



LED GROW LIGHT CATALOGUE

2020-2021
LIGHT ON TECHNOLOGY CO., LTD



COMPANY PROFILE

Light On Technology is an innovative high-tech company, focusing on the research of LED light sources and product application. It is dedicated to providing customers with professional service and high-quality products. Light On Technology is located in Shenzhen China, with convenient transportation and fast information. The core team have been engaged in R&D, manufacturing, marketing of LED industry for more than 10 years, and they have a deep understanding of LED packaging, photoelectric performance, product certification, structure design, the market and etc.

So far, the company has more than 100 employees, nearly 20 R&D staffs, and a production area of 2000 square meters. Light On Technology offers products in a wide range of lighting categories, including LED grow lights, LED COB strip lights as well as other industrial lights. The strategic markets are the United States, Canada and Europe. All the Products have complied with local certification requirements, such as ETL, cETL, CE, ROHS, etc.

We are committed to delivering the most cutting edge technology with the highest quality of light while meeting and exceeding energy efficiency standards, all to improve our customers' bottom line.

WHY TO CHOOSE US?



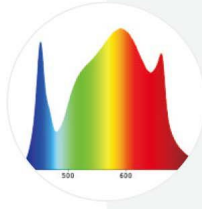
• LED GROW LIGHT

• GROW TOOL KITS

LED VS HID

- **Sunlike Spectrum**

Optimized Sunlike full spectrum design, suitable for all phases of plant growth and production, including vegetative, flowering.



- **More Energy Saving**

Normally LED grow lights come in 600 Watts, a retrofit for 1000W or 1200W HID. Moreover, the coverage under LED lights is 2 to 4 times as big as HID.



- **Long Lifespan**

The lifetime of LED grow lights can reach as many as 50000 hours, with less light decay in five years. Free maintenance



- **Increasing Yield**

The record from our customers is 2.8-3.2 lbs per light. Generally, it only takes 3 months for a cycle. Growers can harvest four times per year.



Single Spectrum

HID lights are fixed frequency spectrum output. the effective absorption rate for plants is low.

More Energy Consumption

Mostly the HID is powered by 1000-1200W. Part of the energy is wasted through heat.

Short Lifespan

Due to high heat production and high light decay, the bulb inside should often be changed. High replacement cost

Less Yield

The output per light is 1.5-1.8lbs, and a cycle will take 4-5 months.



LED GROW LIGHT

VS



HID LIGHT

LED GROW LIGHT

Contents

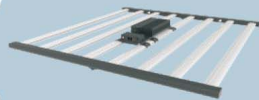
MODEL F6

Model F6 is the G3 foldable LED grow light. The flexible and compact design ensures more focused light on plant and 40% less shipping cost by reducing packing CBM.



MODEL F3

Foldable design for quickest and easiest installation; Mostly used in indoor farms.

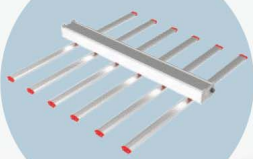


MODEL F4

The second generation foldable LED grow light with integrated driver. This powerful model can output up to 1000W with 2.7 um

MODEL S4

Small packaging size for saving shipping cost; More convenient to DIY the products; Widely applied in large-scale farms and greenhouses.



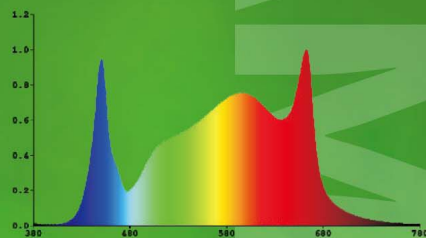
From home grow to farm use,
from indoor to outdoor environment,
from seedling to flowering,
from all-day lighting to supplemental lighting,
...

Light On Technology offers a wide range of plant grow lighting solutions.

Indoor Lighting Solution

FEATURES

- Built with the best chip and brand driver for higher efficacy and longer lifespan;
- Most trustable full-cycle Sunlike spectrum with proven result, optimized for rapid growth and complete plant development;
- Plug & play design makes the horticultural be much easier and save lots of shipping cost and manpower;
- 0-10V dimming (network cable and knob dimmer) can make your lighting system smarter and easier;
- 5 years warranty gives you need from a high-quality grow lights- at an affordable price.



