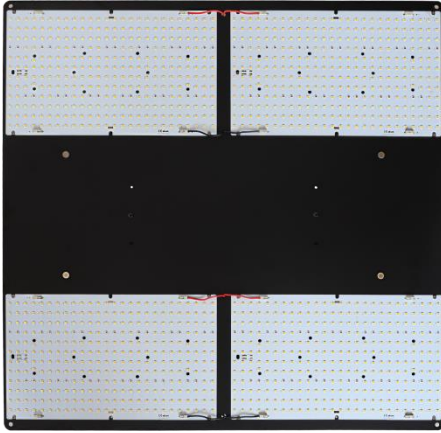


Description: RX-LM301-312-K4 high PAR output grow tent medicinal grow light module kit, large size module 24"x24" (600x600mm), for Balanced growth. Samsung LM301 high efficiency led chip, and add the deep red 660 nm. More effective spectra for medicinal plants, full spectrum is Ideal Medicinal plants LED grow light which can obviously improve the quality and harvest. suitable for basement planting, plant tent planting, experimental planting and greenhouse planting.



1. High efficiency grow light module kit, efficiency up to 2.8 $\mu\text{mol/J}$
2. Samsung LM301 led chip, high efficiency and reliability
3. Additional 660 nm deep red led chip, efficiency up to 3.4 $\mu\text{mol/J}$, Suitable for plant growth
4. Dimensions: 24" (600mm) x 24" (600mm) x 2.7" (68mm)
5. Can be customized the size, power, spectrum, PAR output, PPFD output as you need.
6. Input: AC 100~277V, power: 480W
7. Lifespan 50,000 hours
8. CE RoHS FCC

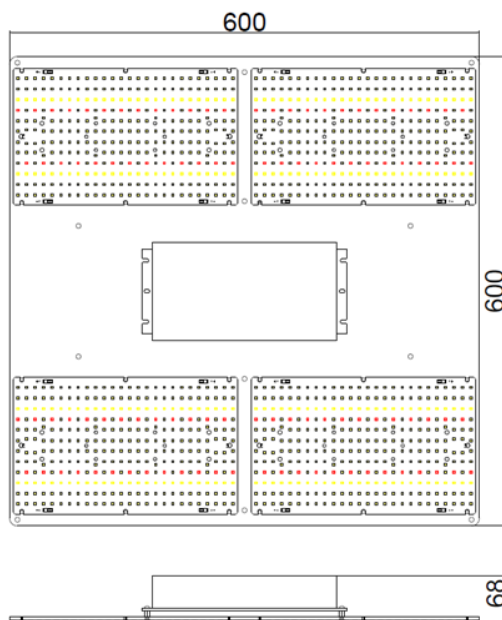
Model	Dimension LxWxH	Spectral Wavelength	Photon PPFD $\mu\text{mol/m}^2/\text{s}$	Luminous flux Radiation Power	Power Test Input	Comment
RX-LM301-312-K 4	600x600x68mm 24"x24"x 2.7"	S10	1286 μmol @0.4m 86947Lx	Flux: 86821Lm PPF: 1294 $\mu\text{mol/s}$	480W	for 4'x4' grow tent Meanwell HLG-480H-36B
			1037 μmol @0.5m 70294Lx			
			542 μmol @1m 36765Lx			

Surface temperature rise T_c 28°K, Operating temperature: -30 °C ~ 40°C, Lifespan: 50,000 hours (Note: T_a 25 °C)

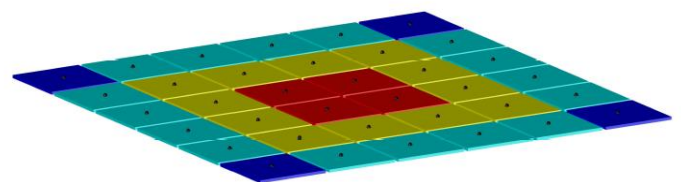
Tolerance range for optical and electrical data: $\pm 10\%$. Beam angle 120°, Recommended irradiation distance: 0.3~0.5m

The above data is for reference only!

