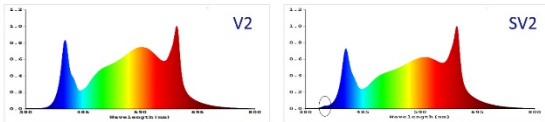


### Description:

RX-TP5025-M Greenhouse horticulture LED Modules, High PPF Urban agricultural plant factory Indoor Vertical shelf plant Growth Lights, New patent design product with unique lens, Different LED chips in one lens, Concentrating Light efficiently and More uniform spectral radiation, directional light, more efficient comparing with common grow lights. Silicone potting waterproof, more reliable. Suitable for various kinds of plant cultivation and especially for high-density shelf structure Plant Factories , Cupboard Showcase, planting boxes, plant cultivation.



1. Different LED chips in one lens, Spectral radiation uniform, Lens + Reflector cup, Concentrating radiation, Higher light utilization!
2. High PPF 961  $\mu\text{mol}/\text{m}^2/\text{s}$  3A, distance from plant canopy 0.2m
3. Urban Vertical Agriculture - Horticulture LED Production Module lights
4. Preferred plant-specific spectra, multiple **light-recipe** to meet different plant requirements
5. Waterproof IP65
6. Input: AC 100~277V PF >0.9 Power: 80W
7. Meet the safety requirements around the world, CE RoHS FCC

Model	Dimension LxWxH	Test current	Photon PPF $\mu\text{mol}/\text{m}^2/\text{s}$	Luminous flux PAR	PPF Efficiency	Comment
RX-TP5025-M-V2		1A @36.5V 36.5W	341 $\mu\text{mol}$ @0.2m 22929Lx	6892Lm	2.8 $\mu\text{mol}/\text{J}$	Surface temperature rise 15°K
			229 $\mu\text{mol}$ @0.3m 15369Lx	102 $\mu\text{mol}/\text{s}$		
			133 $\mu\text{mol}$ @0.5m 8971Lx	21543mW		
RX-TP5025-M-V2		2A @38V 76W	663 $\mu\text{mol}$ @0.2m 44493Lx	13320Lm	2.6 $\mu\text{mol}/\text{J}$	Surface temperature rise 20°K
			440 $\mu\text{mol}$ @0.3m 29497Lx	198 $\mu\text{mol}/\text{s}$		
			255 $\mu\text{mol}$ @0.5m 17183Lx	41725mW		
RX-TP5025-M-V2		3A @39.3V 117.9W	961 $\mu\text{mol}$ @0.2m 64732Lx	19195Lm	2.4 $\mu\text{mol}/\text{J}$	Surface temperature rise 30°K
			657 $\mu\text{mol}$ @0.3m 44001Lx	287 $\mu\text{mol}/\text{s}$		
			372 $\mu\text{mol}$ @0.5m 25000Lx	60372mW		

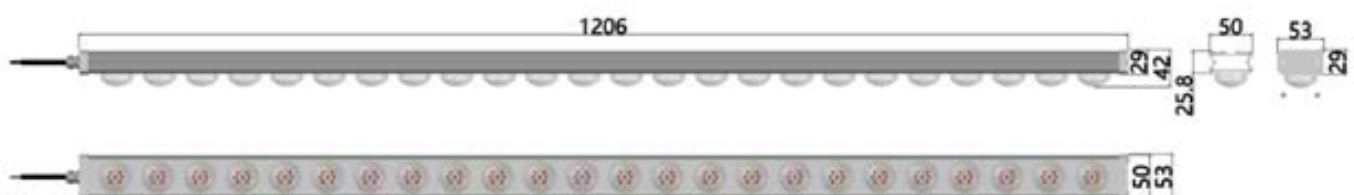
Operating temperature: -30 °C ~ 40°C , Life: 50,000 hours (Note: Ta 25 °C)

Tolerance range for optical and electrical data:  $\pm 10\%$

Illumination angle 60°, Recommended irradiation distance 0.2~1 m; Illumination angle 90°, Recommended irradiation distance 0.2~0.5 m