MODEL S4



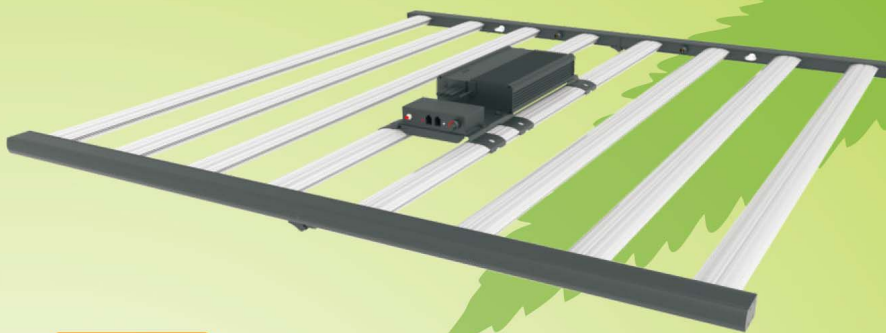
DATA SHEET

Model No.	GL600WMS4-06SD-0101	GL600WES4-06JD-0101	GL720WHS4-08MD-0101	GL720WHS4-08MD-0304	GL700WHS4-08MD-020101
LED Quantity	(340W+16R)*6 pcs	(300W+16R)*6 pcs	(340W+16R)*8 pcs	(340W+16R)*8 pcs	(336W+16R+8FR+4UV)*8 pcs
LED Brand	EPISTAR	EPISTAR	EPISTAR	Samsung+ Osram	EPISTAR
Power	600W @277V	600W @277V	800W @277V	800W @277V	720W @277V
Driver Brand	SOSEN	JUSON	Meanwell	Meanwell	Meanwell
Power Factor	>0.95	>0.90	>0.95	>0.95	>0.95
PPF	1500 Umol/S	1440 Umol/S	2240 Umol/S	2400 Umol/S	1944 Umol/S
PPF Efficacy	2.5 Umol/J	2.4 Umol/J	2.8 Umol/J	3.0 Umol/J	2.7 Umol/J
Function	0-10V(optional)	0-10V(optional)	0-10V knob dimming	0-10V knob dimming	0-10V knob dimming
Lamp Size	1083*1108*135mm	1083*1108*135mm	1083*1108*135mm	1083*1108*135mm	1083*1108*135mm
Coverage	5ft x5ft	5ft x5ft	6ft x6ft	6ft x6ft	6ft x6ft
Housing Color	Silver, 1.5-M plug	Silver, 1.5-M plug	Silver, 1.5-M plug	Silver, 1.5-M plug	Silver, 1.5-M plug
Material	Aluminum + PC	Aluminum + PC	Aluminum + PC	Aluminum + PC	Aluminum + PC

Remarks: For other requirement on other driver brands or the main core cable length, please consult with our sales Rep.

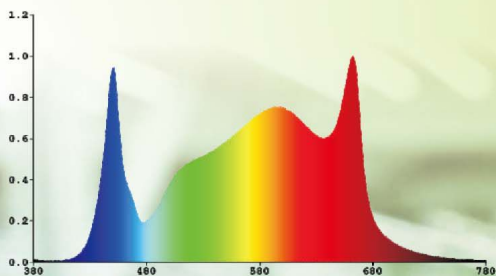
MODEL **F3**

Foldable Type



FEATURES

- Built with Top Bin Samsung & Osram Chip and brand driver for higher efficacy and longer lifespan,
- Wide input voltage AC100-277V and 0-10V dimming can make your lighting system smarter and easier;
- Energy saving, Instant start, no flickering, no humming, long service life, increase hemp output;
- Slim design that is foldable up to 180 degrees can makes the light small, compact and easy to install;
- The simple Plug-and-play structure makes it much easier to assemble, quickly mount the light in low rooms, on vertical racks, greenhouse;
- Fan-free passive thermal management and best heat sink makes no noise to interrupt the surroundings and ensure longer life time;
- Optimized spectrum white plus high efficiency 660nm Red for all phases of plant growth and production;