Dimension:



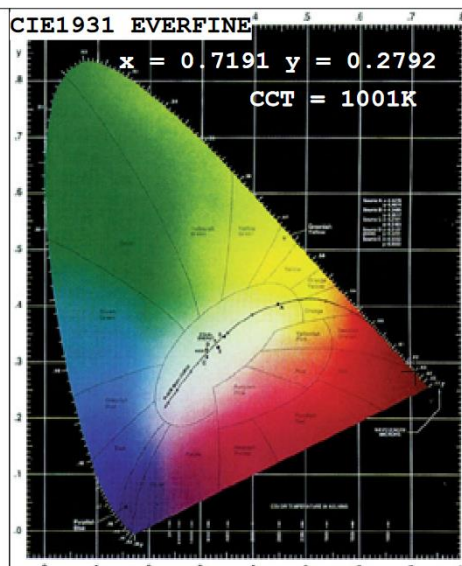
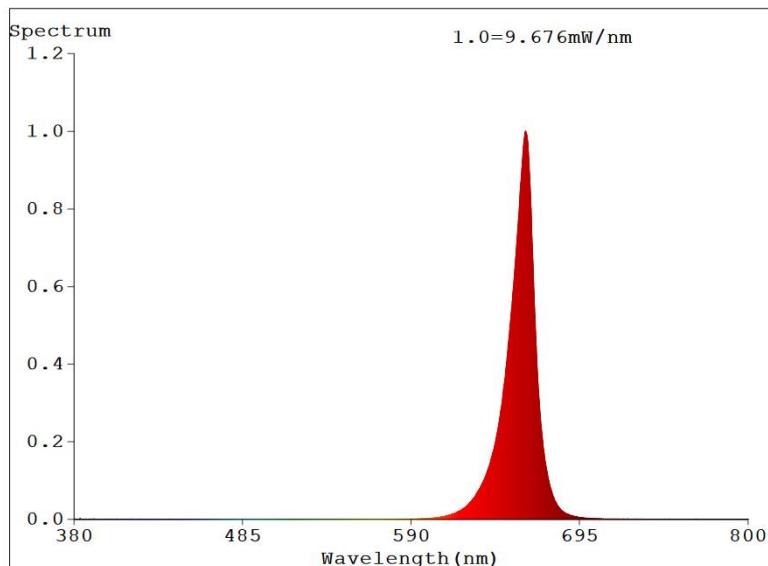
Unit: mm



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

Max area 4ft x 4ft (1.2x1.2m)

- High efficiency and energy saving, Samsung LM301 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

