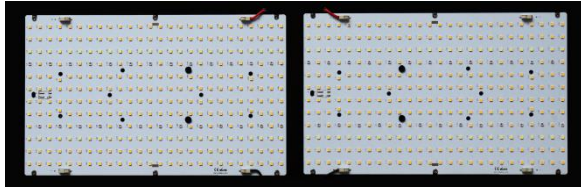


Description:

RX-LM301-312-K2 High PAR output LED grow light module kit for medicinal plant in tent, large size module 24.8" x 7.9" (630x200mm), designed for balanced growth, using Samsung LM301 high efficiency LED chips, additional 660nm spectrum, more effective medicinal plant-specific spectrum. This product is the ideal LED grow module for medical plants. RX-LM301-312 can significantly improve the quality and harvest. Suitable for basement planting, plant tent planting, experimental planting and greenhouse planting.



1. High-efficiency plant light module, with PPF efficiency up to 2.8μmol/J
2. Samsungs LM301 chips, efficient and reliable
3. Additional 660nm deep red spectrum chips, light efficiency up to 3.2μmol/J, suitable for plant growth
4. Size: length 24.8" 630mm, width 7.9" 200mm, height 2.7" 68mm
5. Customize the size, power, spectrum, PAR output, PPFD output you need.
6. Input voltage: AC100~277V, Maximum power: 240W
7. Service life: 50,000 hours marijuana (cannabis)
8. CE RoHS FCC

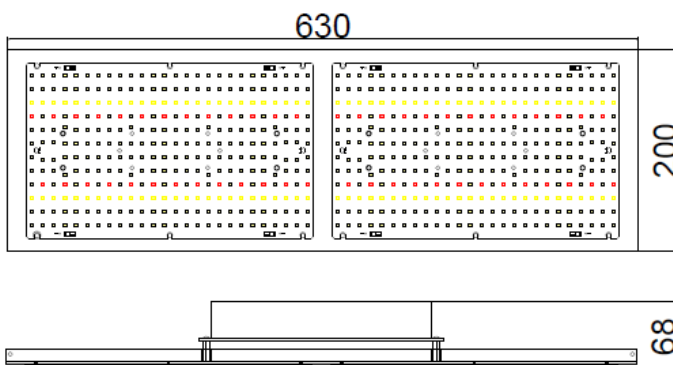
Model	Dimension LxWxH	Spectral Wavelength	Photon PPFD μmol/m²/s	Luminous flux Radiation Power	Power Test Input	Comment
RX-LM301-312-K 2	630x200x68mm* 24.8"x7.9"x 2.7"	S10	1397.6μmol @0.3m 93525.5Lx	Flux: 43409Lm PPF:647.15μmol/s	240W	24" x24" grow tent Meanwell HLG-240H-36B driver
			907.66μmol @0.4m 60815.2Lx			
			625.6μmol @0.5m 41951.7Lx			

Max working temperature: Tc 28 °K, Working temperature: - 30 °C ~ 40 °C, Lifespan: 50,000 hours (Note: Ta 25 °C)

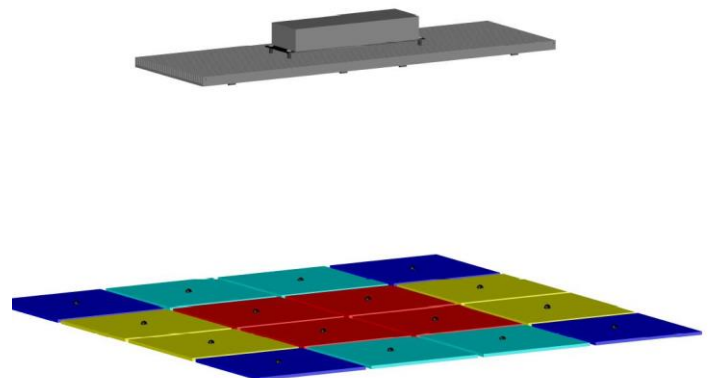
Tolerance range for optical and electrical data: ±10 %. Beam angle 120°, Recommended irradiation distance: 0.3~0.5m; * Size is heat sink size

The above data is for reference only!