DATA SHEET

Model No.	GL600WMF3-06SN-0101	GL600WEF3-06SN-0101	GL600WHF3-08YD-0101	GL600WHF3-08YD-0304	GL600WHF3-08YD-020101
LED Quantity	(340W+16R)*6 pcs	(300W+16R)*6 pcs	(340W+16R)*8 pcs	(340W+16R)*8 pcs	(336W+16R+8FR+4UV)*8pcs
LED Brand	EPISTAR	EPISTAR	EPISTAR	Samsung+ Osram	EPISTAR
Power	600W @277V	600W @277V	600W @277V	600W @277V	600W @277V
Driver Brand	SOSEN	SOSEN	INVENTRONICS	INVENTRONICS	INVENTRONICS
Power Factor	>0.95	>0.95	>0.95	>0.95	>0.95
PPF	1500 Umol/S	1440 Umol/S	1680 Umol/S	1800 Umol/S	1620 Umol/S
PPF Efficacy	2.5 Umol/J	2.4 Umol/J	2.8 Umol/J	3.0 Umol/J	2.7 Umol/J
Function	0-10V(optional)	0-10V(optional)	0-10V knob dimming	0-10V knob dimming	0-10V knob dimming
Lamp Size	1184*1143*29mm	1184*1143*29mm	1184*1143*29mm	1184*1143*29mm	1184*1143*29mm
Coverage	5ft x5ft	5ft x5ft	6ft x6ft	6ft x6ft	6ft x6ft
Housing Color	Black&Silver, 1.5-M plug	Black&Silver, 1.5-M plug	Black&Silver, 1.5-M plug	Black&Silver, 1.5-M plug	Black&Silver, 1.5-M plug
Material	Aluminum + PC	Aluminum + PC	Aluminum + PC	Aluminum + PC	Aluminum + PC

Remarks: For other requirement on other driver brands or the main core cable length, please consult with our sales Rep.

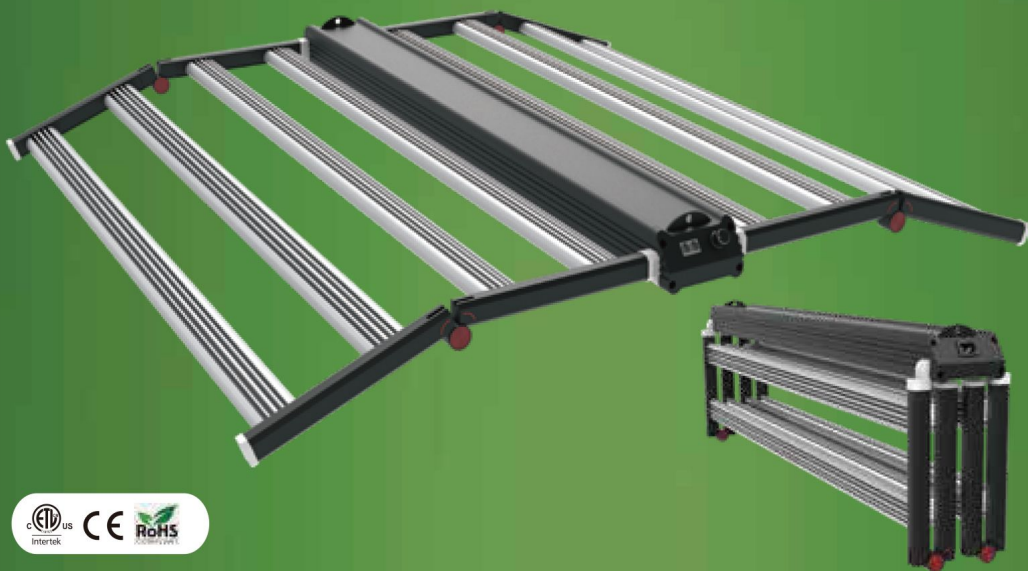
Greenhouse Supplemental Lighting Solution

FEATURES

- The latest generation of foldable LED grow light
- Compact design reduce 40% shipping cost than traditional foldable led grow light
- Flexible bar design ensure more focused light distribution on targeted plants
- 30 kinds of professional spectrum available
- Output up to 1000W with 2.7 umol/J



MODEL F6



The MODEL L offers photon emission across the PAR 400-700nm continuous wavelength range,, balancing energy efficiency with quality of light for desired plant response and human work environment.

