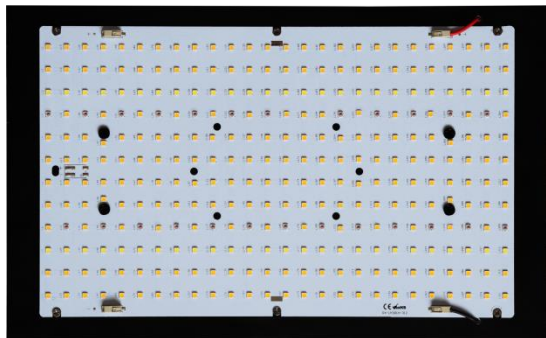


Description:

RX-LM301-312-KI high PAR output LED grow light module kit for medicinal plant in tent, designed for balanced growth,using Samsung LM301 high efficiency LED chips,additional 660nm spectrum,more effective medicinal plant-specific spectrum.This prodeut is the ideal LED grow moudle 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 3.0 μ mol/J
2. Samsumgs LM301 chips, efficient and reliable
3. Additional 660nm deep red spectrum chips, light efficiency up to 3.2 μ mol/J, suitable for plant growth
4. Aluminum substrate size:11.25" x6.88" (286x175mm)
5. New radiator. It is 5mm higher than the ordinary 10mm radiator,
6. Ensure low temperature rise
7. Customize the size, power, spectrum, PAR output, PPFD output you need.
8. Input voltage: 32~37V,Input current: 1.5~3.9A,Maximum power: 150W
9. Service life: 50,000 hours
10. CE RoHS FCC

Model	Dimension LxWxH	Spectral Wavelength	Photon PPFD μ mol/m ² /s	Luminous flux Radiation Power	Power Test Input	Comment
RX-LM301-312	286x175x68mm 11.3"x6.9"x 2.7"	S10	454.7 μ mol @0.3m 30837Lx	10861Lm 162 μ mol/s	1.6A @31.5V	50W 3.2 μ mol/J
			727.5 μ mol @0.3m 49248Lx	17348Lm 259 μ mol/s	2.6A @32.3V	84W 3.1 μ mol/J
			1069.8 μ mol @0.3m 72320Lx	25300Lm 378 μ mol/s	3.9A @33.1V	2.9 μ mol/J Need ADD heat sink
RX-LM301-312-KI	325x200x68mm 12.8"x7.9"x 2.7"	S10	1606.5 μ mol @0.2m 107467.4 Lx	24378Lm 366 μ mol/s	126W AC230V	Includes heatsink & Meanwell HLG-150H-42B
			821.2 μ mol @0.3m 54928.2Lx			

Surface temperature rise Tc75°K , Lifespan: 50,000 hrs (Note:Ta ≤ 55 °C)

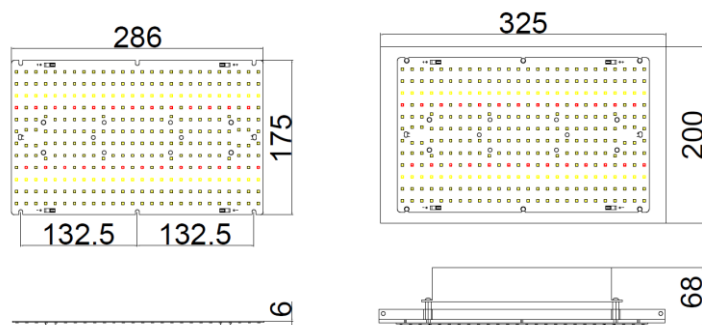
Tolerance range for optical and electrical data: ±10 %.

Illumination angle is 120° Recommended irradiation distance 0.2-0.5 meters.

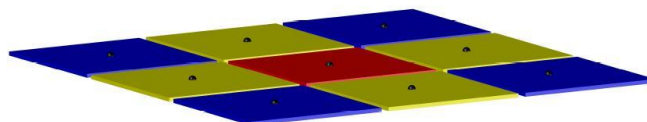
*The size is the heatsink profile size.

The above data is for reference only!