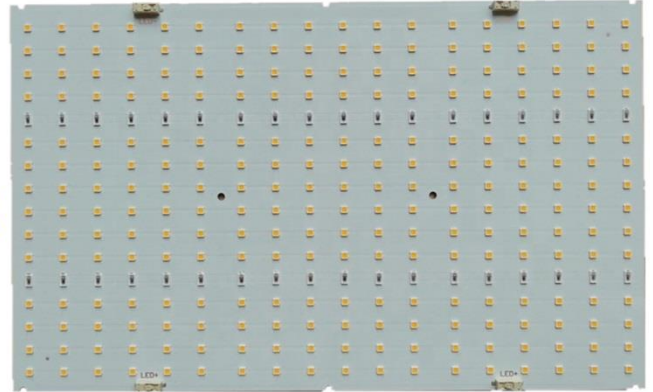
WHITE:OUT

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



Koray used 312 led chips

vs

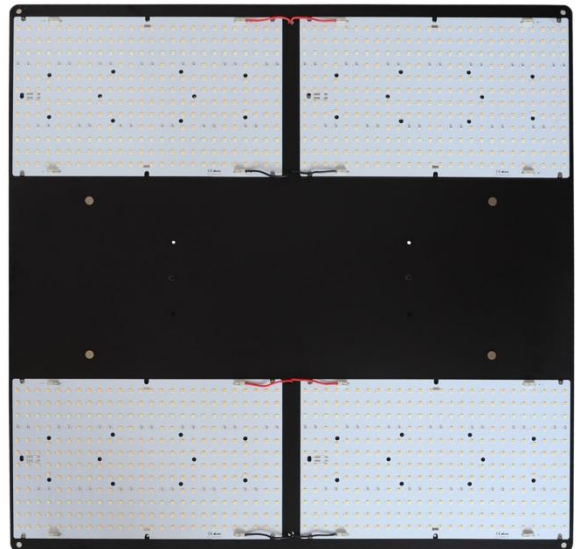


The other suppliers brand used 288 led chips

- Light science design, higher light uniformity



Uniform illumination, higher average PPFD

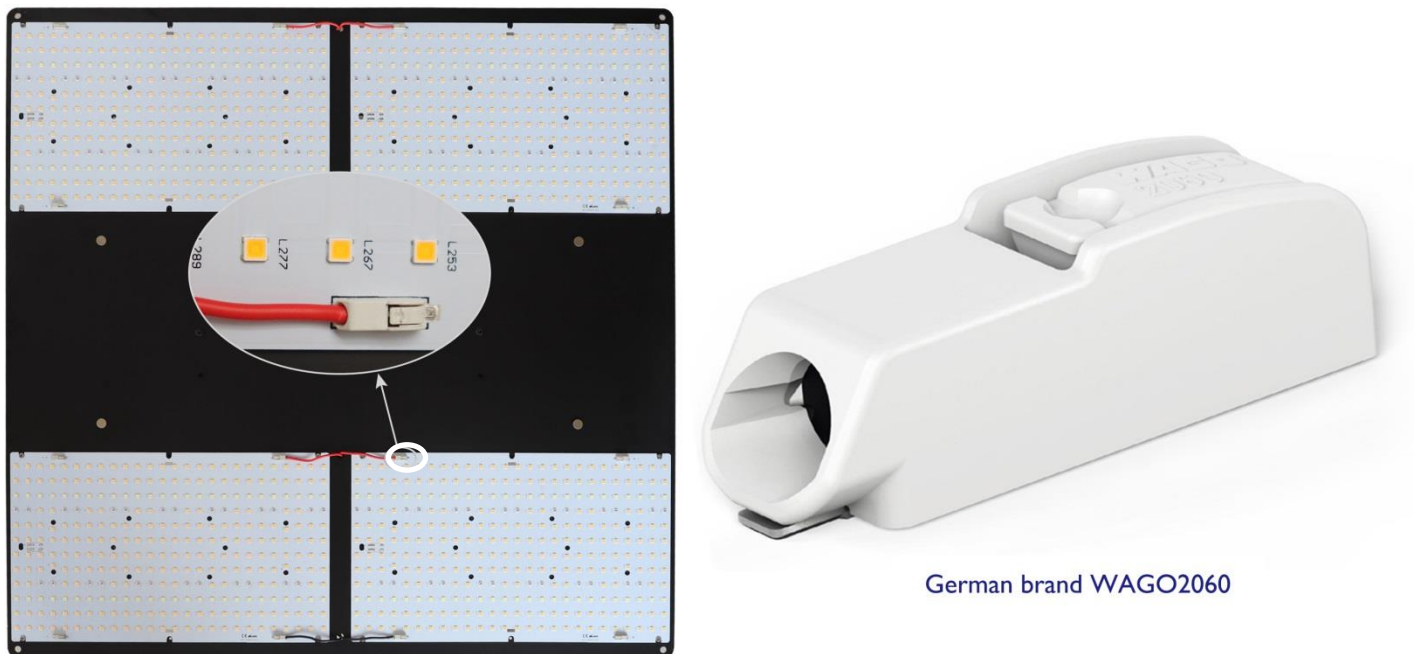


- IP67 waterproof connector : US, Canada, Europe safety certification



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

- German Brand WAGO2060 and WAGO221 connector



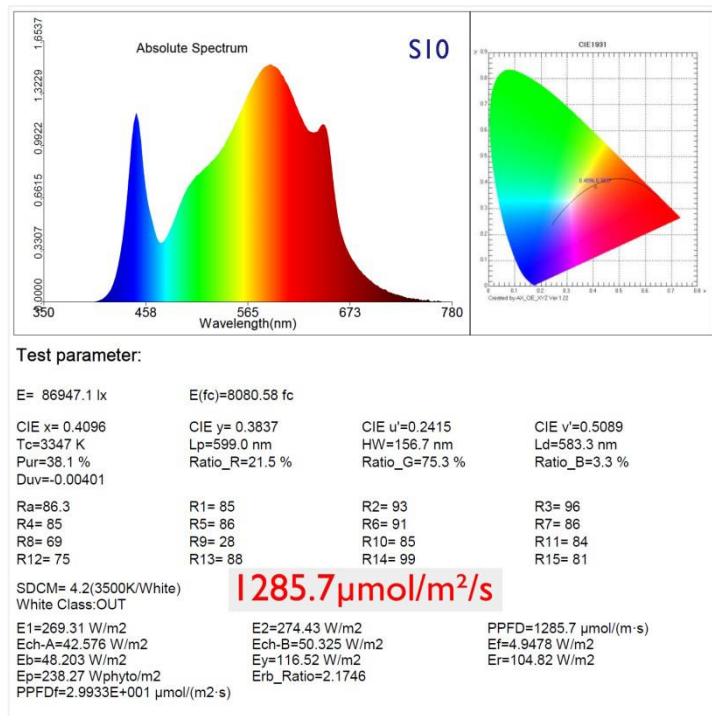