DATA SHEET

Model No.	LION-GL1000WF6-08MD1	LION-GL800WF6-08MD1	LION-GL640WF6-08MD1
LED Quantity	(360W+ 20R)*8 bars	(288W +16R)*8 bars	(288W +16R)*8 bars
LED Brand	Epistar	Epistar	Epistar
Lamp size	1170*1129*64MM	1170*1129*64MM	1170*1129*64MM
Driver Brand	Meanwell	Meanwell	Meanwell
Power Factor	>0.95	>0.95	>0.95
PPF efficacy	2.65umol/J	2.6umol/J	2.6umol/J
Light output PPF	2650umol/s	2080umol/S	1664umol/S
Function	0-10V knob dimming	0-10V knob dimming	0-10V knob dimming
Mounting height	>6" (15.2cm) above canopy	>6" (15.2cm) above canopy	>6" (15.2cm) above canopy
Coverage	6ft x 6ft	6ft x 6ft	6ft x 6ft
Housing Color	Black and white	Black and white	Black and white
Material	Aluminum + PC	Aluminum + PC	Aluminum + PC

Remarks: For other requirement on other driver brands or the main core cable length, please consult with our sales Rep.

Residential Growing Lighting Solution

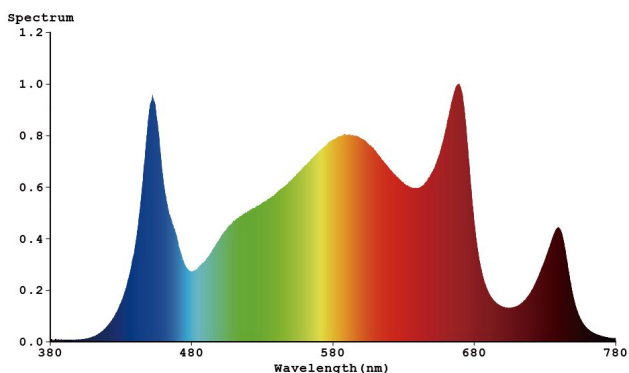


FEATURES

- High efficiency foldable LED Grow Light
- Professional spectrum increase 40% yields of crops
- Pure aluminum passive heat-sink ensures long lifetime
- Perfect solution for Veg and Bloom phase
- Dimmable Power Supply integrated



MODEL F4



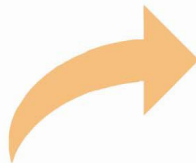
DATA SHEET

Model No.	LION-GL640WF4-08HD1	LION-GL640WF4-06HD1	LION-GL800WF4-08MD1	LION-GL1000WF4-08MD1
LED Quantity	(288W +16R)*8 bars	(288W +16R)*6 bars	(288W +16R)*8 bars	(360W+ 20R)*8 bars
LED Brand	Sanan/Epistar	Sanan/Epistar	Sanan/Epistar	Sanan/Epistar
Lamp size	1159*1137*79MM	1159*1137*79MM	1159*1137*79MM	1159*1137*79MM
Driver Brand	FAHOLD	FAHOLD	Meanwell	Meanwell
Power Factor	>0.95	>0.95	>0.95	>0.95
PPF efficacy	2.6umol/J	2.5umol/J	2.6umol/J	2.65umol/J
Light output PPF	1664umol/s	1664umol/s	1664umol/s	2080umol/s
Function	0-10V knob dimming	0-10V knob dimming	0-10V knob dimming	0-10V knob dimming
Mounting height	>6" (15.2cm) above canopy	>6" (15.2cm) above canopy	>6" (15.2cm) above canopy	>6" (15.2cm) above canopy
Coverage	5ft x 5ft	5ft x 5ft	6ft x 6ft	6ft x 6ft
Housing Color	Black and white	Black and white	Black and white	Black and white
Material	Aluminum + PC	Aluminum + PC	Aluminum + PC	Aluminum + PC

Remarks: For other requirement on other driver brands or the main core cable length, please consult with our sales Rep.