Dimension:



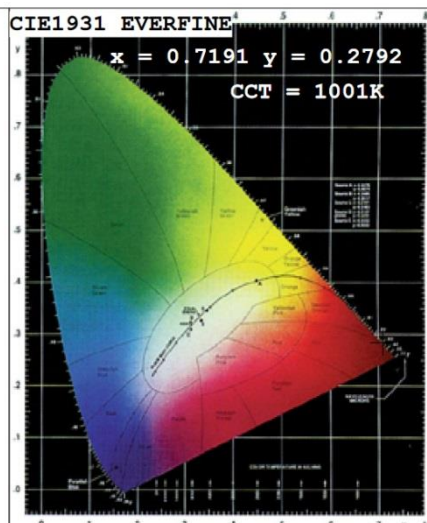
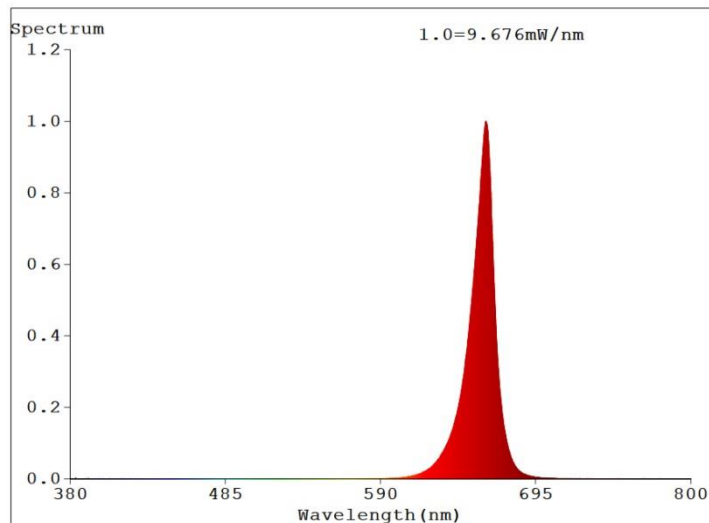
Unit: mm



Recommended Max distance 12" ~20" (0.3~0.5m)

Max area 2ft x 2ft (0.6x0.6m)

- High efficiency and energy saving, Samsung LM301b led chip, add Ultra-high efficiency deep red 660 nm , efficiency up to 3.4μmol/J



Color Parameters:

Chromaticity Coordinate: $x=0.7191$ $y=0.2792$ $u'=0.5855$ $v'=0.5115$

CCT=1001K (Duv=-0.1383) Dominant WL: $\lambda_d = 642.3\text{nm}$ Purity=99.5%

Ratio: R=98.6% G=1.4% B=0.0% Peak WL: $\lambda_p = 661.3\text{nm}$ FWHM=15.8nm

Render Index: $R_a=31.5$ AvgR=35.0

R1 =16 R2 =82 R3 =37 R4 =0 R5 =16 R6 =85 R7 =16

R8 =0 R9 =0 R10=83 R11=7 R12=81 R13=40 R14=62 R15=0

Photo Parameters:

3.4μmol/J

Flux = 11.29 lm Eff. : 36.60 lm/W $\Phi_e = 192.7\text{ mW}$

Scotopic: 0.43088 S/P: 0.038154

Photosynthetic: PPF: 1.0551 μmol/s PAR WATT: 192.26mW (400-700nm)

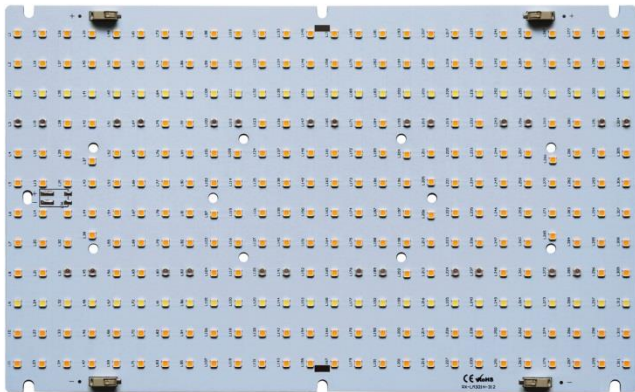
Electrical parameters:

V = 2.0585 V I = 0.1499 A P = 0.3086 W PF = 1.000

LEVEL: Class1 WHITE: OUT

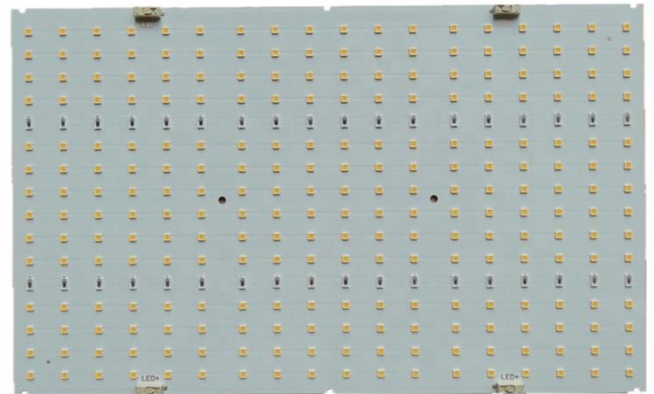
efficiency up to 3.4μmol/J

- Each board uses 321 beads, more than the number of beads used in other companies' traditional boards