Dimension:



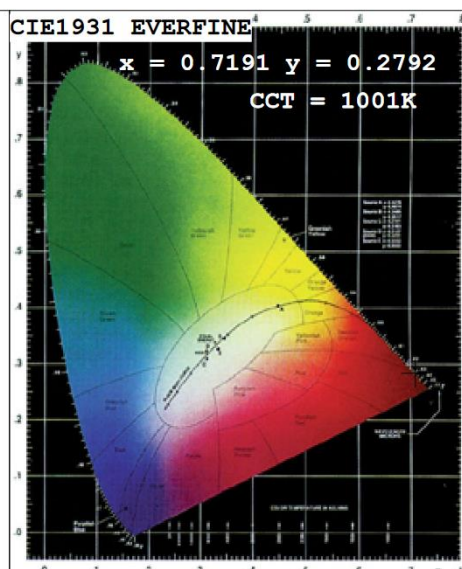
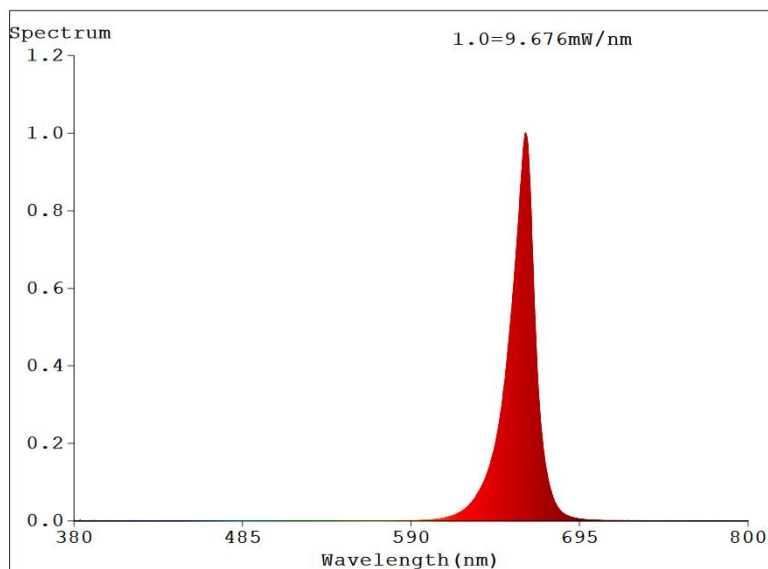
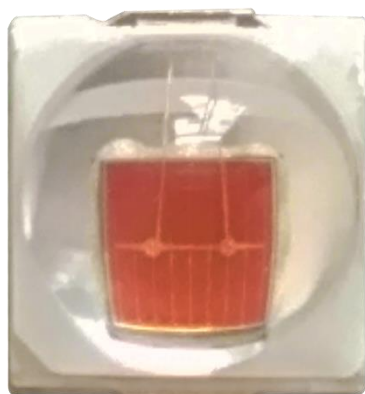
UNIT:mm



Recommended Max distance 12" ~20" (0.2~0.5m)

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:Ld =642.3nm Purity=99.5%

Ratio:R=98.6% G=1.4% B=0.0% Peak WL:Lp=661.3nm FWHM=15.8nm

Render Index:Ra=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 Fe = 192.7 mW

Scotopic:0.43088 S/P:0.038154

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

Electrical parameters:

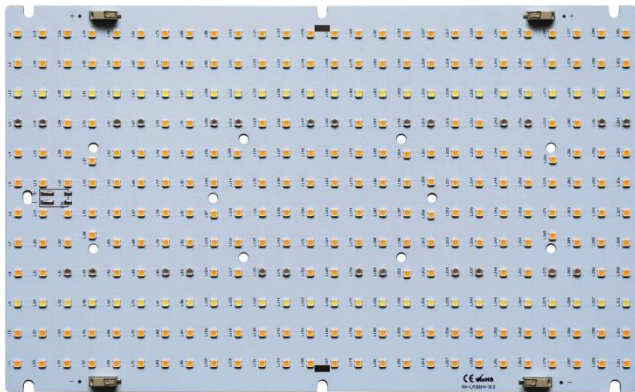
V = 2.0585 V I = 0.1499 A P = 0.3086 W PF = 1.000