Using WAGO2060, simple installation and high reliability

- German Brand WAGO2060 and WAGO221 connector

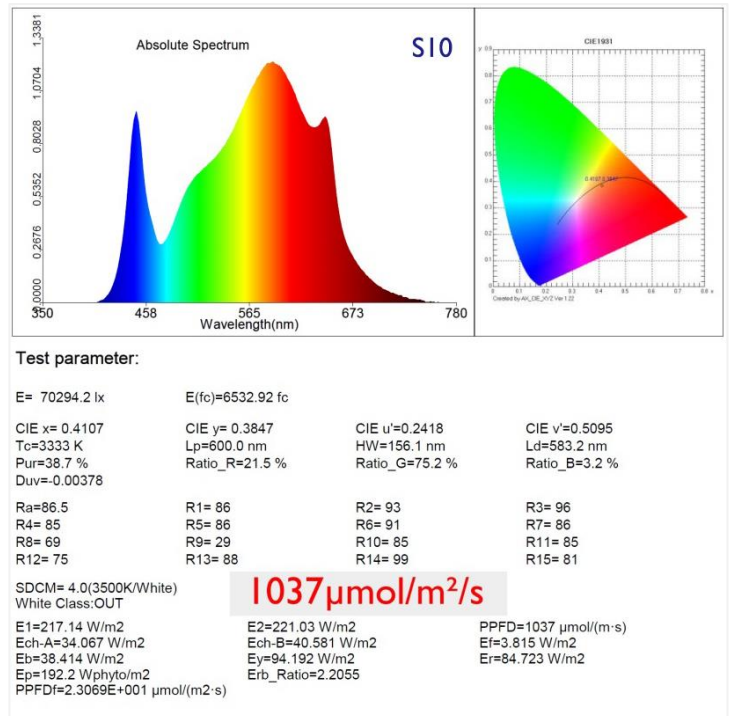


Wire connection, using German brand WAGO 221 series connector, safe and reliable

- RX-LM301-312-K4 PPFD test



RX-LM301-312-K4 H40 PPFD Test 1285.7 μmol/m²/s



RX-LM301-312-K4 H50 PPFD Test 1037 μmol/m²/s

● RX-LM301-312-K4 Temperature-test

Measurements

El1	Max	57.1 °C
	Min	29.5 °C
	Average	34.2 °C
Sp1		55.4 °C
Sp2		56.4 °C
Sp3		53.0 °C
Sp4		55.4 °C
Sp5		46.8 °C
Sp6		51.8 °C
Sp7		29.6 °C
Sp8		34.6 °C
Sp9		31.5 °C
Sp10		30.2 °C