Koray used 312 led chips

vs



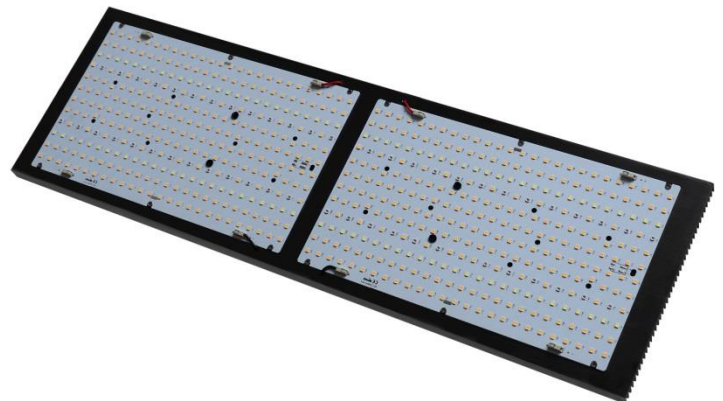
The other suppliers brand used 288 led chips

LM301-312 plant light module uses 312 high-efficiency led chips, using Samsung LM301 led chip and 660nm deep red leds, More effective spectra for medicinal plants, full spectrum is Ideal Medicinal plants.

- Light science design, higher light uniformity