LEVEL:Class1

WHITE:OUT

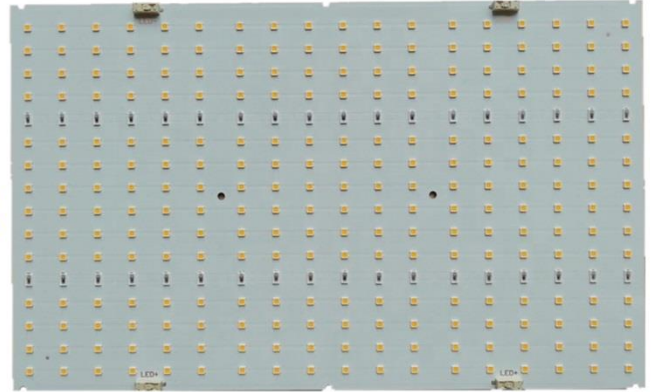
efficiency up to 3.4μmol/J

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



Koray used 312 led chips

vs



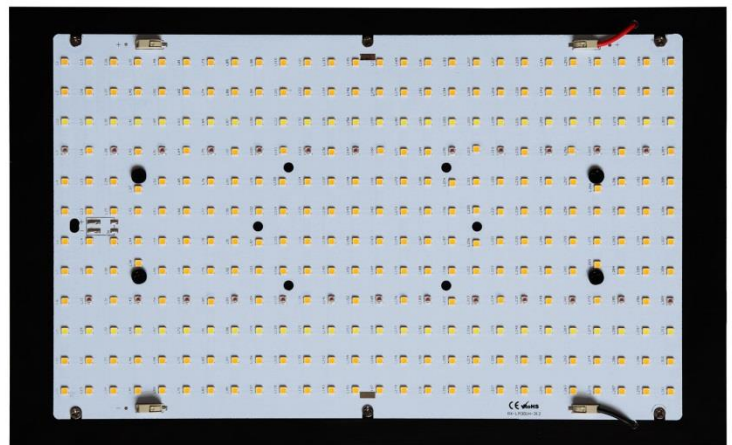
The other suppliers brand used 288 led chips

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



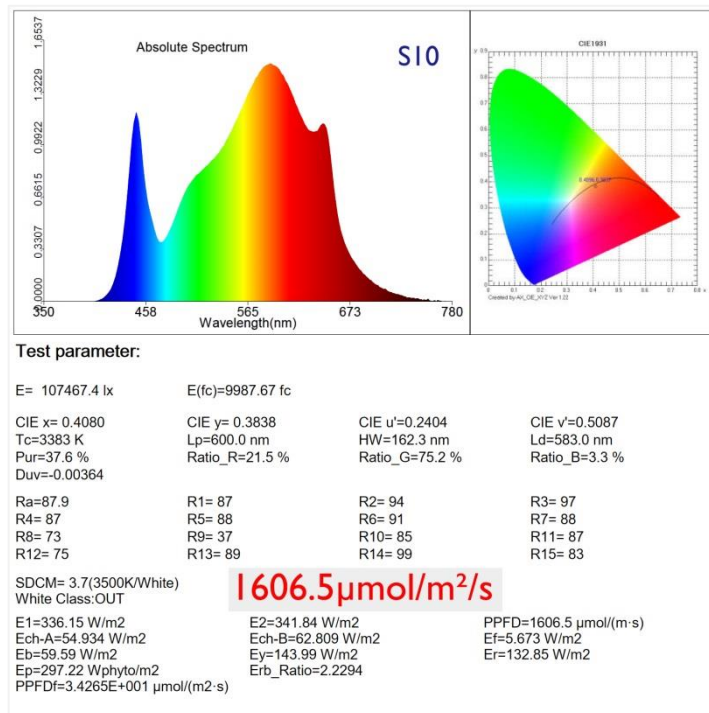
Using WAGO2060, simple installation and high reliability

