



Model **E** -M/E series **LED GROW LIGHT**

0-10V dimming Standard

APPLICATION

The 600 Watt LED grow light full spectrum is a high efficiency LED designed for multi or single level cultivation of cannabis and other crops that require high light level. It is widely used in:

- *vertical farming*
- *indoor farms*
- *green houses*
- *individual home grow tents*



FEATURES

- Slim design that is foldable up to 180 degrees can make 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;
- Low investment brings high yield on the crop or cannabis growth;
- Optimized spectrum white plus high efficiency 660nm Red for all phases of plant growth and production;
- 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;

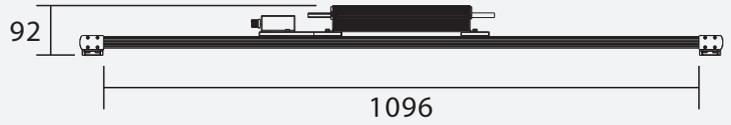
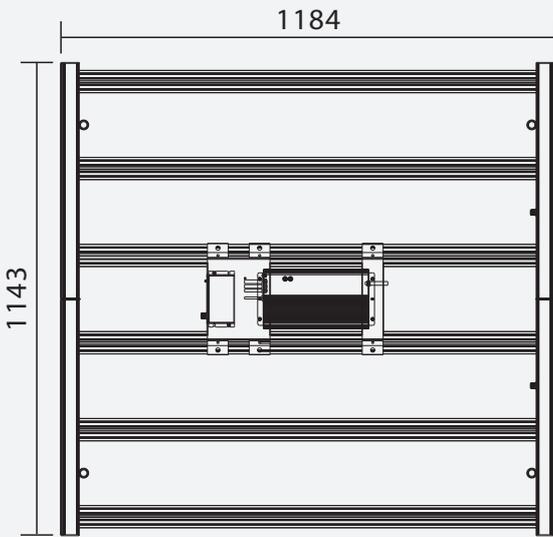
SPECIFICATION

Model No. ¹	LION-GL600WMF3-06SX	LION-GL600WEF3-06SX
Lamp size	1184*1143*29mm	1184*1143*29mm
Light source	LED	LED
LED quantity	(340W+ 16R)*6 bars	(340W +16R)*6 bars
LED brand	Epistar	Epistar
Spectrum	Full spectrum White+660nm red	Full spectrum White+660nm red
AC input voltage	100-277V AC, 50/60 Hz	100-277V AC, 50/60 Hz
Amperage	2.17 @277V	2.17 @277V
LED drive brand ²	SOSEN	SOSEN
Power factor	>0.95	>0.95
PPF efficacy	2.5umol/J	2.4umol/J
Light output PPF	1500umol/s	1440umol/S
Light distribution	120°	120°
Thermal management	Passive	Passive
Max. ambient temp.	45°C /113°F	45°C /113°F
Function ³	0-10V(optional)	0-10V(optional)
Mounting height	>6" (15.2cm) above canopy	>6" (15.2cm) above canopy
Coverage	5ft x 5ft	5ft x 5ft
Housing color	Black and silver	Black and silver
AC main cord ⁴	1.5M(5'') long with plug	1.5M(5'') long with plug
Material	Aluminum + PC	Aluminum + PC
IP rating	Indoor wet location	Indoor wet location
Lifetime	50,000hrs	50,000hrs
Warranty	3 years warranty	3 years warranty

Remarks:

1. The "X" in the Model Number could be N for non dimmable and D for dimmable function.
2. For other requirement on driver brand, please consult with our sales rep.
3. 0-10V dimming driver is used for the items but it can only work with our controller and dimmer, which should be purchased separately.
4. We provide America Plug as standard. For other requirement, please consult with our sales rep.