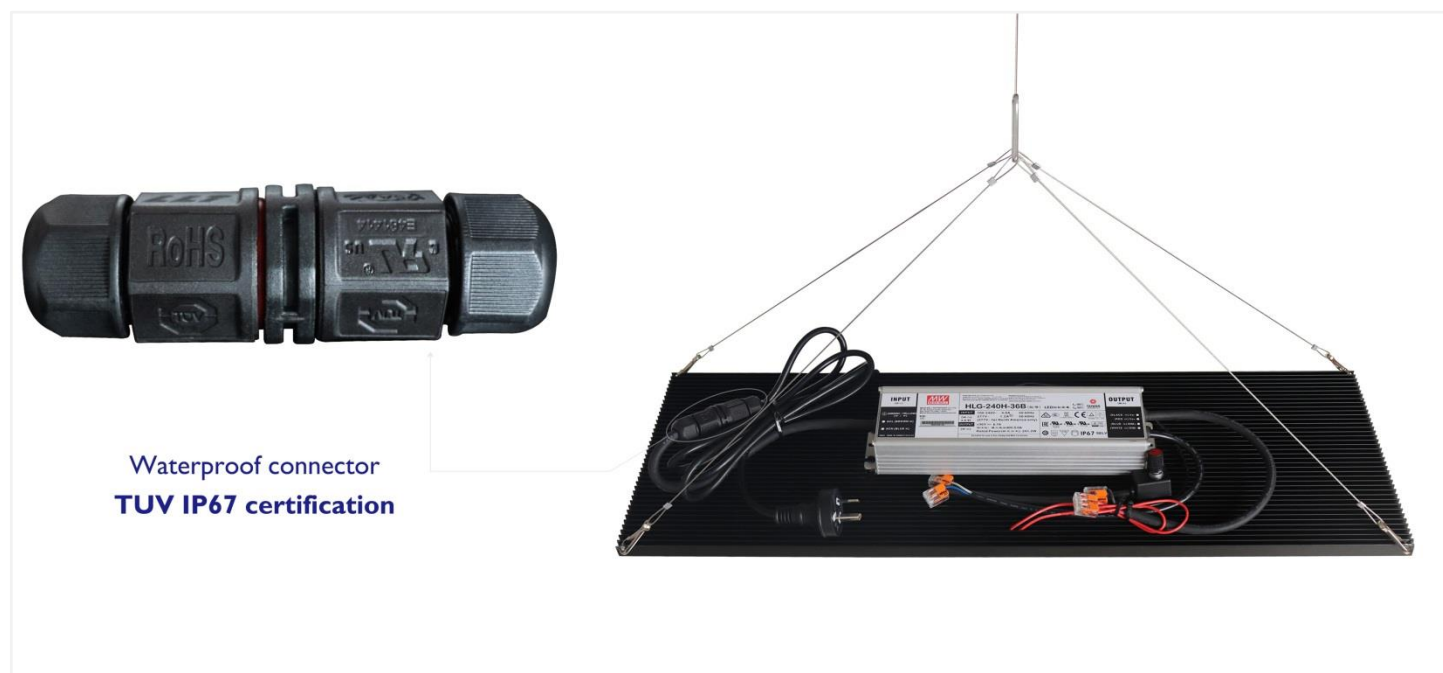


Uniform illumination, higher average PPFD



Light science design, PPF efficiency is higher, average PPFD is higher

- Waterproof connector,TUV IP68, safe and reliable



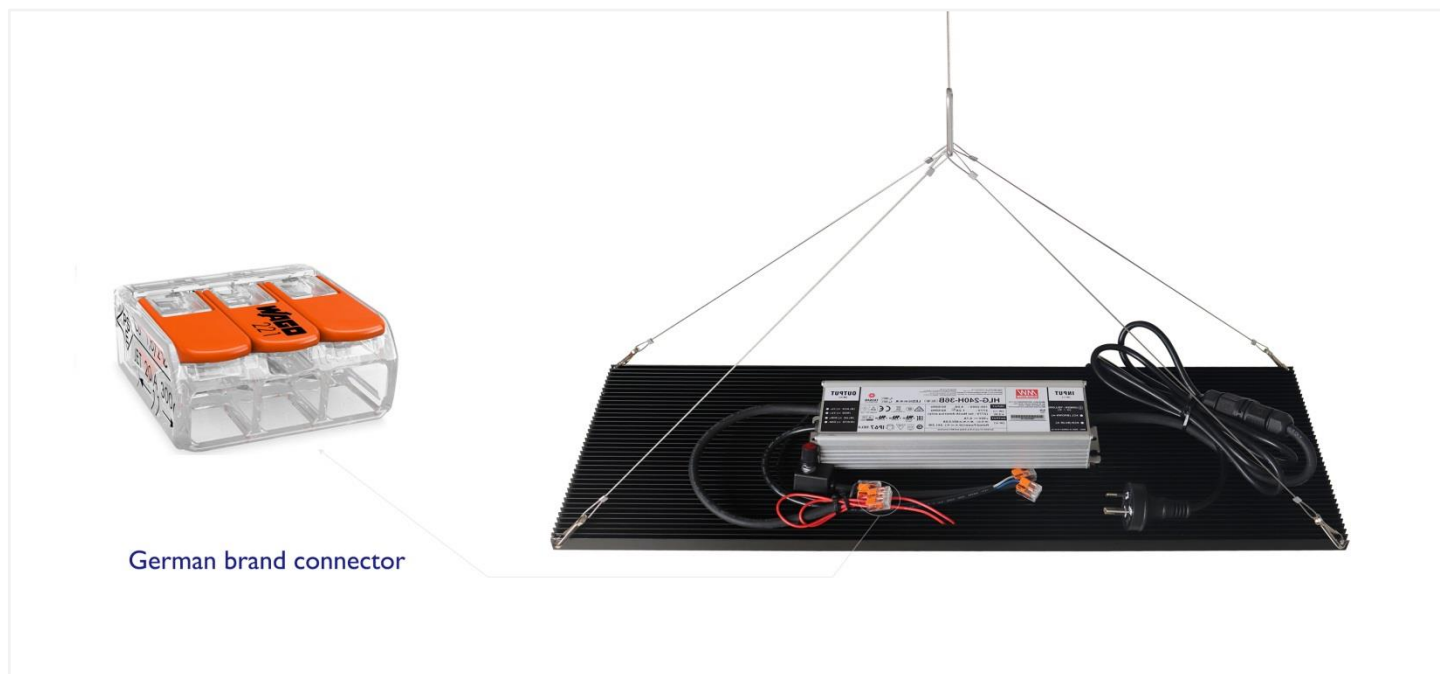
AC input using waterproof connector which is safer, output 36V safe voltage without electric shock risk.