● German Brand WAGO2060 and WAGO221

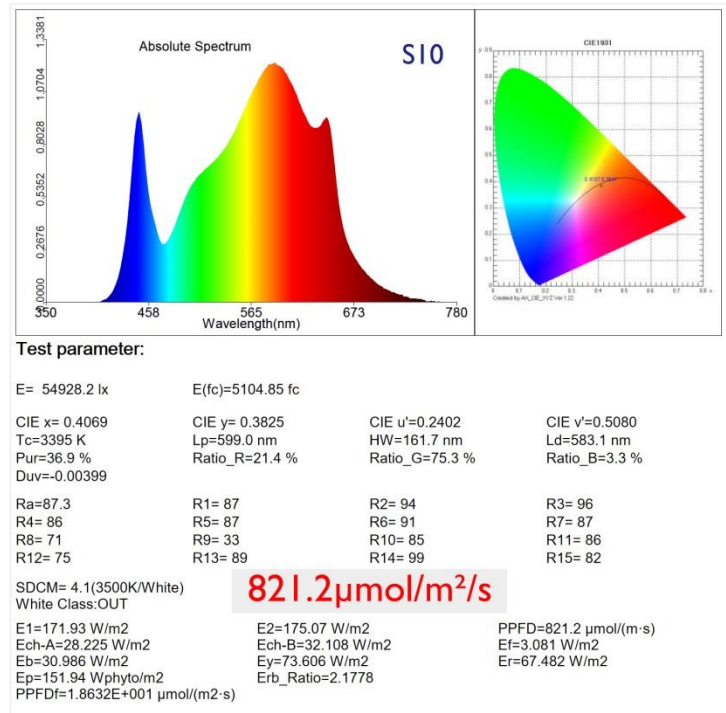


Wire connection, using German brand WAGO 221 series connector, safe and reliable

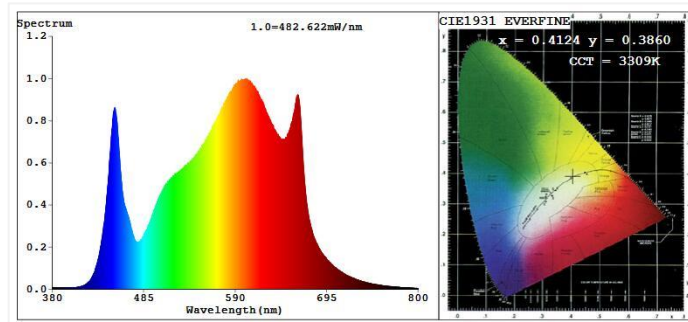
● RX-LM301-312-KI PPFD test



RX-LM301-312-KI H20 PPFD Test 1606.5 $\mu\text{mol}/\text{m}^2/\text{s}$



RX-LM301-312-KI H30 PPFD Test 821.2 $\mu\text{mol}/\text{m}^2/\text{s}$



Color Parameters:

Chromaticity Coordinate: x=0.4124 y=0.3860/u'=0.2423 v'=0.5103
 CCT=3309K(Duv=-0.0035) Dominant WL:Ld =583.1nm Purity=39.6%
 Ratio:R=21.7% G=75.2% B=3.2% Peak WL:Lp=601.6nm FWHM=158.8nm
 Render Index:Ra=87.0 AvgR=82.8
 R1 =86 R2 =93 R3 =97 R4 =86 R5 =87 R6 =91 R7 =87
 R8 =70 R9 =32 R10=85 R11=86 R12=75 R13=88 R14=99 R15=82

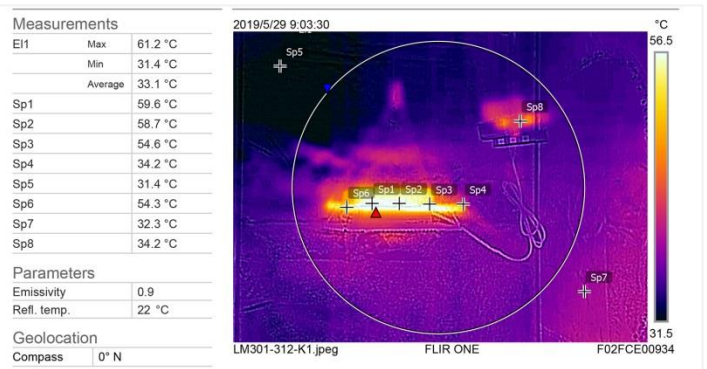
Photo Parameters:

Flux = 25300 lm Eff. : 196.00 lm/W Fe = 80.80 W
 Scotopic:38251 S/P:1.5119
 Photosynthetic:PPF:378.31umol/s PAR WATT:79009mW(400~700nm)

Electrical parameters:

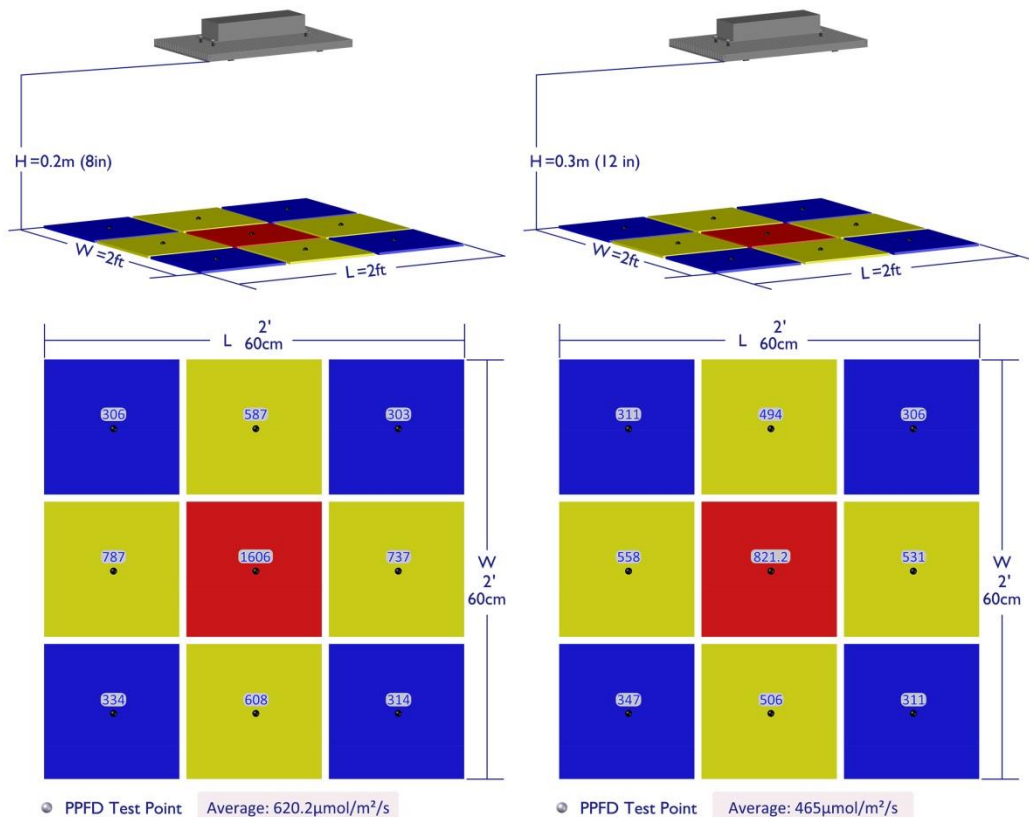
V = 33.110 V I = 3.899 A P = 129.1 W PF = 1.000
 LEVEL:OUT WHITE:ANSI_3500K

RX-LM301-312-K1 PPF 129W Test



RX-LM301-312-K4 Temperature-test

● RX-LM301-312-K1 PPF test (Open Environment Testing (No reflection test))

