

Global Vertical Farming LED Grow Light Module Market Growth 2026-2032

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Abstracts

The global Vertical Farming LED Grow Light Module market size is predicted to grow from US\$ 1154 million in 2025 to US\$ 2673 million in 2032; it is expected to grow at a CAGR of 12.8% from 2026 to 2032.

In 2025, global Vertical Farming LED Grow Light Module production reached approximately 12.83 million units, with an average global market price of around USD 92 per unit.

The gross profit margin of major companies in the industry is between 25.64%-46.82%.

In 2025, the global production capacity of Vertical Farming LED Grow Light Module was approximately 16.88 million units.

Vertical Farming LED Grow Light Module is a lighting module designed for controlled-environment agriculture and multi-layer indoor farming. It uses LED chips, optics, drivers and thermal structures to provide crop-specific light spectra, intensity and photoperiod control. The module supports leafy greens, herbs, seedlings, strawberries, medicinal plants and plant factories. The market includes light bars, panels and modular grow light assemblies used in vertical farms, but excludes ordinary greenhouse lamps, household plant lights and complete farm construction systems.

The industry chain includes LED chips, phosphors, lenses, drivers, aluminum profiles, heat sinks, cables, sensors, control boards and waterproof materials. Midstream production covers spectrum design, module assembly, thermal management, optical testing, electrical testing, aging and packaging. Downstream demand comes from vertical farms, plant factories, seedling centers, research farms, urban agriculture

operators and controlled-environment crop producers. Growth is driven by indoor farming, year-round production, food security, water-saving agriculture and demand for optimized crop yield.

United States market for Vertical Farming LED Grow Light Module is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Vertical Farming LED Grow Light Module is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Vertical Farming LED Grow Light Module is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Vertical Farming LED Grow Light Module players cover Signify, ams OSRAM, Fluence Bioengineering, Heliospectra, Valoya, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Vertical Farming LED Grow Light Module Industry Forecast" looks at past sales and reviews total world Vertical Farming LED Grow Light Module sales in 2025, providing a comprehensive analysis by region and market sector of projected Vertical Farming LED Grow Light Module sales for 2026 through 2032. With Vertical Farming LED Grow Light Module sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Vertical Farming LED Grow Light Module industry.

This Insight Report provides a comprehensive analysis of the global Vertical Farming LED Grow Light Module landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Vertical Farming LED Grow Light Module portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Vertical Farming LED Grow Light Module market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Vertical Farming LED Grow Light Module and breaks down the forecast by Type, by Application, geography, and market size to highlight

emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Vertical Farming LED Grow Light Module.

This report presents a comprehensive overview, market shares, and growth opportunities of Vertical Farming LED Grow Light Module market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Full-Spectrum LED Modules

Red-Blue Spectrum LED Modules

Tunable Spectrum LED Modules

Segmentation by Module Form:

Linear LED Grow Light Modules

Panel LED Grow Light Modules

Bar-Type LED Grow Light Modules

Segmentation by Photon Flux:

Low PPF??100 ?mol/s?

Medium PPF?101?300 ?mol/s?

High PPF??300 ?mol/s?

Segmentation by Application:

Leafy Greens Cultivation

Herbs and Microgreens Cultivation

Seedling Propagation

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Signify

ams OSRAM

Fluence Bioengineering

Heliospectra

Valoya

Current (GE Current)

Gavita

Sanlight

Kroptek

Sollum Technologies

Illumitex

LumiGrow

Sananbio (Sanan Optoelectronics)

MLS Co., Ltd.

Nationstar Optoelectronics

Kinglight

Oppl Lighting

NVC Lighting

Leedarson

Xiamen Changelight

Key Questions Addressed in this Report

What is the 10-year outlook for the global Vertical Farming LED Grow Light Module market?

What factors are driving Vertical Farming LED Grow Light Module market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Vertical Farming LED Grow Light Module market opportunities vary by end market size?

How does Vertical Farming LED Grow Light Module break out by Type, by Application?

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