- German Brand WAGO2060 and WAGO221



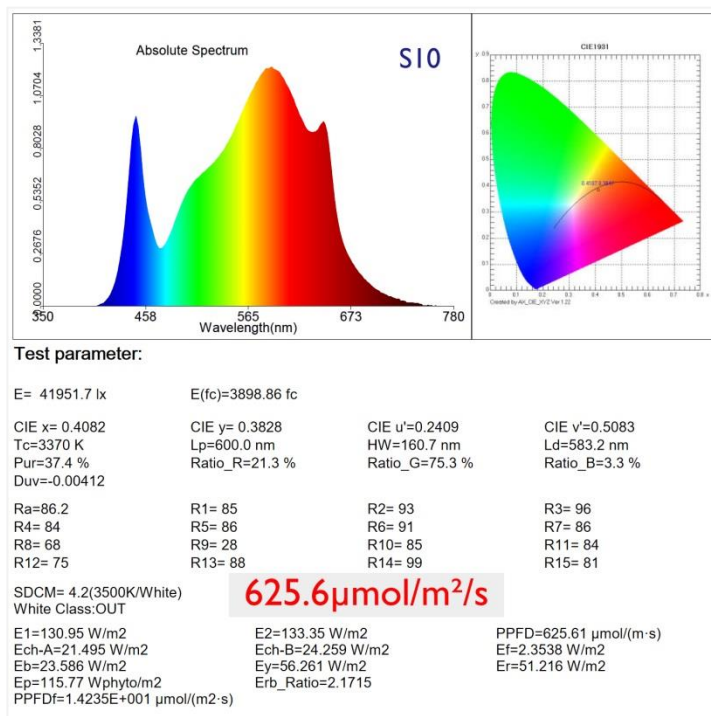
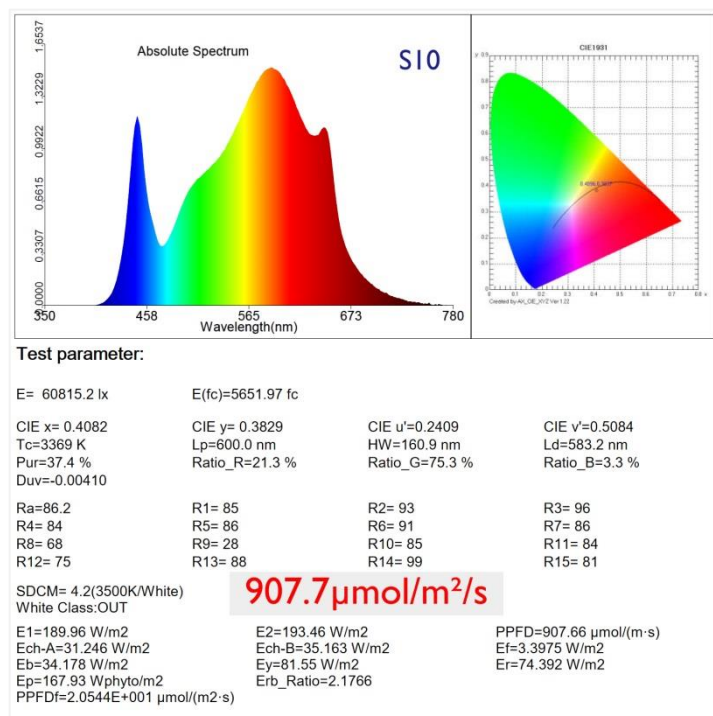
Using WAGO2060, simple installation and high reliability

- German Brand WAGO2060 and WAGO221



Wire connection, using German brand WAGO 221 series connector, safe and reliable

- RX-LM301-312-K2 PPFD test



RX-LM301-312-K2 H40 PPFD Test 907.7 μmol/m²/s

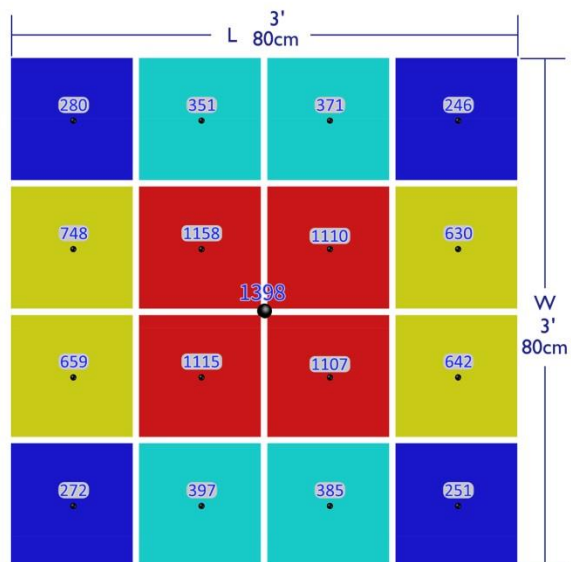
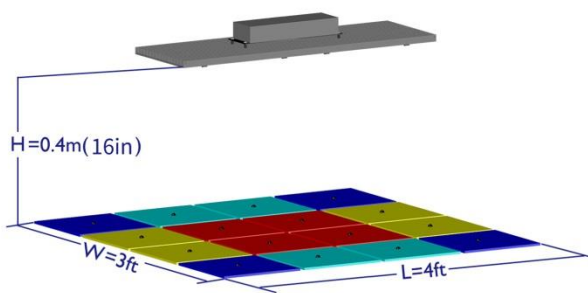
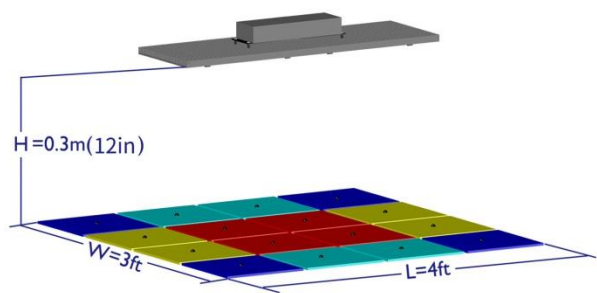
RX-LM301-312-K2 H50 PPFD Test 625.6 μmol/m²/s