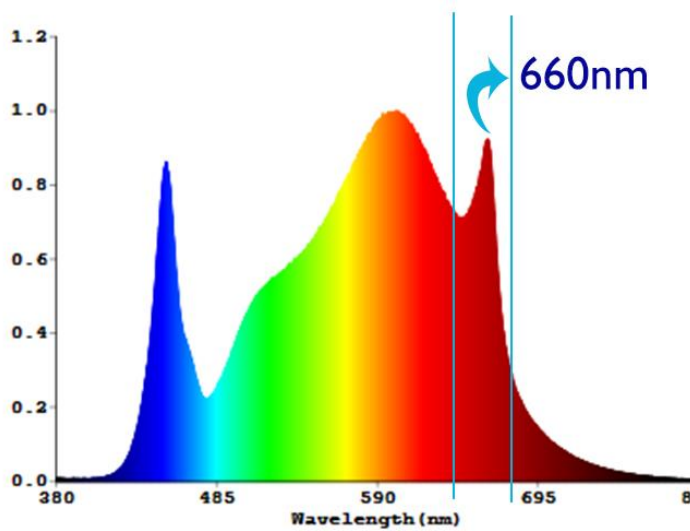


1. RX-LM301-312-K1 0.2m (8 in) high PPF test, Center point PPF: 1606μmol/m²/s, Average PPF: 620.2μmol/m²/s

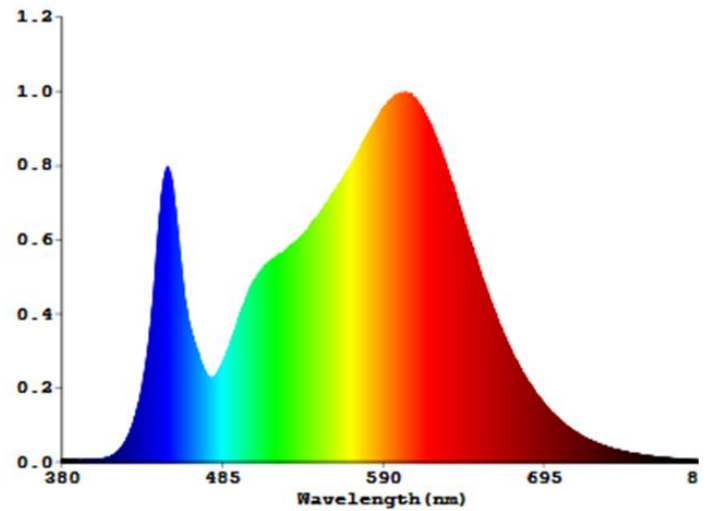
2. RX-LM301-312-K2 0.3m (12 in) high PPF test, Center point PPF: 908μmol/m²/s, Average PPF: 465μmol/m²/s

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

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

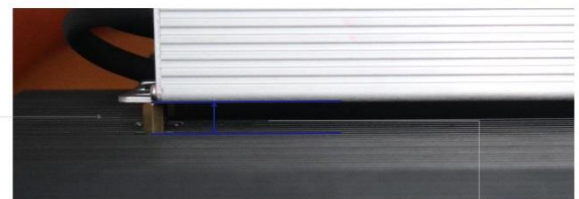


RX-LM301-S10 Spectrum Recommended Extra High Efficiency Deep Red Spectrum



Low cost spectrum Without deep red 660nm led chip

- 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.