DIMENSION(mm)



Unit:mm

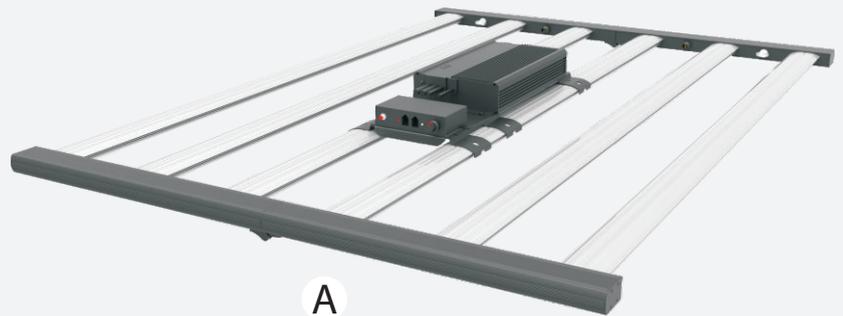
FIXTURE & ACCESSORIES

Included:

- A. LED grow light fixture x1
- B. Driver x1
- C. Driver holder x1
- D. Input Power cable x1
- E. Steel hanging cable x2
- F. Rope Ratchet x2

Optional:

- G. Knob dimmer x1
- H. External RJ14 Network cable x1



B



C



D



E



F



G



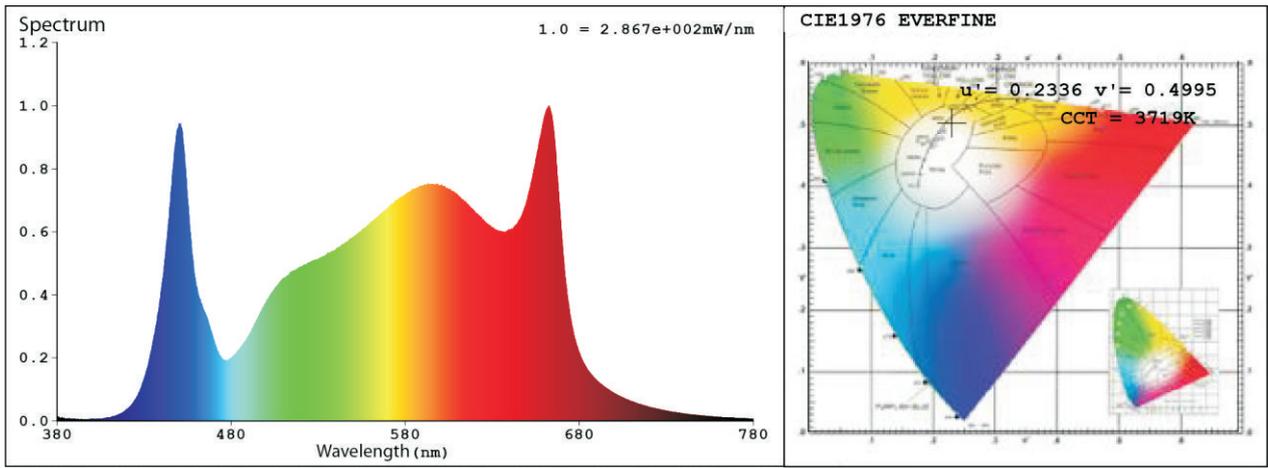
H

180 DEGREE FOLDABLE

The foldable design feature can save your manpower and shipping cost.



SPECTRUM



SPECTRUM INSTRUCTION

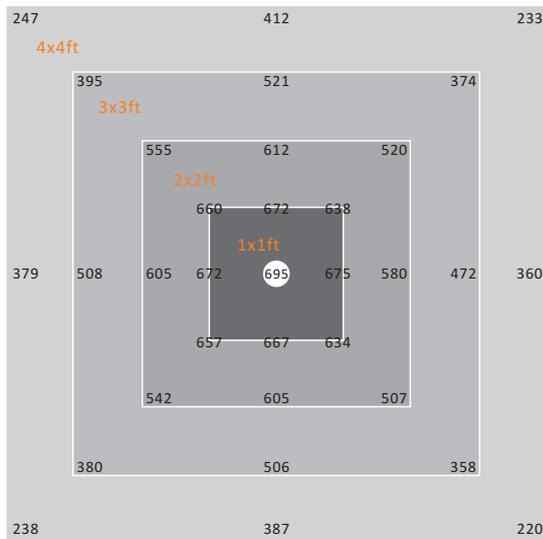
280-315nm	UVB ultraviolet light which is harmful for the plants and may cause the colors to fade
215-380nm	Range of UVA ultraviolet light which is not harmful for the plant growth.
380-400nm	Visible light spectrum which helps the plants on processing chlorophyll absorption.
400-520nm	Including violet, blue, green bands, peak absorption by chlorophyll, big influence on photosynthesis-Vegetative growth.
520-610nm	This includes green, yellow and orange bands, which are absorbed by plants.
610-720nm	Red band, large amount of absorption by chlorophyll occurs, strong influence on photosynthesis- Flowering and budding
720-1000nm	Small amount of the spectrum could be absorbed for plants, enhancing cell growth.

