

Product Catalogue

NEW PRODUCT YEAR 2025





Lion Agritech :

Empowering Growth through Advanced LED Lighting

WELCOME TO LION AGRITECH SINGAPORE:
YOUR SUSTAINABLE AGRICULTURE SOLUTION PROVIDER

At Lion Agritech Singapore, we are at the forefront of horticultural innovation, dedicated to transforming agriculture through advanced lighting technology. As an innovative startup specialising in ODM LED Grow Lights for large-scale horticulture, we are committed to providing cutting-edge solutions that empower growers and our partners to achieve unprecedented yields, optimise efficiency, and cultivate superior crops.

We are a nimble and forward-thinking team, driven by a passion for sustainable agriculture and a commitment to technological excellence.

Our mission is to be the trusted ODM partner for horticultural equipment distributors and greenhouse builders, enabling them to deliver the most advanced, reliable, durable, and sustainable lighting solutions to their customers worldwide.

@LIONAGRI.COM



SEEKING DISTRIBUTORS!

The Horticultural Opportunity: A Market Ripe for Innovation

The Greenhouse Horticulture sector is experiencing a remarkable boom, fueled by national imperatives for food self-sufficiency and significant government investment in modern agricultural technologies. This rapid expansion and modernisation of greenhouse complexes across countries create an immense demand for high-performance, energy-efficient lighting.

A critical challenge for most growers is the high cost of energy, which can account for approximately 50% of operational expenses in greenhouses utilizing assimilation lighting. This economic reality makes advanced LED technology not just an upgrade, but a necessity for profitability and sustainable growth.

Lion Agritech is strategically positioned to meet this demand. We offer solutions that directly address these challenges, enabling our partners to provide their customers with the tools to reduce costs, increase output, and thrive in this evolving market.



LION AGRITECH

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3.8
 $\mu\text{mol/J}$

"PRECISION POWER
FOR COMPACT CULTIVATION
THE 760W TOP PERFORMER."

TOP LIGHT 760W

- 2850 $\mu\text{mol/s}$ PAR OUTPUT
- INPUT VOLTAGE: AC 347–400V
- POWER FACTOR: >0.95
- DIMMABLE 0–10V
- CE + ROHS + FCC COMPLIANT

BEST FOR

Optimised for medium to large grow spaces, greenhouses, and commercial-scale vertical farms. The Lion Agritech Top Light is engineered for high-output crop production where consistent, full-coverage lighting is crucial. Ideal for:

- Supplemental top lighting in greenhouses
- Layered lighting in vertical systems
- Light-demanding crops like tomatoes, lettuce, medicinal plants and strawberries

This fixture supports uniform light distribution across broader canopy areas, ensuring healthier growth, higher yield, and reduced need for multiple fixtures.

SUSTAINABILITY EDGE

Built with energy efficiency and ecological responsibility at its core.

- High PPE (up to 3.8 $\mu\text{mol/J}$) translates to more photosynthetically useful light per watt, reducing electricity usage significantly.
- Reduced thermal load allows for lower HVAC demand, cutting operational energy costs and environmental impact.
- Manufactured in ISO14001-certified facilities with minimal waste, eco-conscious packaging, and compliance with EU RoHS directives.
- Designed for longevity: ~50,000 hours lifespan reduces material waste and maintenance costs.

GROW MORE, WASTE LESS, AND MOVE
CLOSER TO NET-ZERO GOALS WITH EVERY
HARVEST.

Lion Agritech Pte Ltd.
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TOP LIGHT 650W

XD Series/XD HE Series	R90G5B5	FR5R85G5B5	R90G5B5/FR10
Input Voltage	AC347/400 V		
Input Current	1.9A/1.7A		
Input Power	650W		
Dimming	0-10V		
Beam Angle	130°		
Power Factor	>0.95		
PPF Output(umol/s)	2300	2275	2275
	2450	2400	2400
PPF Efficacy(umol/J)	3.6	3.6	3.5
	3.8	3.7	3.7
Product Weight	9Kg(±3%)		
IP Rating	IP65		
Dimensions	61.5x26.6x8.5cm		
Certification	CE/CSA/DLC		
Warranty	5 Years		

