

Global Outdoor LED Drivers Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Outdoor LED Drivers market size is expected to reach \$ 10342 million by 2032, rising at a market growth of 13.3% CAGR during the forecast period (2026-2032).

An LED driver is a power converter that transforms an external power supply into a specific voltage and current to drive LED lighting products. It is a core component of LED lighting products, playing a crucial role in enabling light emission and control, improving luminous efficiency, controlling system power consumption, and ensuring product stability, reliability, and long lifespan. Outdoor LED drivers are dedicated LED constant current or constant voltage power converters for scenarios such as road lighting, tunnel lighting, park and plaza lighting, outdoor floodlighting, and landscape lighting. They are used to stably convert AC mains power or DC bus power into the output required by the LED load, achieving high efficiency, long lifespan, and low failure rate operation in harsh environments such as lightning surges, power grid fluctuations, wide temperature differences, humidity condensation, dust, and salt spray corrosion. Compared to general-purpose indoor drivers, outdoor drivers place greater emphasis on surge/lightning protection, wide input voltage adaptability, IP65/IP67 protection rating, redundant thermal management design, long-term warranty, and consistent reliability verification. They typically support dimming interfaces such as 0-10V, PWM, and DALI, or interfaces and programmable capabilities specific to smart streetlights to meet the needs of time-sharing dimming, energy saving, and remote operation and maintenance. In the outdoor lighting field, LED driver power supplies are mainly used in outdoor LED functional lighting fixtures such as streetlights, tunnel lights, high-mast lights, floodlights, courtyard lights, and parking lot lights.

In 2025, the global production of outdoor LED drivers was approximately 361 million units, with an average price of approximately US\$11.61 per unit and a gross profit

margin of approximately 27.6%. The single-line production capacity of high-power LED drivers is approximately 12.15 million units. Raw materials include electronic components such as transformers, MOSFETs, ICs (integrated circuits), capacitors, and inductors, as well as PCB boards, base and cover structures, potting compounds, etc., with raw material costs accounting for approximately 85%.

The demand for outdoor LED driver power supplies is primarily driven by the LED transformation of road and municipal lighting, time-dimming and energy-saving features of smart streetlights, and the replacement of existing lighting fixtures. The core value of outdoor applications lies not in the 'lowest unit price,' but in 'full lifecycle reliability and maintenance costs': Driver failure on-site replacement involves high-altitude operations, traffic management, and the risk of lighting outages, with overall costs far exceeding the price difference of the power supply itself. Therefore, customers are often willing to pay for high surge capability, wide voltage compatibility, long-life thermal design, and longer warranties. In terms of product evolution, the competitive focus of outdoor drivers is shifting from simple efficiency to 'controllable and engineered delivery capabilities,' including finer-grained dimming, programmable output, power consistency management, and system collaboration with smart streetlight control nodes. Simultaneously, regional operating conditions such as lightning surges, salt spray corrosion, and extreme temperature differences are driving 'tiered protection and surge ratings,' resulting in a clearer high-end structure for outdoor drivers. Short-term risks mainly stem from price competition in municipal bidding and fluctuations in payment cycles, but in the medium to long term, energy-saving and intelligent upgrades will continue to increase the value share of mid-to-high-end outdoor drivers.

This report studies the global Outdoor LED Drivers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Outdoor LED Drivers 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 Outdoor LED Drivers that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Outdoor LED Drivers total production and demand, 2021-2032, (Million Units)

Global Outdoor LED Drivers total production value, 2021-2032, (USD Million)

Global Outdoor LED Drivers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Outdoor LED Drivers consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Outdoor LED Drivers domestic production, consumption, key domestic manufacturers and share

Global Outdoor LED Drivers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Outdoor LED Drivers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Outdoor LED Drivers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Outdoor LED Drivers 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 Philips, Tridonic, Delta Electronics, TCI, ams-OSRAM AG, Signify, Advanced Energy, Fulham, RECOM Power, TOPWAY, 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 Outdoor LED Drivers market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, by Type, 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 Outdoor LED Drivers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Outdoor LED Drivers Market, Segmentation by Type:

High Power

Medium Power

Small Power

Global Outdoor LED Drivers Market, Segmentation by Output Regulation:

Constant Current

Constant Voltage

Global Outdoor LED Drivers Market, Segmentation by Channel:

Direct Sales

Distribution

Global Outdoor LED Drivers Market, Segmentation by Application:

Street and Road Lighting

Tunnel Lighting

Landscape Lighting

Others

Companies Profiled:

Philips

Tridonic

Delta Electronics

TCI

ams-OSRAM AG

Signify

Advanced Energy

Fulham

RECOM Power

TOPWAY

Eaglerise Electric

Upowertek

Powerland

Shenzhen SOSEN Electronics Co.,Ltd.

MEAN WELL

Inventronics

Shenzhen MOSO Power Supply Technology Company Limited

Lifud Technology Co., Ltd.

Donepower

Fahold

Key Questions Answered:

1. How big is the global Outdoor LED Drivers market?
2. What is the demand of the global Outdoor LED Drivers market?
3. What is the year over year growth of the global Outdoor LED Drivers market?
4. What is the production and production value of the global Outdoor LED Drivers market?
5. Who are the key producers in the global Outdoor LED Drivers market?
6. What are the growth factors driving the market demand?

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