Below is the recommendation for adjusting the mounting height between the LED grow light and the plants according to the growing stage.

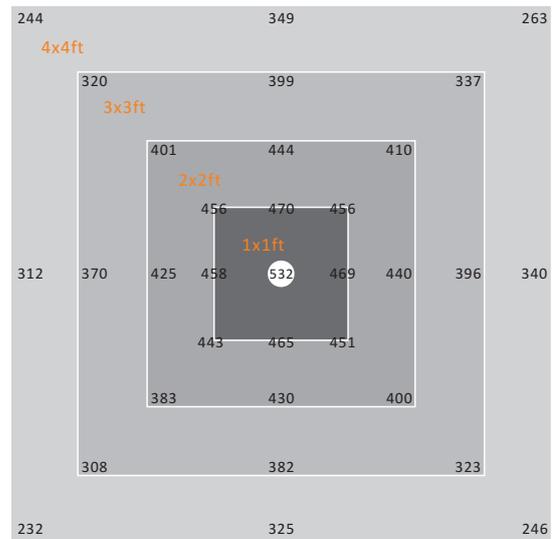
Seedling Height 150-160cm	Vegetative Height 120-140cm	Flowering to Harvest Height 50-70cm
------------------------------	--------------------------------	----------------------------------------



PPFD DISTRIBUTION



PPFD from a height of 24 inch(60cm)



PPFD from a height of 36 inch(90cm)

* The PPFD result is based on LION-GL600WMF3-06SX, tested in a real growing environment. The data may vary in other condition, such as the height the light fixture is placed, the ambient environment etc.

SMART CONTROL SYSTEM

This master controller and the knob dimmer is not a standard accessory. please make sure the product you choose is equipped with the accessory.

0-10V dimming feature can make your lighting system much smarter and easier. A group of up to 100 LED grow light fixtures can be connected the two Rj11 ports of the controller.

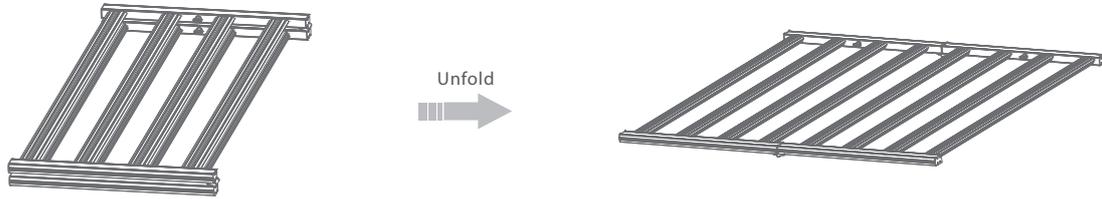


1. Switch the rotary Knob on all our LED grow light fixtures to "EXT"(external controller).
 2. Plug the Rj11 end into the port of the master controller(not included with our light).
 3. Plug the other Rj11 end of the controller cables into the input of a Rj11 splitter(the controller on each fixture). Use an interconnect cable to connect output of the Rj11 splitter to the input of the Rj11 port of the LED fixture.
 4. Repeat this process to connect up to 100 LED fixtures per group.
- For more details of how to use the master controller, please consult our sales.