Parameters

Emissivity	0.95
Ref. temp.	20 °C

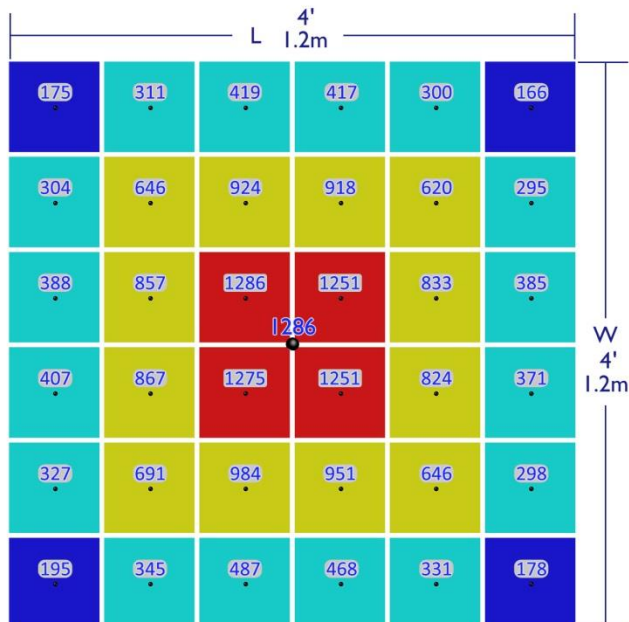
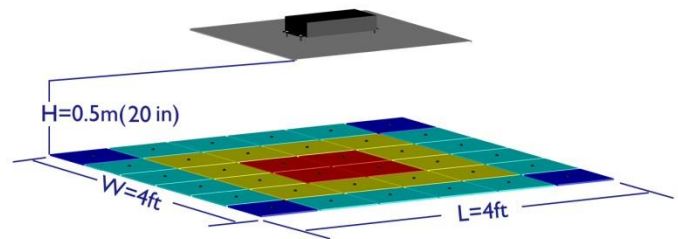
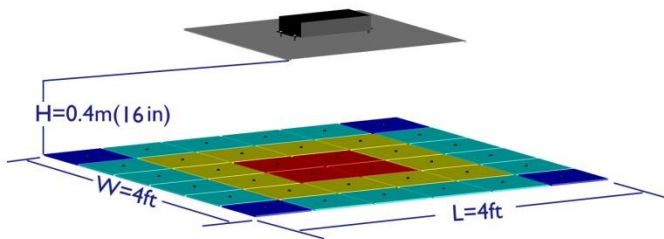
2019/4/22 15:32:12



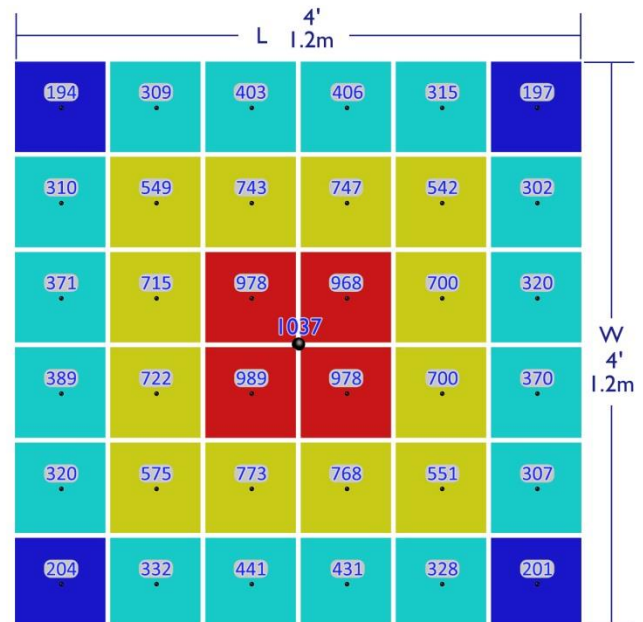
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● RX-LM301-312-K4 PPFD test (Open Environment Testing (No reflection test))