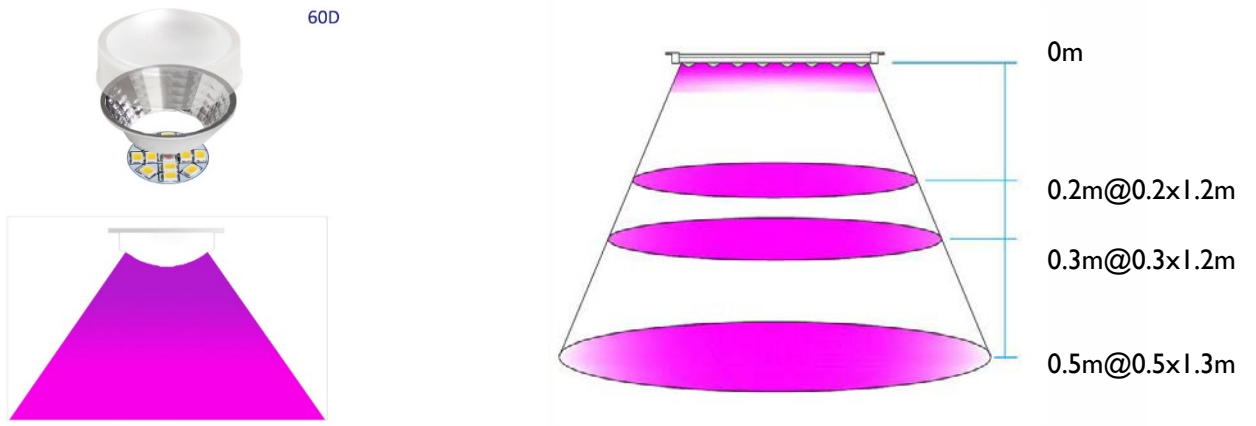
The above data is for reference only! Subject to change without notice

### Dimension:



UNIT: mm

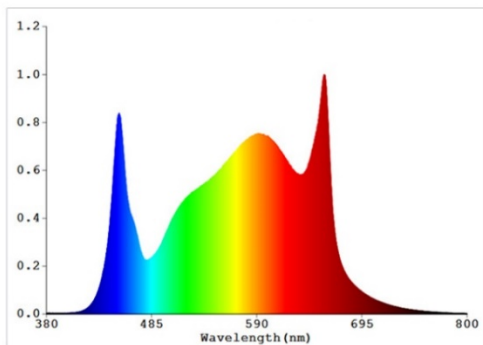
- 60D Depth distance & Coverage:



- Different LED chips in one lens, Spectral radiation uniform, Lens + Reflector cup, Concentrating radiation, Higher light utilization! The preferred spectrum satisfies plant growth illumination requirements.