● RX-LM301-312-K2 Temperature-test

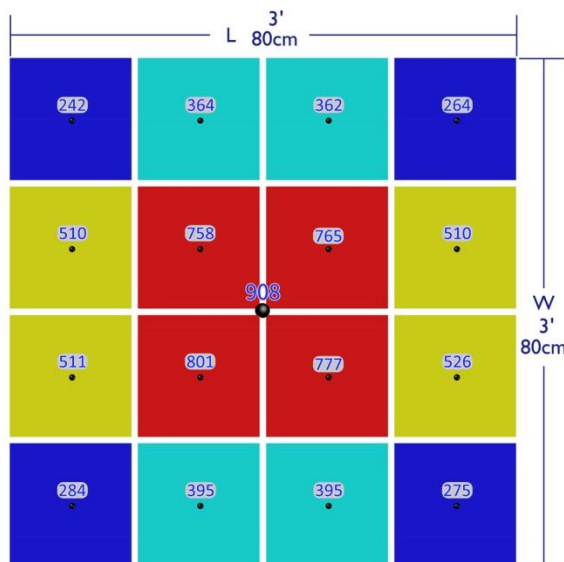
Measurements		
EI1	Max	48.9 °C
	Min	31.3 °C
	Average	35.9 °C
Sp1		39.2 °C
Sp2		48.4 °C
Sp3		48.6 °C
Sp4		40.9 °C
Sp5		44.0 °C
Sp6		31.4 °C
Sp7		39.3 °C
Sp8		34.7 °C
Sp9		35.0 °C
Parameters		
Emissivity		0.95
Refl. temp.		20 °C



● RX-LM301-312-K2 PPFD test (Open Environment Testing (No reflection test))



● PPFD Test Point Average: 654.1μmol/m²/s

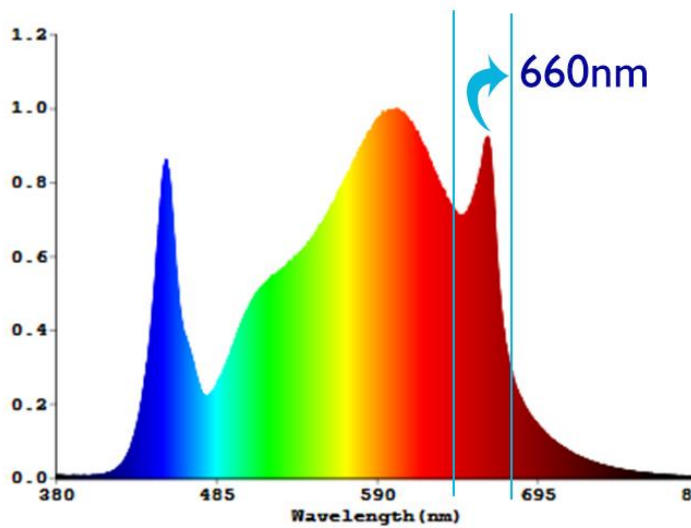


● PPFD Test Point Average: 512.2μmol/m²/s

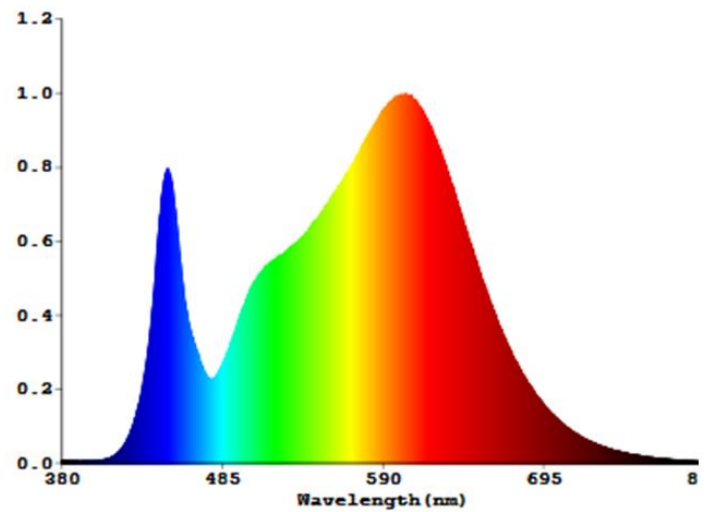
1. RX-LM301-312-K2 0.4m (16 in) high PPFD test, Center point PPFD: 1398μmol/m²/s, Average PPFD: 654.1μmol/m²/s
2. RX-LM301-312-K2 0.5m (20 in) high PPFD test, Center point PPFD: 908μmol/m²/s, Average PPFD: 512.2μmol/m²/s