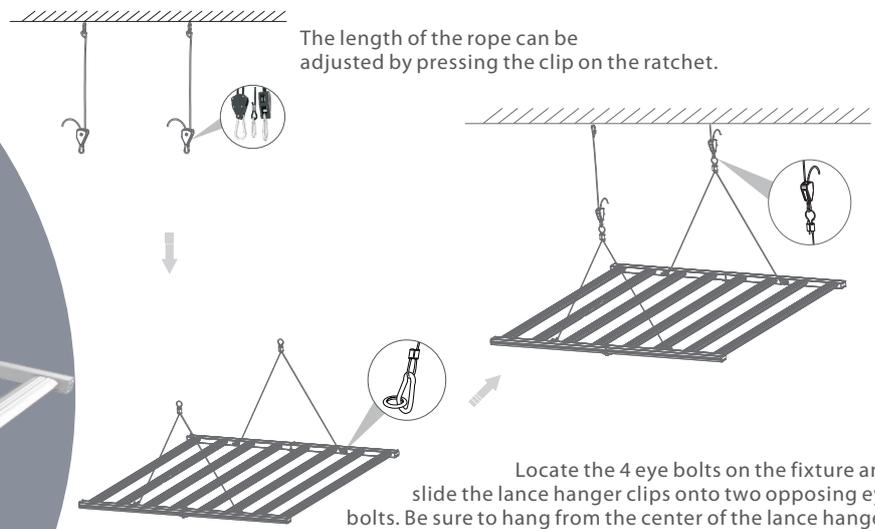
INSTALLATION INSTRUCTION

Be sure that the light fixture is unplugged from the power source before installation.

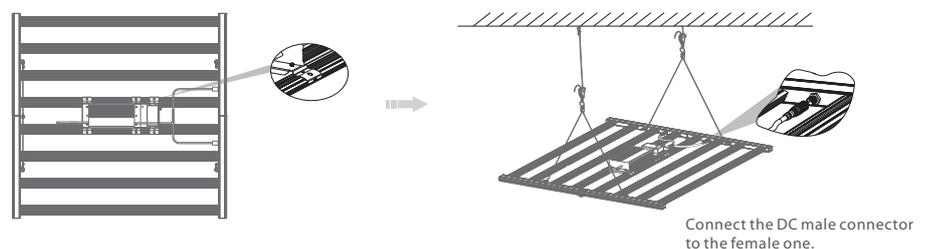
STEP 1: Take out the light fixture from the box, unfold it and place it horizontal at 180 degrees. At the same time, Prepare the driver for installation, which comes with the light fixture in another separate box.



STEP 2: Fix the rope in/on the ceiling, beam or somewhere else. Make sure to fix the rope to something that can hold the weight of the LED light fixture.

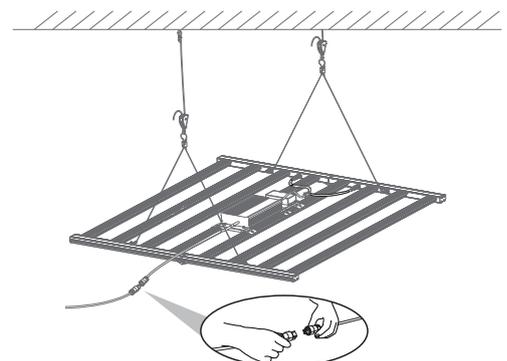


STEP 3: Clip the driver holder on the bars or hang it on the racks. (Normally the driver has been fixed onto the driver holder before shipment). And connect the DC male connector to the female one on the light fixture.

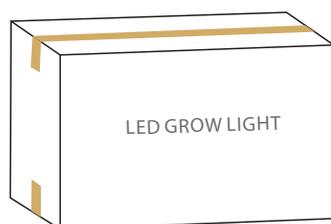


STEP 4: Plug the RJ11 end into the port of the master controller. Use an interconnect network cable to connect Rj11 splitter to another on the LED fixture. Please see more details on the Master Controller User Manual.

STEP 5: Connect the AC connectors, plug it and power the fixture on. Then installation is completed.



PACKAGE



Box	QTY	Size	N.W/CTN	G.W/CTN
Lamp box	1 PC	128x16x68cm	10.6KG	8.5KG
Driver box	4 PCS	58*43.5*29.5CM	18.8KG	21.5KG

MAINTENANCE

- Do not clean the LED fixture with detergents, abrasives or aggressive substances.
- Please regularly check the LED fixture for dust or dirt buildup. Clean if necessary. Contamination may cause overheating and decreased performance. Clean the outside of the LED fixture using a dry or damp cloth.
- Regularly check the cable connections of the LED fixture to ensure it is undamaged.

STORAGE AND DISPOSAL

- This LED fixture is to be stored at an ambient temperature of to 15-60 C in a dray and clean environment.
- This LED product must not be disposed of as standard waste, it is to be collected or brought to a recycling center for proper disposal and environmental treatment.