Different LED in one lens More uniform Light

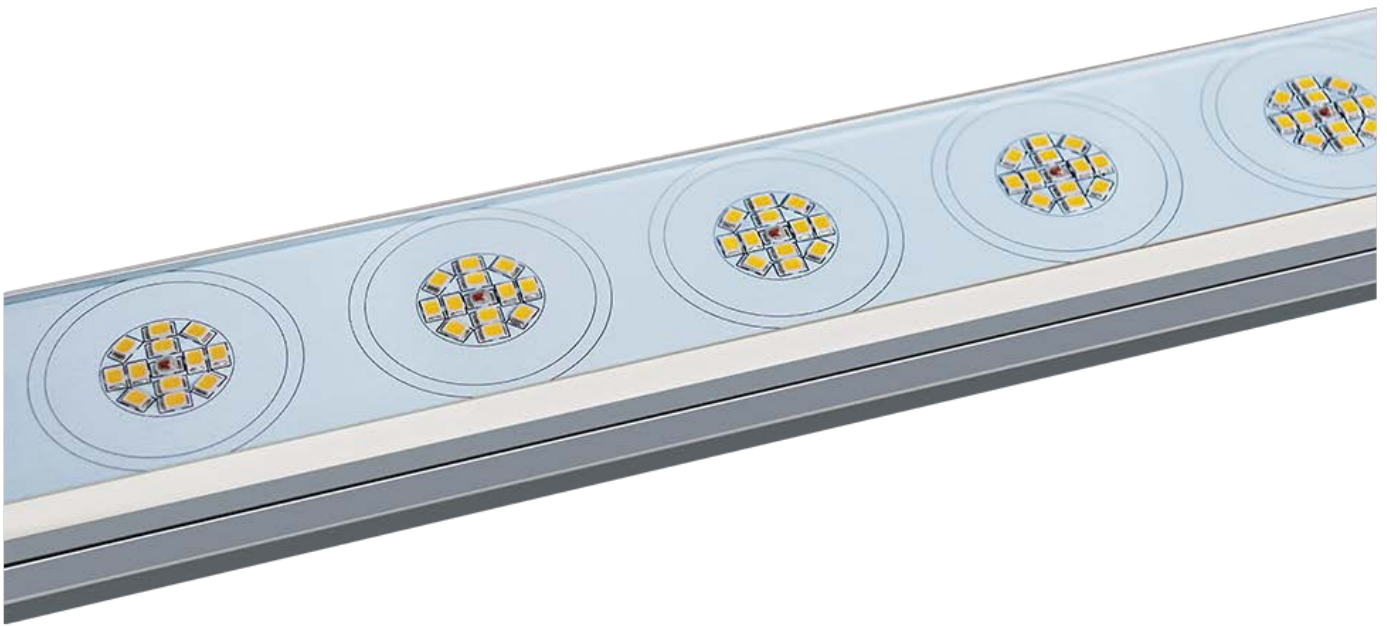


Effective light recipe  
Suitable for most plant growth

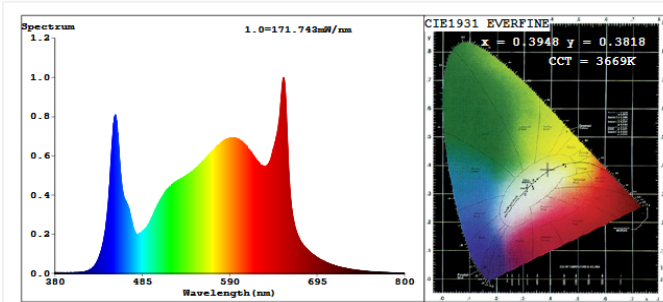


Concentrating Light efficiently  
higher light utilization efficiency

- Use 312 IW high-power LED lamp beads to reduce the amount of use, improve PPF efficiency, more reliable, longer service life.



● Testing report



**Color Parameters:**

Chromaticity Coordinate:  $x=0.3948$   $y=0.3818$   $u'=0.2325$   $v'=0.5059$   
 CCT=3669K (Duv=-0.0015) Dominant WL:Ld =581.0nm Purity=33.1%  
 Ratio:R=19.9% G=76.5% B=3.5% Peak WL:Lp=654.7nm FWHM=124.0nm  
 Render Index:Ra=88.9 AvgR=84.9  
 R1 =88 R2 =93 R3 =96 R4 =87 R5 =88 R6 =89 R7 =91  
 R8 =80 R9 =52 R10=83 R11=87 R12=67 R13=89 R14=98 R15=85

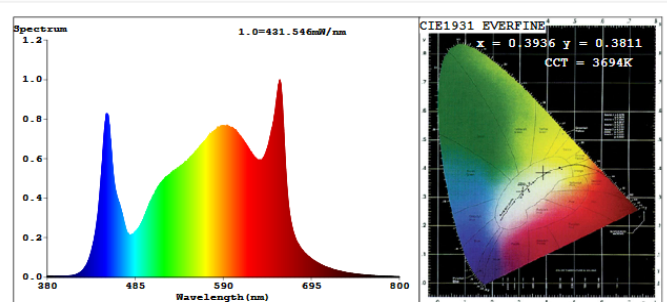
**Photo Parameters:**

Flux = 6892 lm Eff. : 189.38 lm/W Fe = 21.90 W  
 Scotopic:11281 S/P:1.6369  
 Photosynthetic:PPF:102.35umol/s PAR WATT:21543mW (400-700nm)

**Electrical parameters:**

V = 36.540 V I = 0.9960 A P = 36.39 W PF = 0.9500  
 LEVEL:OUT WHITE:ANSI\_3500K

RX-TP5025-M-V2 1A PPF PAR TEST 102umol/s



**Color Parameters:**

Chromaticity Coordinate:  $x=0.3936$   $y=0.3811$   $u'=0.2320$   $v'=0.5054$   
 CCT=3694K (Duv=-0.0015) Dominant WL:Ld =580.9nm Purity=32.5%  
 Ratio:R=19.7% G=76.9% B=3.4% Peak WL:Lp=657.3nm FWHM=145.8nm  
 Render Index:Ra=87.9 AvgR=83.6  
 R1 =87 R2 =92 R3 =95 R4 =87 R5 =86 R6 =87 R7 =91  
 R8 =79 R9 =48 R10=81 R11=86 R12=67 R13=88 R14=97 R15=84

