+357 96 030922
info@marketpublishers.com

Bar Type Current Transformer Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Indoor Bar Type CTs, Outdoor Bar Type CTs), By Insulation Type (Dry-Type, Oil-Immersed, Gas-Insulated), By End-User Industry (Utilities, Industrial, Commercial Buildings, Renewable Energy Plants, Data Centers), By Region & Competition, 2020-2030F

https://marketpublishers.com/r/BD08F178CA7FEN.html
Date: July 2025
Pages: 185
Price: US$ 4,500.00 (Single User License)
ID: BD08F178CA7FEN

Abstracts

Market Overview

The Global Bar Type Current Transformer Market was valued at USD 679.17 Million in 2024 and is projected to reach USD 1,076.63 Million by 2030, growing at a CAGR of 7.82% during the forecast period. This market is expanding steadily due to increasing global electricity consumption, modernization of grid infrastructure, and growing demand for reliable current measurement and protection in utility, industrial, and commercial sectors. Bar type current transformers, designed to encircle a conductor or busbar, are critical for accurate alternating current measurement and electrical isolation in power systems. Their compact form factor, straightforward installation, and strong performance in challenging environments make them particularly suitable for applications in switchgear, metering panels, and control units. Additionally, the proliferation of smart grids and digital substations has increased the demand for bar type CTs offering high accuracy, seamless integration, and real-time data monitoring capabilities.

Key Market Drivers

+357 96 030922
info@marketpublishers.com

Rising Electricity Demand and Urbanization

The continuous rise in global electricity demand, fueled by rapid urban development and industrial growth, is a major driver for the adoption of bar type current transformers. As urban areas expand and infrastructure scales up, there is a pressing need for safe, reliable, and efficient power distribution systems. Bar type CTs are increasingly deployed across utility and industrial settings to ensure accurate load monitoring, fault detection, and protection. Their compact and efficient design makes them well-suited for deployment in low- and medium-voltage networks, supporting the infrastructure needs of growing metropolitan and industrial regions.

Key Market Challenges

Increasing Competition from Alternative Current Sensing Technologies

The bar type current transformer market is increasingly challenged by alternative current sensing technologies such as Rogowski coils, Hall-effect sensors, and fiber-optic sensors. These technologies offer advantages including non-intrusive installation, higher frequency response, and flexibility—attributes that are particularly useful in modern applications like smart grids, EV charging infrastructure, and dynamic energy systems. Their lower installation complexity and minimal maintenance needs make them attractive in retrofit environments. While bar type CTs remain a mainstay in traditional power systems due to their durability and compliance with established standards, ongoing innovation is necessary to sustain their relevance in a market leaning toward advanced, compact, and multifunctional sensor technologies.

Key Market Trends

Rising Adoption in Renewable Energy Applications

The integration of renewable energy sources such as wind and solar is driving increased usage of bar type current transformers in power generation and distribution systems. These transformers are being adopted in inverter units, switchgear, and power conditioning systems due to their reliability, compactness, and ability to function in thermally intensive and space-constrained setups. With the expansion of solar PV installations and wind farms, especially in Asia-Pacific, Europe, and North America, bar type CTs are becoming essential components for maintaining grid compliance and equipment safety. The growing prevalence of decentralized generation and microgrids has further elevated the demand for current monitoring solutions that can ensure stable

+357 96 030922
info@marketpublishers.com

and efficient power flow, even in variable and distributed energy environments. Manufacturers are responding by developing CTs tailored for low-voltage, DC-coupled, and renewable-based systems, reinforcing their role in the evolving energy landscape.

Key Market Players

ABB Ltd.

Schneider Electric SE

Siemens AG

General Electric

Eaton Corporation

Mitsubishi Electric Corporation

Arteche Group

Ritz Instrument Transformers GmbH

Pfiffner Instrument Transformers Ltd.

CG Power and Industrial Solutions Ltd.

Report Scope:

In this report, the Global Bar Type Current Transformer Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Bar Type Current Transformer Market, By Type:

+357 96 030922
info@marketpublishers.com

Indoor Bar Type CTs

Outdoor Bar Type CTs

Bar Type Current Transformer Market, By Insulation Type:

Dry-Type

Oil-Immersed

Gas-Insulated

Bar Type Current Transformer Market, By End-User Industry:

Utilities

Industrial

Commercial Buildings

Renewable Energy Plants

Data Centers

Bar Type Current Transformer Market, By Region:

North America

United States

Canada

Mexico

Europe

Germany

France

+357 96 030922
info@marketpublishers.com

United Kingdom

Italy

Spain

South America

Brazil

Argentina

Colombia

Asia-Pacific

China

India

Japan

South Korea

Australia

Middle East & Africa

Saudi Arabia

UAE

South Africa

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Bar

+357 96 030922
info@marketpublishers.com

Type Current Transformer Market.

Available Customizations:

Global Bar Type Current Transformer Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

6. NORTH AMERICA BAR TYPE CURRENT TRANSFORMER MARKET OUTLOOK

7. EUROPE BAR TYPE CURRENT TRANSFORMER MARKET OUTLOOK

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

8. ASIA PACIFIC BAR TYPE CURRENT TRANSFORMER MARKET OUTLOOK

+357 96 030922
info@marketpublishers.com

9. MIDDLE EAST & AFRICA BAR TYPE CURRENT TRANSFORMER MARKET OUTLOOK

+357 96 030922
info@marketpublishers.com

10. SOUTH AMERICA BAR TYPE CURRENT TRANSFORMER MARKET OUTLOOK

11. MARKET DYNAMICS

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Bar Type Current Transformer Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Indoor Bar Type CTs, Outdoor Bar Type CTs), By Insulation Type (Dry-Type, Oil-Immersed, Gas-Insulated), By End-User Industry (Utilities, Industrial, Commercial Buildings, Renewable Energy Plants, Data Centers), By Region & Competition, 2020-2030F

Product link: https://marketpublishers.com/r/BD08F178CA7FEN.html

Price: US$ 4,500.00 (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/BD08F178CA7FEN.html