

Global Vertical Farming LED Grow Light Module Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Vertical Farming LED Grow Light Module market size is expected to reach \$ 2701 million by 2032, rising at a market growth of 12.1% CAGR during the forecast period (2026-2032).

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.

This report studies the global Vertical Farming LED Grow Light Module production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Vertical Farming LED Grow Light Module 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 Vertical Farming LED Grow Light Module that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Vertical Farming LED Grow Light Module total production and demand, 2021-2032, (Units)

Global Vertical Farming LED Grow Light Module total production value, 2021-2032, (USD Million)

Global Vertical Farming LED Grow Light Module production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Vertical Farming LED Grow Light Module consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Vertical Farming LED Grow Light Module domestic production, consumption, key domestic manufacturers and share

Global Vertical Farming LED Grow Light Module production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Vertical Farming LED Grow Light Module production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Vertical Farming LED Grow Light Module production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Vertical Farming LED Grow Light Module 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Vertical Farming LED Grow Light Module market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Vertical Farming LED Grow Light Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Vertical Farming LED Grow Light Module Market, Segmentation by Type:

Full-Spectrum LED Modules

Red-Blue Spectrum LED Modules

Tunable Spectrum LED Modules

Global Vertical Farming LED Grow Light Module Market, Segmentation by Module Form:

Linear LED Grow Light Modules

Panel LED Grow Light Modules

Bar-Type LED Grow Light Modules

Global Vertical Farming LED Grow Light Module Market, Segmentation by Photon Flux:

Low PPF??100 ?mol/s?

Medium PPF?101?300 ?mol/s?

High PPF??300 ?mol/s?

Global Vertical Farming LED Grow Light Module Market, Segmentation by Application:

Leafy Greens Cultivation

Herbs and Microgreens Cultivation

Seedling Propagation

Other

Companies Profiled:

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 Answered:

1. How big is the global Vertical Farming LED Grow Light Module market?

2. What is the demand of the global Vertical Farming LED Grow Light Module market?
3. What is the year over year growth of the global Vertical Farming LED Grow Light Module market?
4. What is the production and production value of the global Vertical Farming LED Grow Light Module market?
5. Who are the key producers in the global Vertical Farming LED Grow Light Module market?
6. What are the growth factors driving the market demand?

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