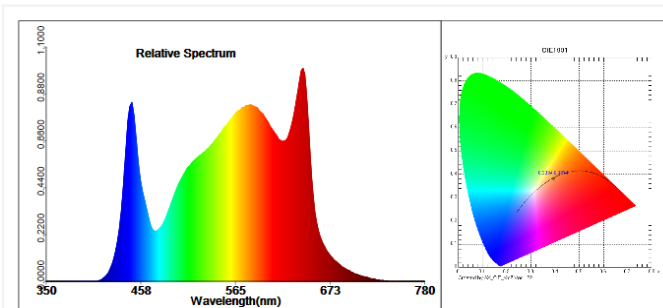
**Photo Parameters:**

Flux = 19195 lm Eff. : 163.28 lm/W Fe = 61.39 W  
 Scotopic:31221 S/P:1.6265  
 Photosynthetic:PPF:286.92umol/s PAR WATT:60372mW (400-700nm)

**Electrical parameters:**

V = 39.260 V I = 2.996 A P = 117.6 W PF = 0.9500  
 LEVEL:OUT WHITE:ANSI\_3500K

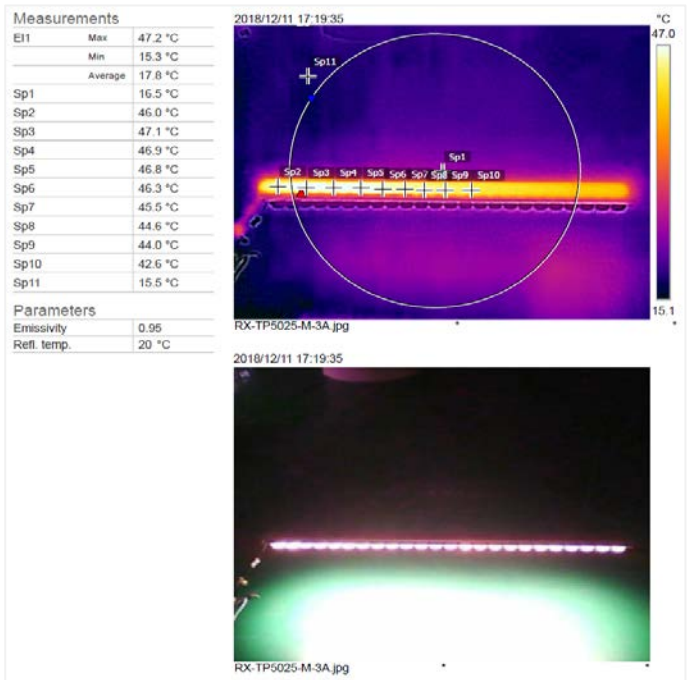
RX-TP5025-M-V2 3A PPF PAR TEST 287umol/s



**Test parameter:**

E= 64732.2 lx E(fc)=6016 fc  
 CIE x= 0.3934 CIE y= 0.3814 CIE u'=0.2317 CIE v'=0.5055  
 Tc=3701 K Lp=655.0 nm HW=152.2 nm Ld=580.8 nm  
 Pur=32.5 % Ratio\_R=19.7 % Ratio\_G=76.9 % Ratio\_B=3.4 %  
 Duv=-0.00138  
 Ra=87.9 R1= 87 R2= 92 R3= 94  
 R4= 87 R5= 86 R6= 87 R7= 91  
 R8= 79 R9= 49 R10= 80 R11= 86  
 R12= 67 R13= 88 R14= 97 R15= 84  
 SDCM= 7.3(F3500)  
 White Class:OUT  
 E1=202.37 W/m2 E2=204.37 W/m2 PPF=961.2 μmol/(m·s)  
 Ech-A=31.965 W/m2 Ech-B=40.436 W/m2 Ef=2.0059 W/m2  
 Eb=38.624 W/m2 Ey=88.329 W/m2 Er=76.581 W/m2  
 Ep=177.76 Wphyto/m2 Erb\_Ratio=1.9568  
 PPFDF=1.2078E+001 μmol/(m2·s)