if you need the data testing in tent, please contact us

- Designed for balancing plant growth ,full spectrum grow light for horticulture

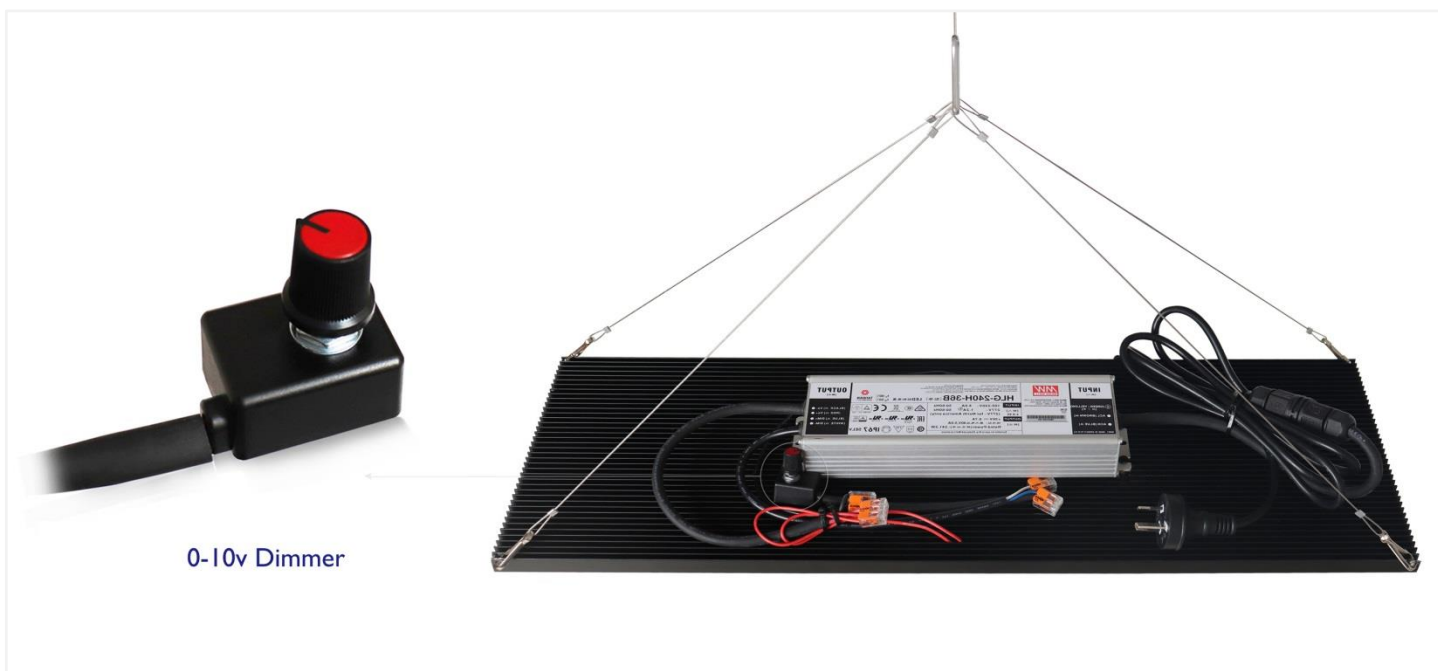


RX-LM301-S10 Spectrum Recommended Extra High Efficiency Deep Red Spectrum



Low cost spectrum Without deep red 660nm led chip

- Dimmer(free)



Free dimmers 0-10V dimmer, note that the dimmer is not waterproof. If you need to connect to other dimming devices, you can cut the connecting wires, the blue wire is DIM+, and the gray wire is DIM-

