

Global Vertical Farming LED Grow Light Module Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Vertical Farming LED Grow Light Module market size was valued at US\$ 1214 million in 2025 and is forecast to a readjusted size of US\$ 2701 million by 2032 with a CAGR of 12.1% during review period.

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.

This report is a detailed and comprehensive analysis for global Vertical Farming LED Grow Light Module market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Vertical Farming LED Grow Light Module market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Vertical Farming LED Grow Light Module market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Vertical Farming LED Grow Light Module market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Vertical Farming LED Grow Light Module market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Vertical Farming LED Grow Light Module

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Vertical Farming LED Grow Light Module market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Signify, ams OSRAM, Fluence Bioengineering, Heliospectra, Valoya, Current (GE Current), Gavita, Sanlight, Kroptek, Sollum Technologies, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Vertical Farming LED Grow Light Module market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Full-Spectrum LED Modules

Red-Blue Spectrum LED Modules

Tunable Spectrum LED Modules

Market segment by Module Form

Linear LED Grow Light Modules

Panel LED Grow Light Modules

Bar-Type LED Grow Light Modules

Market segment by Photon Flux

Low PPF??100 ?mol/s?

Medium PPF?101?300 ?mol/s?

High PPF??300 ?mol/s?

Market segment by Application

Leafy Greens Cultivation

Herbs and Microgreens Cultivation

Seedling Propagation

Other

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Vertical Farming LED Grow Light Module product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Vertical Farming LED Grow Light Module, with price, sales quantity, revenue, and global market share of Vertical Farming LED Grow Light Module from 2021 to 2026.

Chapter 3, the Vertical Farming LED Grow Light Module competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Vertical Farming LED Grow Light Module breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Vertical Farming LED Grow Light Module market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Vertical Farming LED Grow Light Module.

Chapter 14 and 15, to describe Vertical Farming LED Grow Light Module sales channel, distributors, customers, research findings and conclusion.

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