RX-TP5025-M-V2 3A 0.2m PPF TEST 961 μmol/m²/s



Surface temperature Test

- Packing List Package includes the following items



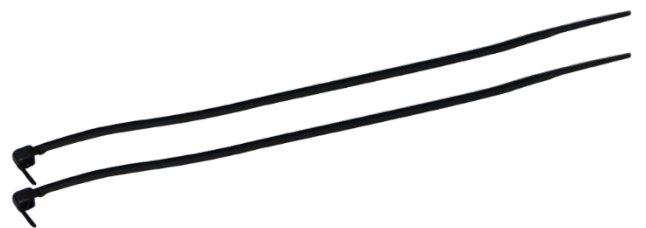
LED grow light bar 1pcs



L-type hex wrench 1pcs  
Suspension bolts 2pcs



1.5m Steel cable 2pcs  
Side Exit Grippers 2pcs  
Double hole wire rope lock 2pcs



Plastic Wire Cable - Cable finishing and fixing 2pcs

- Suspension installation



1. The wire rope passes through the beam and is fixed by the Double hole wire rope lock (Cable Looping Gripper)

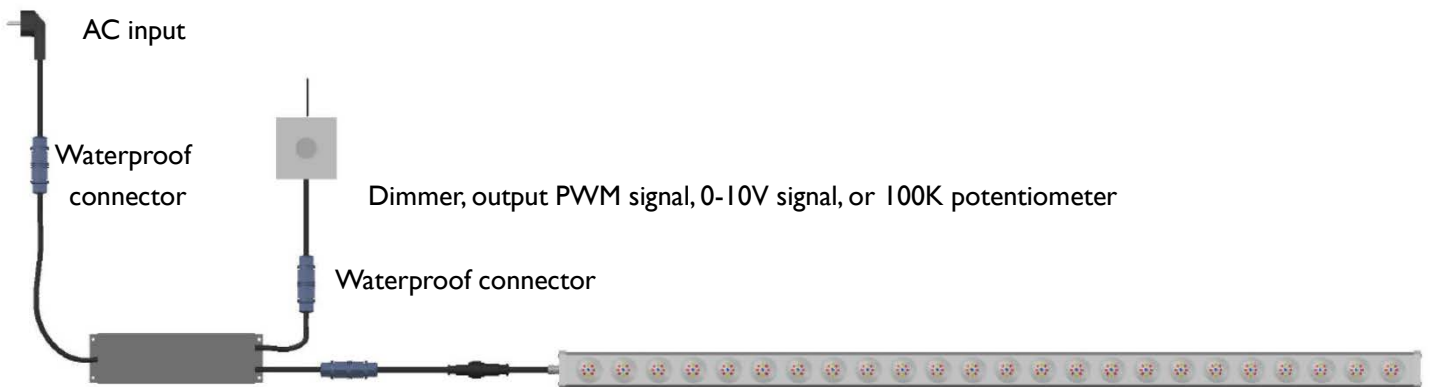


2. Rotate Fixed Side Exit Grippers to cable suspension bolts, Wire rope inserted into Side Exit Grippers



3. Hanging installation completed

- It is recommended to use one power supply to drive one LED plant light module.



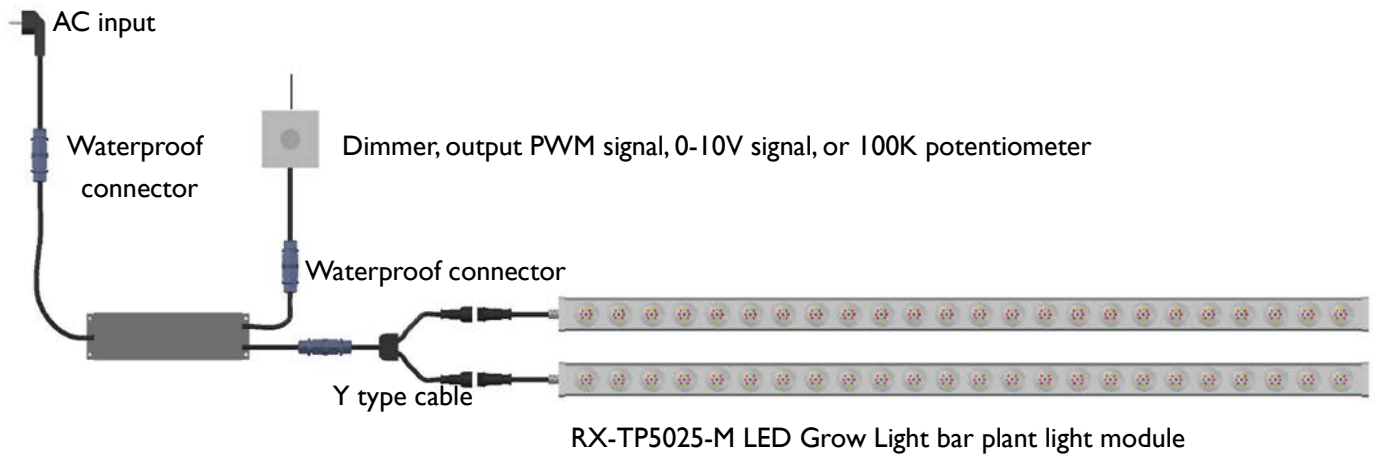
RX-TP5025-M LED Grow Light bar plant light module