● PPFD Test Point Average: 616.7 $\mu\text{mol}/\text{m}^2/\text{s}$

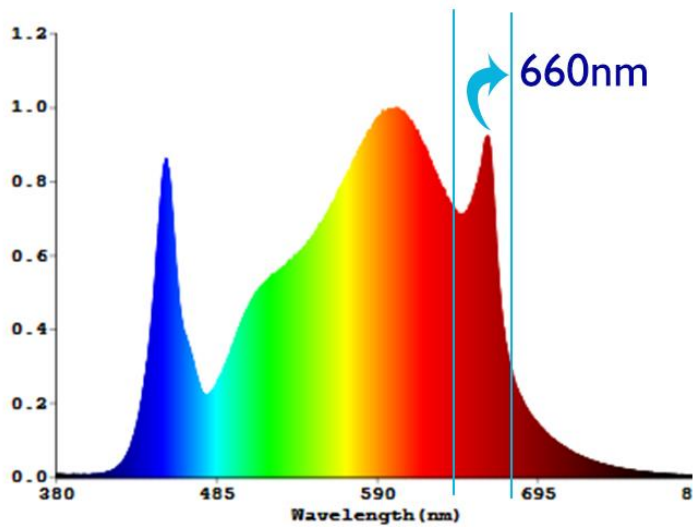


● PPFD Test Point Average: 526.1 $\mu\text{mol}/\text{m}^2/\text{s}$

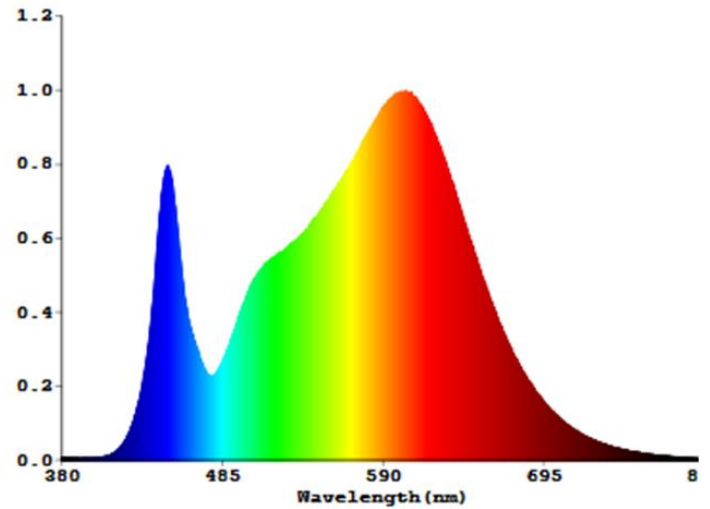
1. RX-LM301-312-K4 0.4m (16 in) height PPFD test, Center point PPFD: 1286 $\mu\text{mol}/\text{m}^2/\text{s}$, Average PPFD: 621.8 $\mu\text{mol}/\text{m}^2/\text{s}$
2. RX-LM301-312-K4 0.5m (20 in) height PPFD test, Center point PPFD: 1037 $\mu\text{mol}/\text{m}^2/\text{s}$, Average PPFD: 526.1 $\mu\text{mol}/\text{m}^2/\text{s}$

