

Global Optical Current Transformer Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Optical Current Transformer market size will reach 486.73 Million USD in 2025 and is projected to reach 1,433.06 Million USD by 2032, with a CAGR of 16.68% (2025-2032). Notably, the China Optical Current Transformer market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

An optical current transformer (OCT) is a specialized electrical instrument used for measuring electrical current in high-voltage power systems. Unlike traditional current transformers that rely on magnetic cores, OCTs employ fiber optic technology to capture and transmit current information. They work by directing a laser beam through an optical sensor placed around a current-carrying conductor. The magnetic field generated by the electrical current induces a change in the optical signal, which is then detected and converted into an electrical signal for measurement. OCTs offer several advantages, including high accuracy, wide bandwidth, and electrical isolation, making them valuable tools in applications where safety, precision, and reliability are critical, such as in the monitoring and protection of electrical grid systems.

The major global manufacturers of Optical Current Transformer include ABB, Profotech, Trench Group, GE, NR Electric, Artech, T&D Products, Yangtze Optical Electronic, Comcore Optical Intelligence Technologies, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading

enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Optical Current Transformer. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Optical Current Transformer market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Optical Current Transformer market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Optical Current Transformer industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Optical Current Transformer Include:

ABB

Profotech

Trench Group

GE

NR Electric

Arteche

T&D Products

Yangtze Optical Electronic

Comcore Optical Intelligence Technologies

Optical Current Transformer Product Segment Include:

Fiber Optical Current Transformer (FOCT)

Hybrid Optical Current Transformer (HOCT)

Optical Current Transformer Product Application Include:

Substation

Converter Station

DC Power Grid

Smart Grid

Others

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