TOP LIGHT 760W

XB Series/XB HE Series	R90G5B5	FR5R85G5B5	R90G5B5/FR10
Input Voltage	AC347/400 V		
Input Current	2.3A/1.9A		
Input Power	760W		
Dimming	0-10V		
Beam Angle	130°		
Power Factor	>0.95		
PPF Output(umol/s)	2750	2650	2650
	2850		
PPF Efficacy(umol/J)	3.5	3.5	3.5
	3.8		
Product Weight	9.5Kg(±3%)		
IP Rating	IP65		
Dimensions	61.5x26.6x8.5cm		
Certification	CE/CSA/DLC		
Warranty	5 Years		





"BRILLIANCE
UNLEASHED
PUSH YOUR CANOPY
TO ITS FULLEST
POTENTIAL."

3.8
 $\mu\text{mol/J}$

- 5300 $\mu\text{mol/s}$ PAR OUTPUT
- POWER FACTOR: >0.98
- DIMMABLE 0-10V
- HEAVY-DUTY COOLING FOR EXTENDED LIFESPAN
- CE + ROHS + FCC COMPLIANT

TOP LIGHT 1400W

BEST FOR

Tailored for high-bay greenhouse installations and densely packed cultivation zones, especially in commercial-scale or research-intensive farming environments where vertical height, uniform light distribution, and intensity are critical to plant health and productivity. This lighting solution ensures deep canopy penetration and consistent performance across large coverage areas.

Perfect for:

- Fruiting vegetables that require sustained light exposure during bloom and fruiting stages
- Dense leafy greens grown in stacked or tightly spaced configurations
- Flowering crops that demand reliable and uniform high-PAR output for consistent bud development and optimal phytochemical profiles

SUSTAINABILITY EDGE

Less is more. Thanks to its exceptional photosynthetic efficacy, this fixture delivers more usable light with fewer units, helping growers reduce infrastructure complexity and operational costs.

- Reduced total fixture count, minimizing resource use in hardware, materials, and maintenance
- Lower cumulative power draw, easing energy loads on facilities and cutting electricity bills
- Fewer installation points and cables, meaning lower installation time, labour, and material costs
- Decreased overall carbon footprint, supporting your farm's climate goals and ESG targets

INCREASED OPERATIONAL LIFE AND ISO14001-ALIGNED MANUFACTURING, THIS FIXTURE LETS YOU SCALE UP WHILE STEPPING LIGHTER ON THE PLANET.

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TOP LIGHT 1100W

XC Series	R90G5B5	FR5R85G5B5	R90G5B5/FR10
Input Voltage	AC347/400 V		
Input Current	3.2A/2.8A		
Input Power	1100W		
Dimming	0-10V		
Beam Angle	130°		
Power Factor	>0.95		
PPF Output(umol/s)	4180	4100	4180
PPF Efficacy(umol/J)	3.8	3.75	3.8
Product Weight	14Kg(±3%)		
IP Rating	IP65		
Dimensions	74x31x9cm		
Certification	CE/CSA/DLC		
Warranty	5 Years		

TOP LIGHT 1400W

XH Series	R90G5B5	FR5R85G5B5	R90G5B5/FR10
Input Voltage	AC347/400 V		
Input Current	4.05A/3.5A		
Input Power	1400W		
Dimming	0-10V		
Beam Angle	130°		
Power Factor	>0.95		
PPF Output(umol/s)	5320		
PPF Efficacy(umol/J)	3.8		
Product Weight	15.8/Kg(±3%)		
IP Rating	IP65		
Dimensions	84x33x10cm		
Certification	CE/CSA/DLC		
Warranty	5 Years		





3.0
 $\mu\text{mol}/\text{J}$

- FOLDABLE FRAME FOR EASE OF TRANSPORT
- 1950 $\mu\text{mol}/\text{s}$ OUTPUT
- AC 208–480V
- POWER FACTOR >0.95
- CE + ROHS + FCC COMPLIANT

"EFFICIENCY MEETS
PORTABILITY
FOLD. PLUG. GROW."

