ltd. FSP Group Guangzhou Shengyang Electronics Co., Ltd. Momax Technology (HK) Ltd. Alphatec, Inc. (Aukey) RAVPower (Shenzhen Sunvalley) Mophie LLC (ZAGG Inc.) Ugreen Group Ltd. PNY Technologies, Inc. Samsung Electronics Co., Ltd. (Power Adapter Division) Apple Inc. (Power Adapter Engineering Group) Xiaomi Inc. (Accessory Business Unit) Oppo Electronics Corp. (SuperVOOC Chargers)

Additional Benefits:

 The market estimate (ME) sheet in Excel format
3 months of analyst support

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Table of Contents:

1 INTRODUCTION

1.1 Study Assumptions and Market Definition

1.2 Scope of the Study

2 RESEARCH METHODOLOGY

3 EXECUTIVE SUMMARY

4 MARKET LANDSCAPE

4.1 Market Overview

4.2 Market Drivers

4.2.1 Growing adoption of USB-C Power Delivery (PD) standards

4.2.2 Proliferation of consumer electronics (smartphones, laptops, tablets)

4.2.3 Rapid electrification of automotive accessories and aftermarket EV adapters

4.2.4 Rising energy-efficiency regulations (DoE Level VI, EU CoC V5)

4.2.5 Integration of GaN and SiC semiconductors boosting watt-per-gram ratio

4.2.6 OEM interest in adapter modularity for circular-economy compliance

4.3 Market Restraints

4.3.1 Stringent global safety and EMI/EMC certification costs

4.3.2 Volatility in raw-material (copper, ferrite core) prices

4.3.3 Growing consumer shift toward wireless charging pads

4.3.4 OEM consolidation of adapters into device price

4.4 Industry Value Chain Analysis

4.5 Regulatory Landscape

4.6 Technological Outlook

4.7 Impact of Macroeconomic Factors on the Market

4.8 Porter's Five Forces Analysis

4.8.1 Bargaining Power of Suppliers

4.8.2 Bargaining Power of Buyers

4.8.3 Threat of New Entrants

4.8.4 Threat of Substitutes

4.8.5 Intensity of Competitive Rivalry

5 MARKET SIZE AND GROWTH FORECASTS (VALUE)

5.1 By End-user Industry

5.1.1 Consumer

5.1.1.1 Personal Computers

5.1.1.2 Laptops

5.1.1.3 Mobile Devices

5.1.1.4 Other Consumer

5.1.2 Automotive

5.1.2.1 EV Charging Adapters

5.1.2.2 In-vehicle Infotainment and Accessories

5.1.3 Industrial

5.2 By Output Power Rating

5.2.1 ? 15 W

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 5.2.2 16-45 W
- 5.2.3 46-100 W
- 5.2.4 101-240 W
- 5.3 By Port Type
 - 5.3.1 Single-Port
 - 5.3.2 Multi-Port (2-4 Ports)
 - 5.3.3 Ultra-Multi-Port (? 5 Ports / GaN Docks)
- 5.4 By Form Factor
 - 5.4.1 Wall Plug (Fixed-Pin)
 - 5.4.2 Detachable Plug (Interchangeable)
 - 5.4.3 Desktop (Brick)
 - 5.4.4 Embedded / Board-Mount
- 5.5 By Geography
 - 5.5.1 North America
 - 5.5.1.1 United States
 - 5.5.1.2 Canada
 - 5.5.1.3 Mexico
 - 5.5.2 South America
 - 5.5.2.1 Brazil
 - 5.5.2.2 Argentina
 - 5.5.2.3 Rest of South America
 - 5.5.3 Europe
 - 5.5.3.1 Germany
 - 5.5.3.2 United Kingdom
 - 5.5.3.3 France
 - 5.5.3.4 Russia
 - 5.5.3.5 Rest of Europe
 - 5.5.4 Asia-Pacific
 - 5.5.4.1 China
 - 5.5.4.2 Japan
 - 5.5.4.3 India
 - 5.5.4.4 South Korea
 - 5.5.4.5 South-East Asia
 - 5.5.4.6 Rest of Asia-Pacific
 - 5.5.5 Middle East and Africa
 - 5.5.5.1 Middle East
 - 5.5.5.1.1 Saudi Arabia
 - 5.5.5.1.2 United Arab Emirates
 - 5.5.5.1.3 Rest of Middle East
 - 5.5.5.2 Africa
 - 5.5.5.2.1 South Africa
 - 5.5.5.2.2 Egypt
 - 5.5.5.2.3 Rest of Africa

6 COMPETITIVE LANDSCAPE

- 6.1 Market Concentration
- 6.2 Strategic Moves

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

6.3 Market Share Analysis

6.4 Company Profiles (includes Global level Overview, Market level overview, Core Segments, Financials as available, Strategic Information, Market Rank/Share for key companies, Products and Services, and Recent Developments)

6.4.1 Delta Electronics, Inc.

6.4.2 Lite-On Technology Corporation

6.4.3 Belkin International, Inc. (a Foxconn subsidiary)

6.4.4 Anker Innovations Technology Co., Ltd.

6.4.5 Shenzhen Huntkey Electric Co., Ltd.

6.4.6 Salcomp PLC

6.4.7 Flex Ltd.

6.4.8 Mean Well Enterprises Co., Ltd.

6.4.9 Phihong Technology Co., Ltd.

6.4.10 TDK-Lambda Corporation

6.4.11 Chicony Power Technology Co., Ltd.

6.4.12 FSP Group

6.4.13 Guangzhou Shengyang Electronics Co., Ltd.

6.4.14 Momax Technology (HK) Ltd.

6.4.15 Alphatec, Inc. (Aukey)

6.4.16 RAVPower (Shenzhen Sunvalley)

6.4.17 Mophie LLC (ZAGG Inc.)

6.4.18 Ugreen Group Ltd.

6.4.19 PNY Technologies, Inc.

6.4.20 Samsung Electronics Co., Ltd. (Power Adapter Division)

6.4.21 Apple Inc. (Power Adapter Engineering Group)

6.4.22 Xiaomi Inc. (Accessory Business Unit)

6.4.23 Oppo Electronics Corp. (SuperVOOC Chargers)

7 MARKET OPPORTUNITIES AND FUTURE OUTLOOK

7.1 White-space and Unmet-need Assessment

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

AC DC Power Adapters - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2026 - 2031)

Market Report | 2026-02-09 | 127 pages | Mordor Intelligence

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single User License	\$4750.00
	Team License (1-7 Users)	\$5250.00
	Site License	\$6500.00
	Corporate License	\$8750.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-02-26"/>
		Signature	

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