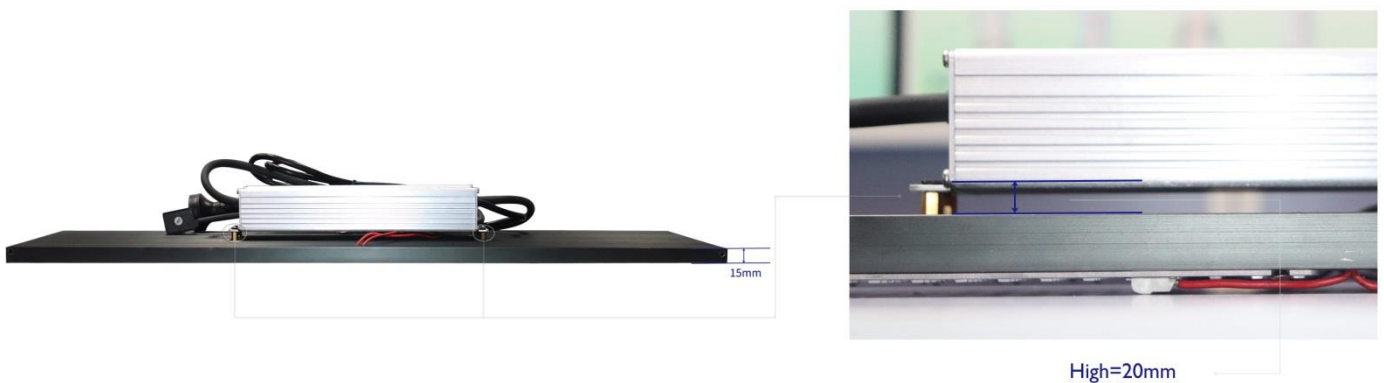
- Optional dimmer



Optional dimmer,

In particular, if you choose this dimmer, you will not be equipped with waterproof connectors.

- Use one-piece heat sink, the thickness of the heat sink is up to 15mm, the height of the power supply step is 20mm, and the heat dissipation effect is better.



Stepped power supply for better heat dissipation

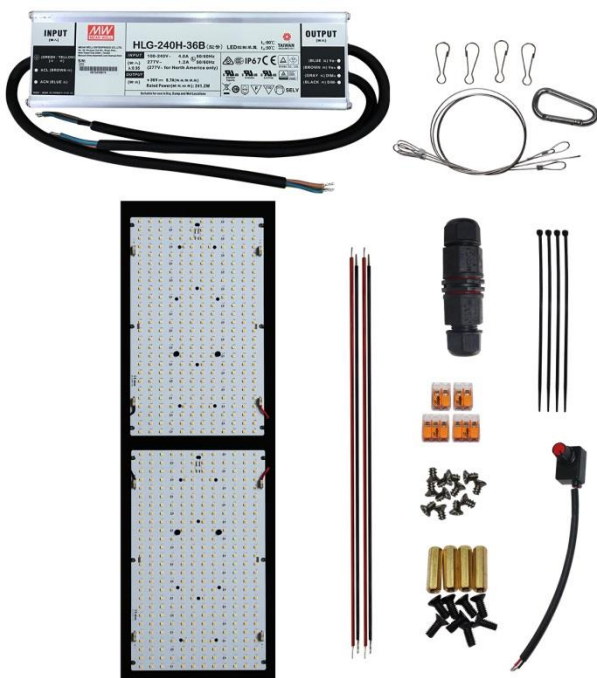
RX-LM301-312-K2 plant light module uses integrated heat sink, grid design, stepped power supply, better heat dissipation

● Plug selection



Plug in the power supply and choose the right plug when ordering

● Product List



- 1、 LM301-312 grow light module: 2pcs
- 2、 Heat sink: 1pcs
- 3、 Meanwell driver HLG-240H-36B: 1pcs
- 4、 0-10V dimmer: 1pcs
- 5、 Connecting wires: 4pcs
- 6、 AC plug cable: 1pcs
- 7、 connector WAGO 221-412: 2pcs
- 8、 connector WAGO 221-413: 2pcs
- 9、 Waterproof connector: 1pcs
- 10、 Hexagon pillar: 4pcs
- 11、 M4 Copper Column Screw: 8pcs
- 12、 M3*5 tapping screw: 12pcs

- Free Accessories



Stainless steel ring buckle: 4pcs



Wire rope hook: 4pcs



snap hook: 1pcs



Tie band: 4pcs

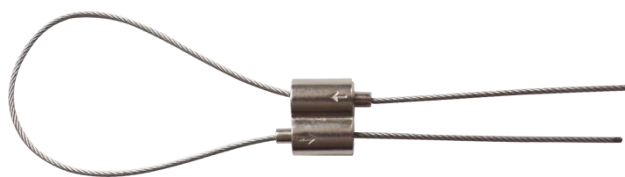
- Other optional accessories (Need additional purchase)



Wire rope hook



1.5m Steel cable



Side Exit Grippers



Nylon rope hook