ACCESSORIES

GROW TENT & BAG



Plant Growing Bag

Specifications: 1,2,3,5,7,10,12, 15, 20,25, 30, 34, 40,45,50,65, 75,100, 125,150 gallons

Material: High quality 260g nonwoven fabric

Application: Perfect for many vegetables, hemp and other plants.

Features: breathable fabric allows roots to breathe enough, plants to grow healthily and freely



Plant Growing Tent

Specifications: 16x16x48, 24x24x72, 32*32*72inch, 48*48*78, 48*24*72, 36*36*72, 59*59*78inch and more

Material: 210D, 600D Mylar options, plastic or steel edged connector

Packaging: customization is available, 1 set in a carton, logo printing is available

Features: High durability, 100% light-proof and tear-proof; eco-friendly and easy installation, tool-free assembly



Ordering Overview

HOW TO CHOOSE THE RIGHT LIGHT?



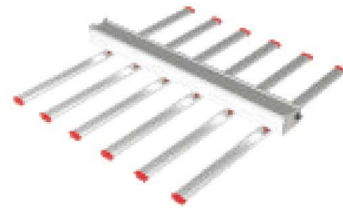
MF4



MF6



MF3



MS4

ACCESSORIES



A

Network cable



B

Input power cable



C

Adjustable rope



D

Hanging cable



E

Hook for grow rack

HOW TO ORDER OUR LIGHTS?

LION- GL 600W E S 4- 06 J D- 0101

1 2 3 4 5 6 7 8 9 10

Explanation of The Model No.:

1	2	3	4	5	6	7	8	9	10
Company name	Grow light	Power	Version	Type	Generation	Q'ty of bar	Driver brand	Function	Chip brand

ORDER CODE	MODEL	SKU	DESCRIPTION
2010001	MODEL S	GL600WMS4-06SD-0101	600W, 2.5umol/J, Epistar LED, SOSEN Driver
2010002	MODEL S	GL600WES4-06JD-0101	600W, 2.4umol/J, Epistar LED, JUSON Driver
2010003	MODEL S	GL720WHS4-08MD-0101	720W, 2.8umol/J, Epistar LED, Meanwell Driver
2010004	MODEL S	GL720WHS4-08MD-0304	720W, 3.0umol/J, Samsung LED, Meanwell Driver
2010005	MODEL S	GL700WHS4-08MD-020101	700W, 2.7umol/J, Epistar LED, Meanwell Driver
2010006	MODEL F	GL600WHF3-08YD-0304	600W, 3.0umol/J, Samsung LED, INVENTRONICS Driver

For more info, pls consult our sale rep.

Successful Cases



The farm is located in Oklahoma State, covering an area of 10000 square feet. It's an indoor warehouse. They chose to use our first generation grow lights for the whole phases of cannabis growth, including seedling, vegetative and flowering.



The Greenhouse is in Toronto, Canada, with 8 small rooms. Each room covers 2500 sq.ft. Our customer gave a trial order of 100 pcs Model F grow lights. Due to cold environment, the growers used our LED lights at intervals of HID lights to increase some heat during freezing winter.



This is a licenced indoor cannabis warehouse. It adopted our MODEL S products at vegetative and flowering stages. The grower gave us a positive feedback that the LED lights increased 1/3 of yield compared with traditional HPS lights.



This is a medium indoor farm located in L.A. Client firstly test sample of our Model S4 before apply them for the whole farm area. From the photo, the cannabis grow quite wonderful apparently. After months of test, client purchased few hundreds pcs of Model S4 800W from us.