FOLDABLE LIGHT 650W

BEST FOR

A top pick for growers and innovators seeking mobility without sacrificing performance. This unit is purpose-built for:

- Mobile farms and grow-on-the-go setups, especially in urban environments, container farms, and modular growing units
- Pop-up installations at trade shows, educational events, exhibitions, or research demonstrations, where quick setup and teardown are crucial
- Quick-install operations with tight timelines or frequent relocations, such as disaster relief food systems, pilot programs, or temporary greenhouse extensions

SUSTAINABILITY EDGE

Efficiency isn't just about energy, it's about the entire footprint from production to deployment.

- The foldable frame reduces packaging size and shipping volume, helps cut down logistics emissions and warehouse storage needs
- Lower carbon emissions during transport, making it ideal for operations seeking to reduce their Scope 3 emissions
- Durable construction and long lifespan reduce waste from replacements, contributing to a more circular use cycle
- Designed for reuse across multiple seasons and sites, helping growers lower their total cost of ownership and environmental impact

PERFECT FOR SUSTAINABILITY-DRIVEN
GROWERS WHO DEMAND HIGH PERFORMANCE
WITH A LIGHTER ENVIRONMENTAL TOUCH AND
SMARTER LOGISTICS.

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FOLDABLE LIGHT

XM Series	R46G34B20	
Input Voltage	AC208/480 V	
Input Current	3.2A/1.4A	3.8A/1.7A
Input Power	650W	780W
Dimming	0-10V	
Beam Angle	120°	
Power Factor	>0.95	
PPF Output(umol/s)	1950	2450
PPF Efficacy(umol/J)	3.0	3.2
Product Weight	7.2Kg(±3%)	8Kg(±3%)
IP Rating	IP65	
Dimensions	117x112x3.6cm	
Certification	ETL/DLC/FCC/CSA	
Warranty	5 Years	

TOP LIGHT

XF Series	R46G34B20	
Input Voltage	AC208/480 V	
Input Current	3.2A/1.4A	
Input Power	650W	
Dimming	10V	
Beam Angle	130°	
Power Factor	>0.95	
PPF Output(umol/s)	2010	
PPF Efficacy(umol/J)	3.1	
Product Weight	9.6/Kg(±3%)	
IP Rating	IP65	
Dimensions	61.5x26.6x8.5cm	
Certification	ETL/DLC/FCC/CSA	
Warranty	5 Years	