### Recommended power supply model

1. ELG-75-42AB Output current 1.8A
2. ELG-100-42AB Output current 2.28A



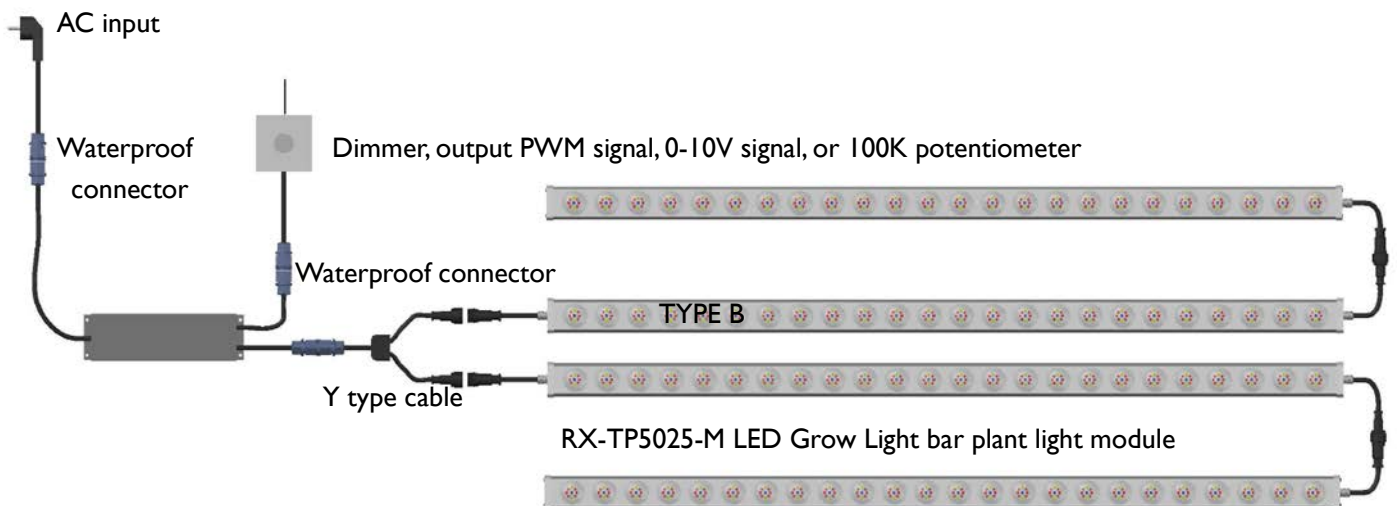
- Parallel connection, one power supply drives 2 LED plant light modules



**Recommended power supply model**

1. ELG-100-42AB Output current 2.28A, Each LED plant light module current 1.14A
2. ELG-240-42AB Output current 5.71A, Each LED plant light module current 2.855A.  
(5.71A current will damage the LED module, please connect two LED modules, then turn on the power switch)

- Parallel connection, one power supply drives 2 LED plant light modules



**Recommended power supply model**

1. ELG-240-42AB Output current 5.71A, Each LED plant light module current 1.14A.  
(5.71A current will damage the LED module, please connect 4 modules, then turn on the power switch)
2. HLG-320H-42B Output current 7.65A, Each LED plant light module current 1.91A.  
(7.65A current will damage the LED module, please connect 4 modules, then turn on the power switch)

**Electrical installation notes:**

Professional knowledge is required to install this product. Please read the specifications carefully before installation to understand the electrical parameters.

The drive power supply exceeding the rated current and voltage cannot be used. The maximum drive current of the RX-TP5025-M is shown in Figure 3A. The maximum voltage of the driver is 42V.

RX-TP5025-M Peak Forward Current 4A, if the drive current exceeds 3A, be sure to use an additional cooling method to ensure that the TCP temperature does not exceed 70 ° C, pay special attention, more than 3A current drive, causing damage, not covered by the warranty.