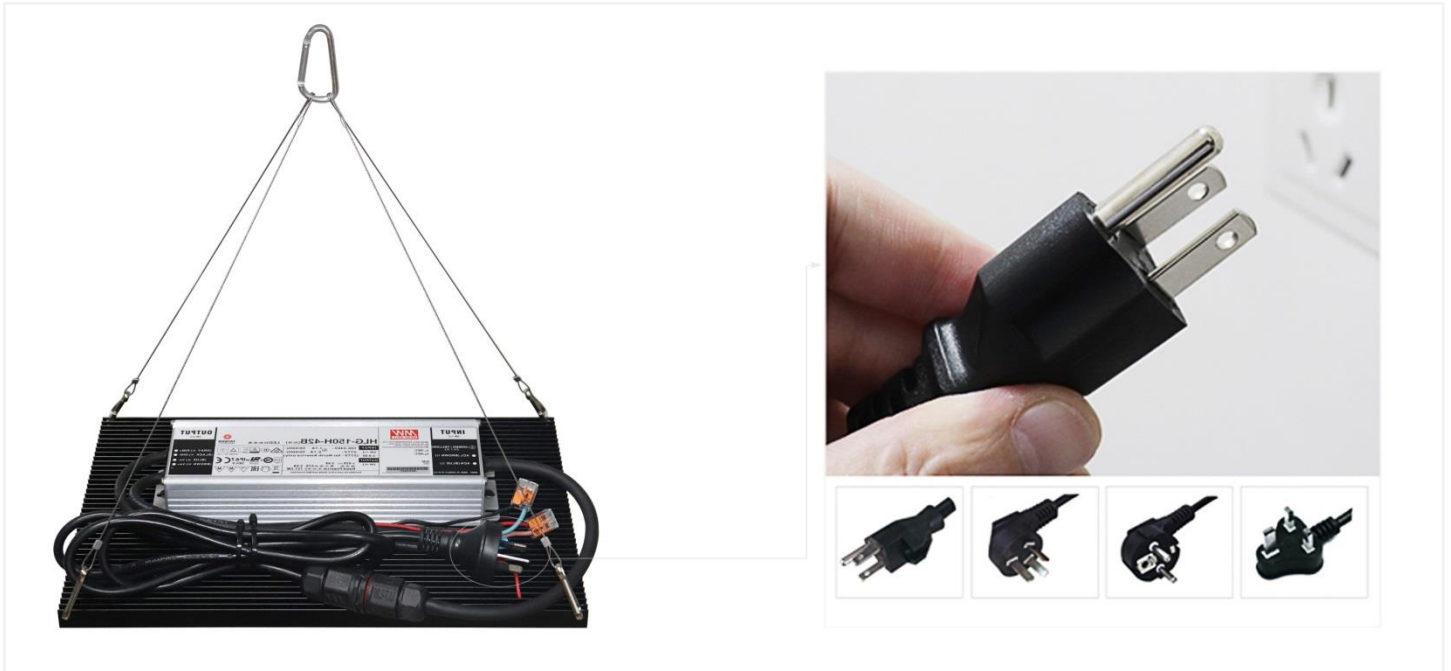


High=20mm

Stepped power supply for better heat dissipation

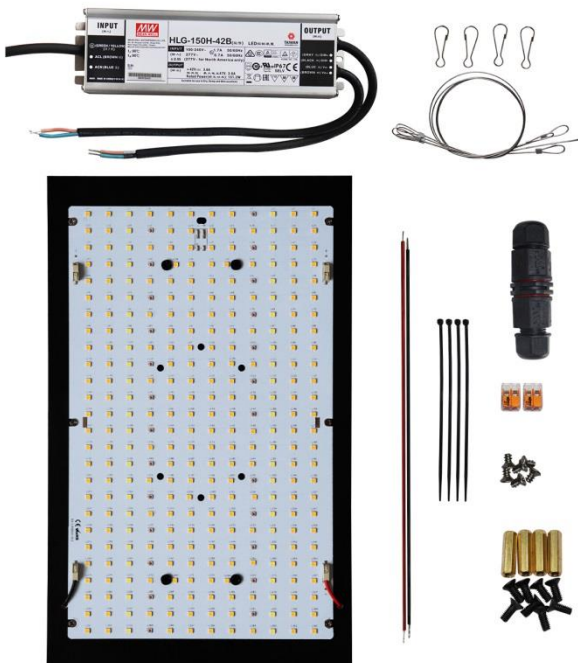
RX-LM301-312-KI plant light module uses integrated heat sink, grid design, stepped power supply, better heat dissipation

● Plug selection



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

● Product List



- 1、 LM301-312 grow light module: 1pcs
- 2、 Heat sink: 1pcs
- 3、 Meanwell driver HLG-150H-42B: 1pcs
- 4、 Connecting wires: 2pcs
- 5、 AC plug cable: 1pcs
- 6、 connector WAGO 221-412: 2pcs
- 7、 Waterproof connector: 1pcs
- 8、 Hexagon pillar: 4pcs
- 9、 M4 Copper Column Screw: 8pcs
- 10、 M3*5 tapping screw: 6pcs

- Free Accessories



Stainless steel ring buckle: 4pcs



Wire rope hook: 4pcs



snap hook: 1pcs



Tie band: 4pcs

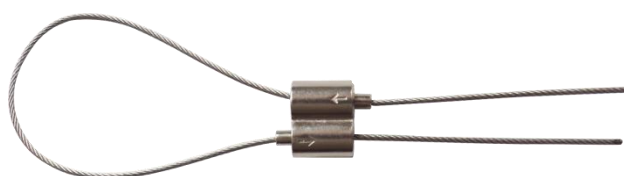
- Other optional accessories (Need additional purchase)



Wire rope hook



1.5m Steel cable



Side Exit Grippers



Nylon rope hook