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-

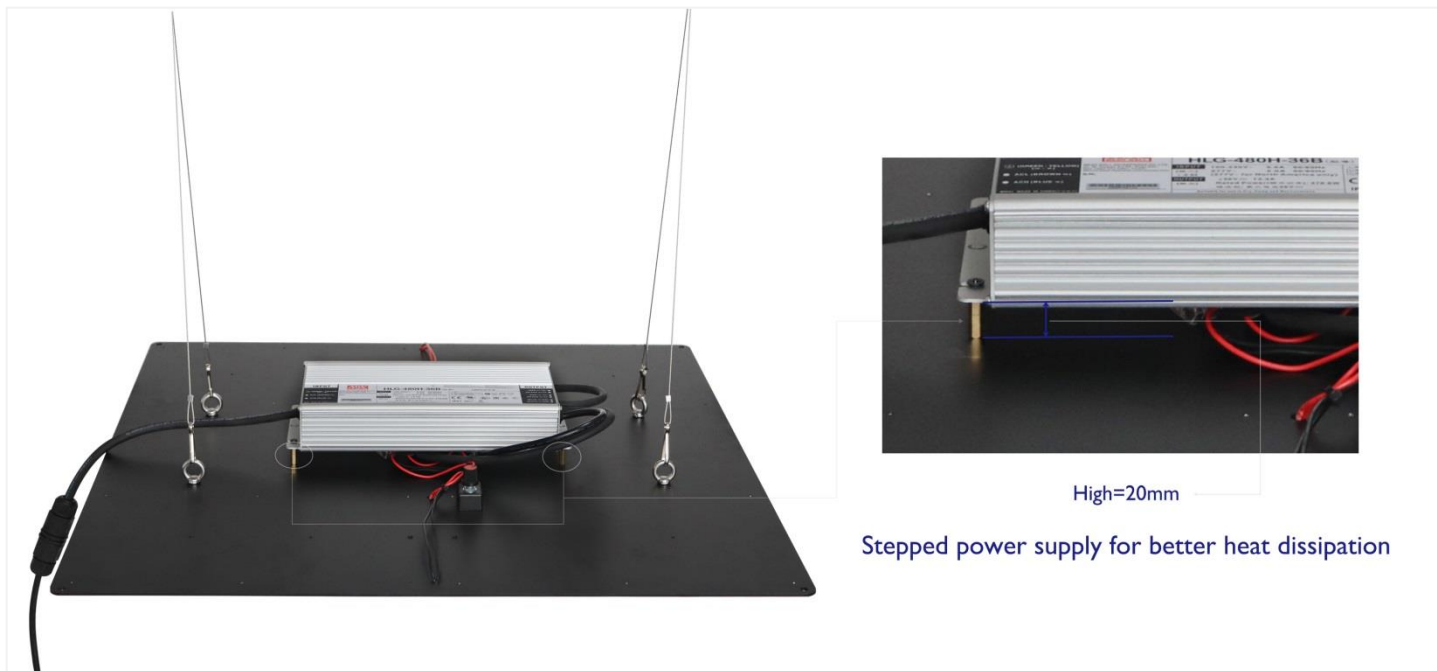
- Optional dimmer



Optional dimmer

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

- Stepped power supply for better heat dissipation



1. LM301-312 grow light module: 4pcs
2. Heat sink: 1pcs
3. Meanwell driver HLG-480H-36B: 1pcs
4. 0-10V dimmer: 1pcs
5. Connecting wires: 8pcs
6. AC plug cable: 1pcs
7. connector WAGO 221-412: 2pcs
8. connector WAGO 221-413: 3pcs
9. Waterproof connector: 1pcs
10. Hexagon pillar: 4pcs
11. M4 Copper Column Screw: 8pcs
12. M3*5 tapping screw: 24pcs

- Free Accessories



stainless steel Ring screw: 4pcs



Wire rope hook: 4pcs



Snap hook: 1pcs



Tie band: 4pcs

- Other optional accessories (If you need the following accessories, please contact Koray)



Wire rope hook



1.5m Steel cable



Cable Looping Gripper



Nylon rope hook