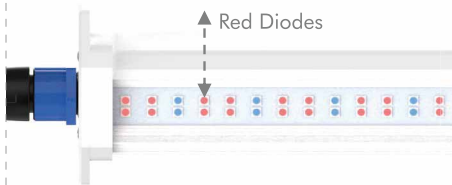
Interlight

Maximum two Layers Interlighting

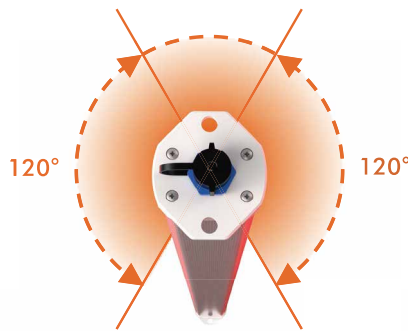


FEATURES

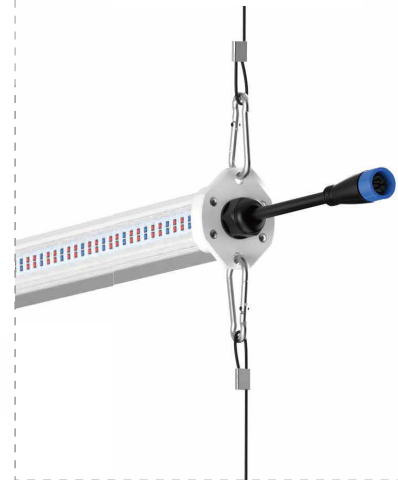
RED Diodes



300°Luminous



Up and Down Hanging Hole



SPECIFICATIONS

Model	G68-01	
Total wattage	60W	130W
Fill Light Module Wattage	60W	130W
PPF(Light output $\pm 5\%$)	210 $\mu\text{mol/s}$	455 $\mu\text{mol/s}$
PPE	3.5 $\mu\text{mol/J}$	
Warranty	5 Years	5 Years
Dimensions	1218*55*80mm	2418*55*80mm
Power Factor	>0.98	
Beam Angle	300°	
Waterproof Rating	Wet location / IP65	
Thermal Management	Passive Cooling	
Ambient Temperature	14 ~ 104 °F (-10 ~ 40°C)	
Input Voltage	AC200-400V 50/60Hz	



Solar Pests Trap

PRODUCT STRUCTURE

Hanging

Rope Hanging / Insert The Ground (Soil)

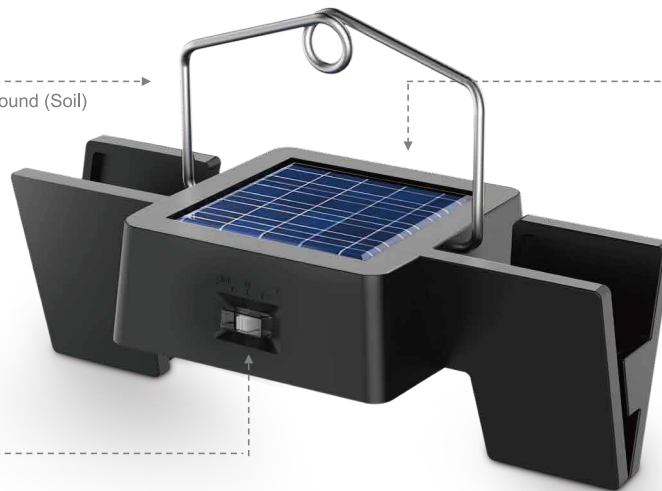
Solar Panel

Growlighting / Sunshine

Color Switch

Yellow light / Blue light

Folder



APPLICABLE SCENARIOS

Blueberry Raspberry



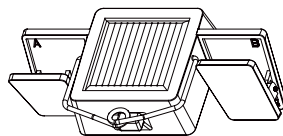
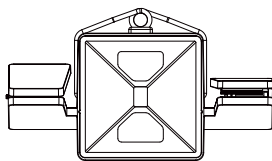
Vegetable



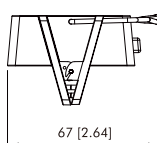
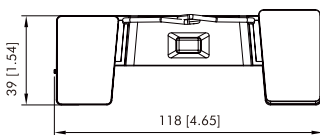
Tomato



DIMENSIONS



Unit: mm [in]



SPECIFICATIONS

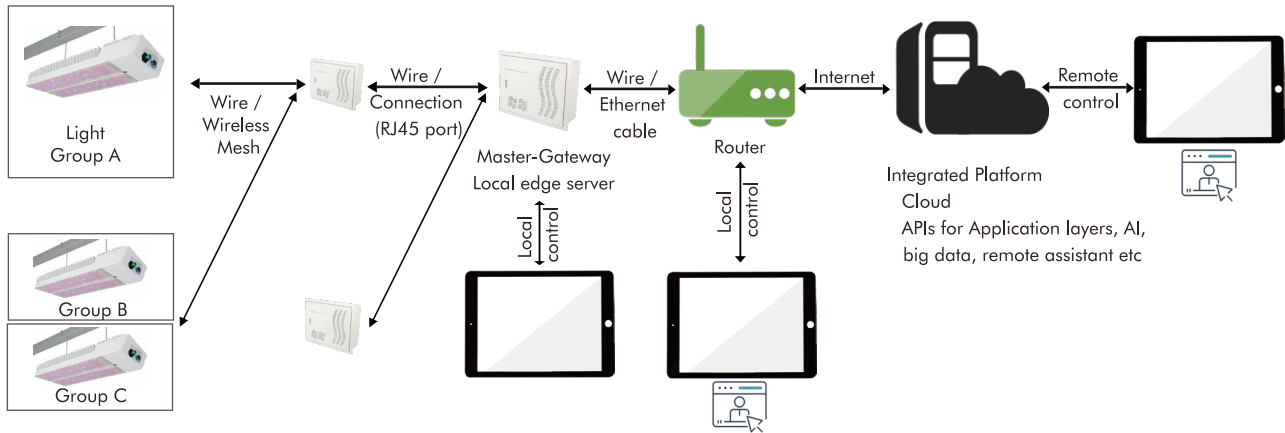
Model	G51-01
Voltage	2VDC
Wattage	0.2W
Battery	300mAh/1.2V
Charging Time	6-7H
Operation Time	3.0-3.5H
Turn On Condition	36lx
Dimension	118*67*39mm



