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GLOBAL SWITCHING POWER SUPPLY INDUSTRY 2019 REPORT

Strategies for A Changing Market

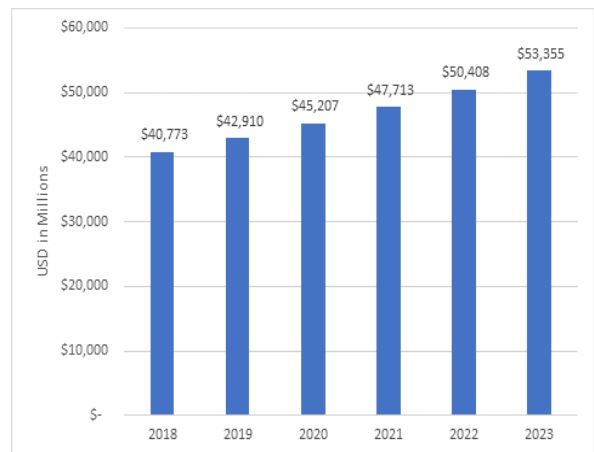
The new Global Switching Power Supply Industry 2019 Report provides comprehensive analysis of the power supply market that includes emerging applications of drones and smart homes that consist of intelligent personal assistants (IPA or smart speakers) and remote vacuum cleaners (RVC) and emerging growth market of battery chargers for electric vehicles. Forecasts are based on relatively flat traditional markets but significantly growing LEDs, data center/cloud computing, artificial intelligence (AI) and machine learning (ML) computer hardware, emerging 5G networks and fastest growing 5G networks. Market information is based on the end market transaction of power supplies. As adapters are sold directly to end-users, in addition to the OEMs, the total power supply market has increased. The Report explores various product, market and application issues along with changing nature of the power supply industry in a strategic way. Additionally, it explores various power supply business models.

Significant uncertainty and unpredictability remains in spite of strong US economy due to tariffs and trade wars. Due to diverse nature of applications, some are growing and some declining. The report provides identifiable market niches for growth and profits.

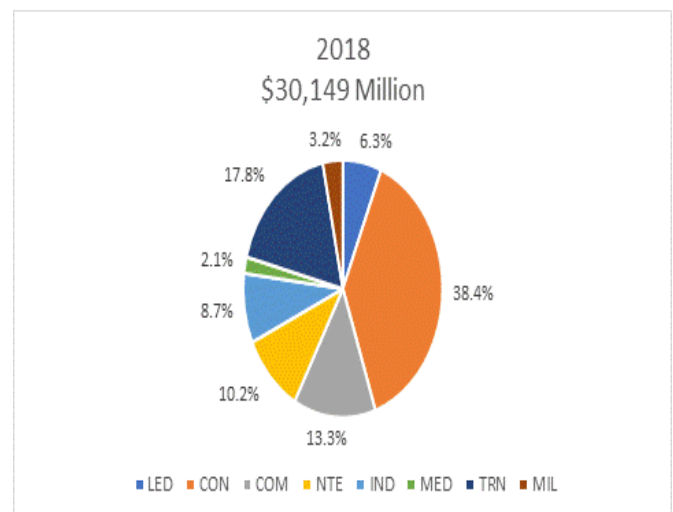
The comprehensive report provides detail information about products/marketing/business perspectives that includes:

- Total market: 2018: \$40,773 million
- Merchant market: 2018: \$30,149 million
- Short and long term trends in products and markets
- Emerging trends
- Competitive analysis
- Analysis of various business models

Global Consumption of Switching Power Supplies Merchant + Captive



Global Consumption of Merchant Switching Power Supplies Market Segments



GLOBAL SWITCHING POWER SUPPLY INDUSTRY 2019 REPORT

MTC's Global Switching Power Supply Industry Report published annually, provides the state of the power supply industry and trends of the future. It includes a detailed market forecast, technology and applications trends and competitive analysis. The report provides a macro picture of the industry and micro analysis of the market development for decision making and strategic planning. The report includes Global Power Supply Market Analysis in the following areas:

- Products: AC-DC Switchers & DC-DC Converters
- Regions: Americas, EMEA—Europe, Middle East & Africa. APAC—Asia/Pacific & ROW-Rest of the World
- Markets:
 - LED—LED Lighting
 - CON—Consumer/Retail Equipment
 - COE—Computer/Office Equipment
 - NTE—Networking/Telecom Equipment
 - IND—Industrial/Instrumentation Equipment
 - MED—Medical Equipment
 - TRN—Transportation Systems: Road, Rail, Marine & Commercial Aviation
 - MIL—Military/Aerospace Equipment
- Applications: CON: Cell Phones...; COE: Servers/Storage...; NTE: Routers...; IND: Factory Automation...
- Output Power:
 - AC-DC Switchers: 0-150W; 150-300W; 300-500W; 500-750W & 750W+
 - DC-DC Converters: 0-50W; 50-100W; 100-150W; 150-250W & 250W+
- Output Voltage: 1.2VDC; 2.5VDC; 3.3VDC; 5VDC; 12VDC; 24VDC; 48VDC...
- Input Voltage:
 - AC-DC: Universal Input
 - DC-DC: 48VDC; 24VDC; 12VDC; 5VDC
- Output Current: DC-DC: 5A; 10A; 25A; 50A; 100A; 100A+
- Product Design: DC-DC: Isolated; Non-isolated (POLs)
- Packaging: DC-DC: FB; HB; QB; EB; SB; 1x1; 1x2
- Emerging Trends in:
 - New Markets
 - Power Architecture
 - Product Models
 - Business Models

The Report is available in two versions:

Detail Version (\$3,990): Provides a detail market and application information on each market, for each product category for each geographic region. It is meant for multinational companies who participate in world's major geographic markets.

Standard Version (\$2,490): provides detail information about global markets and overviews of Americas, EMEA & APAC regions. The Standard Version is sufficient for companies who need detailed global information with an overview of specific regions.

For more information, contact MTC@

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- LED Lighting (LED)
- Consumer/Retail Equipment (CON)
- Computer/Office Equipment (COE)
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9.0 Competitive Analysis

Overview

- AcBel Polytech Inc. (AcBel)
- Artesyn Embedded Technologies (Artesyn)
- Astrodyne TDI Corp. (AstrodyneTDI)
- Bel Power Products (Bel Power)
- Calnex Manufacturing Co. (Calnex)
- Chicony Power (Chicony)
- CINCON Electronics (CINCON)
- Cosel, Inc. (Cosel)
- Crane Aerospace & Electronics
 - ELDEC
 - Interpoint
 - ST Keltec
- CUI, Inc.
- Delta Electronics, Inc. (Delta)
- Efore Plc.
- ERP Power LLC. (ERP)
- Flex™ (FlexPower)
- FRIWO AG
- FSP Group
- Lite-On Technology Corporation (Lite-On)
- MEAN WELL Enterprises Co. (MEAN WELL)
- MORNSUN GUANGZHOU SCIENCE & TECHNOLOGY CO. LTD. (MORNSUN)
- Murata Power Solutions (Murata)
- N2Power, Inc.
- NetPower Technologies, Inc. (NetPower)
- Phihong Technology Co. (Phihong)
- Salcomp Oy (Salcomp)
- Sanken Power Systems (Sanken)
- SL Power
- SynQor Inc.
- TDK-Lambda
- TT Electronics
- Vicor Corp.
- XP Power Plc.

10.0 Appendix

- Methodology & Organization

11.0 Micro-Tech Consultants (MTC)

Micro-Tech Consultants (MTC) was founded in 1984 by Mohan Mankikar: MBA; MSCS; MEEE; BEEE

Its focus has been market research, analysis and consulting in the power supply industry. It produces an annual switching power supply industry report that includes AC-DC switchers and DC-DC converters. It provides consulting services to various clients that include merchant and captive power supply companies, power component manufacturers, electronic equipment manufacturers (OEMs) and financial institutions interested in investing in the power supply industry. In last twenty four years, Micro-Tech Consultants (MTC) has been the most recognized and widely quoted power supply market research company in the world. Its name and data have been used by many public companies and leading electronic trade publications.

MTC is an active member of PSMA.

Mr. Mankikar has over 40 years of experience in the power supply industry. He is the President of Micro-Tech Consultants (MTC), which provides market research and consulting services in the power supply industry. He was previously employed by Lambda Electronics, one of the largest standard power supply manufacturer and Gnostic Concepts, a leading technical market research/consulting organization of its time. Mr. Mankikar has given presentations and seminars at various organizations on the power supply industry. He wrote "Power Technologies" column for Electronic Engineering Times for twelve years. He published a widely-read Power Electronics Industry Newsletter for twenty four years.

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PURCHASE ORDER

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