Smart Control for Smarter Yields

Plant Growth Lights Control System by Lion Agritech

Unlock the full potential of your grow operation with our intelligent lighting control platform, engineered for flexibility, scalability, and precision control across any cultivation environment.



Key Features & Capabilities

Robust Connectivity

- **Wired Mode** : Supports up to 1,000 lighting controllers with a stable gateway range exceeding 50 meters
- **Wireless Mode** : Extended > 1,000 meters range via Sub-1G Mesh Network, ideal for large-scale facilities
- Supports automatic networking, ensuring seamless onboarding and scalability across new zones or lamp installations
- **Intelligent Lamp Management**
- **Individual Lamp Control** : Adjust intensity, spectrum, and timing for each unit independently
- **Real-time Status Feedback** : Monitor health, faults, and activity across your entire lighting network
- **Adaptive Control** : Respond to plant needs instantly, optimise energy use dynamically
- **Pre-Programmed Growth Recipes**
- Access pre-set lighting schemes aligned with the full growth cycle of both plants and animals, from seedling to harvest or hatch to maturity
- Ensure your crops or livestock receive optimal light exposure at every stage without manual intervention

Sustainability by Design

By automating and optimising your lighting environment, this control system reduces wasted energy, avoids overexposure, and prolongs the lifespan of each LED fixture. It's a **smarter path to better growth, lower costs, and a lighter environmental footprint.**

Ideal for:

Greenhouses • Vertical Farms • Research Labs
• Livestock Facilities

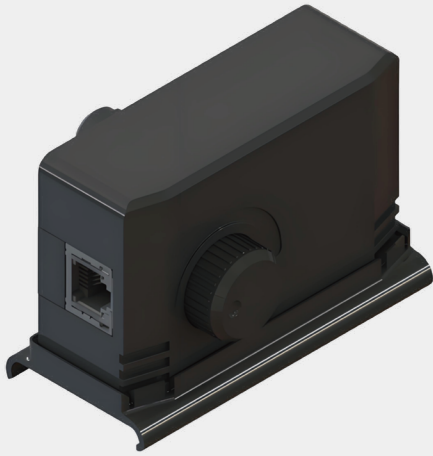
Compatible with:

Lion Agritech's full range of LED Grow Lights

**LET PRECISION
CONTROL DRIVE YOUR
PRODUCTIVITY,
SUSTAINABILITY, AND
PEACE OF MIND.**



Our Smart Controllers



LIGHT CONTROLLER (WIRE)

Power: 100ma@12V

Internal communication: 8-core Ethernet cable

Output signal: 0-10V or digital signal

FEATURES

Supports:

- Supporting cascading of 1000 controllers with gateway
- Supports 1-way analog signal control
- Support digital signal control
- Support status feedback



LIGHT CONTROLLER (WIRELESS)

Power: 100ma@12V

Internal communication: Mesh

Output signal: 0-10V or digital signal

FEATURES

Supports:

- Supporting cascading of 1000 controllers with Gateway
- Supports digital signal control
- Support status feedback



GATEWAY

Power: PD 30W

Internal communication: Mesh & 8-core Ethernet cable

FEATURES

Supports:

- Supporting cascading of 10000 controllers in one Gateway
- Local server, local data storage and processing
- Improve device efficiency through monitoring and controlling smart devices

