

Description: RX-G600-OR I Red and blue ratio Toplighting LED Grow Module, Concentrating Light efficiently and More uniform spectral radiation, directional light ,high light utilization efficiency, more efficient comparison with common grow lights. more Suitable for various kinds of plant cultivation (Customizable light recipes), high wire vegetables, vegetable cultivation, flower cultivation, ornamental plant cultivation, succulent plant cultivation, medicinal plant cultivation.



1. 500W / 600W red and blue than the top light greenhouse fill light planting lamp
2. High PPF, PAR up to 1200umol / s, PPF up to 1200umol/m2 / s @ 0.5m
3. German brand gardening(Horticulture) LED, PPF efficiency 2.8umol / J
4. Extremely deep/hyper red, matching far red and dark blue spectrum for higher absorption efficiency, customize the spectrum you need.
5. Conformal Coated, waterproof IP64, can customize IP65 (lens + reflector)
6. Input voltage: 100~305VAC, 127~431 VAC, PF> 0.9.
7. Lifespan: 50,000 hours.
8. Meet the safety requirements around the world, CE RoHS FCC

Model	Dimension LxWxH	Spectral Wavelength	Photon PPF $\mu\text{mol}/\text{m}^2/\text{s}$	Luminous flux Radiation Power	Power Input	Comment
RX-G600-OR I-M	1175x103x100mm 47"x4"x4"		590umol @0.5m 20" 10700Lx	Flux: 12167Lm PPF: 599umol/s	5.7A @38V 217W	HLG-240H-42 is recommended
			790umol @0.5m 20" 14100Lx	Flux: 15821Lm PPF: 799umol/s	7.7A @39V 300W	HLG-320H-42 is recommended
			1060umol @0.5m 20" 19100Lx	Flux: 20743Lm PPF: 1070umol/s	10.5A @41V 430W	HLG-480H-42 is recommended
RX-G600-OR I	1175x103x100mm 47"x4"x4"		453umol @1m 39" 8002Lx	Flux: 22692Lm PPF: 1202umol/s	500W/AC230 V	Meanwell HLG-480H-42A Red and blue ratio 6:1, extra far red 730nm, 6500K white spectrum
			132umol @2m 79" 2247Lx			
			64umol @3m 118" 1149Lx			

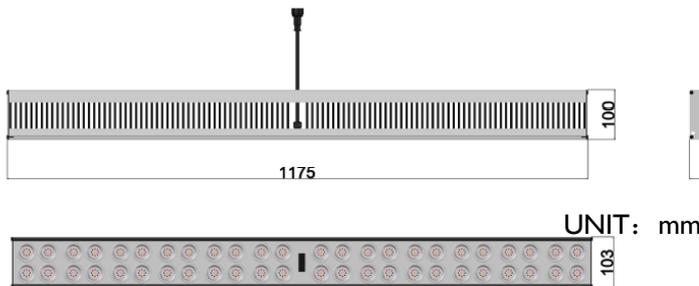
Surface temperature rise Tc 33K , Operating temperature: -30°C ~ 40°C , Lifespan: 50,000 hours (Note:Ta 25°C)

Tolerance range for optical and electrical data: ±10 %. Light emitting angle: 90 °

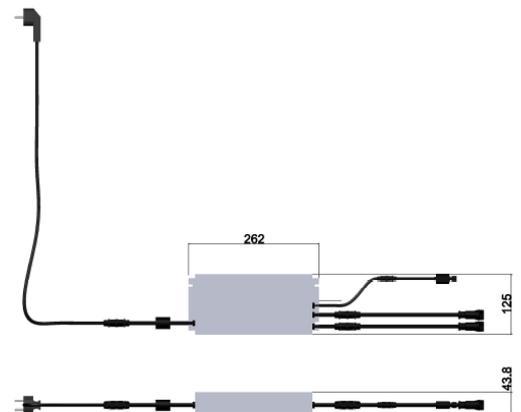
Recommended irradiation distance 0.5 ~ 3m

The above data is for reference only! Can be customized 600W, the whole lamp efficiency is up to 3.0umol/J, please contact Koray

Dimension:

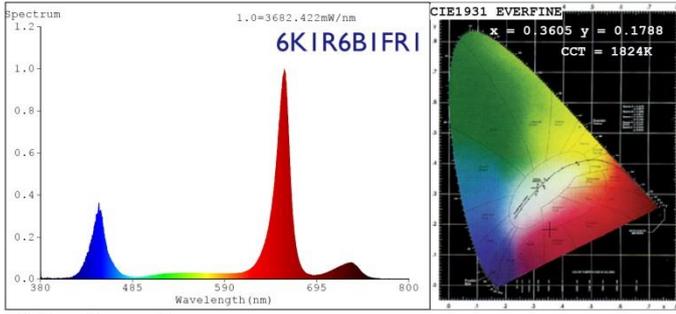


RX-G600-OR I-M LED Grow Light Module



HLG-480H LED Drivers

● PPF test report



Color Parameters:

Chromaticity Coordinate: $x=0.3605$ $y=0.1788$ $u'=0.3259$ $v'=0.3637$
 CCT=1824K (Duv=-0.1178) Dominant WL:Ld =-544.8nm Purity=39.4%
 Ratio:R=50.5% G=43.2% B=6.4% Peak WL:Lp=658.0nm FWHM=17.3nm
 Render Index:Ra=21.4 AvgR=17.2

R1 = 0 R2 = 0 R3 = 65 R4 = 24 R5 = 0 R6 = 0 R7 = 82
 R8 = 0 R9 = 0 R10 = 0 R11 = 0 R12 = 0 R13 = 0 R14 = 88 R15 = 0

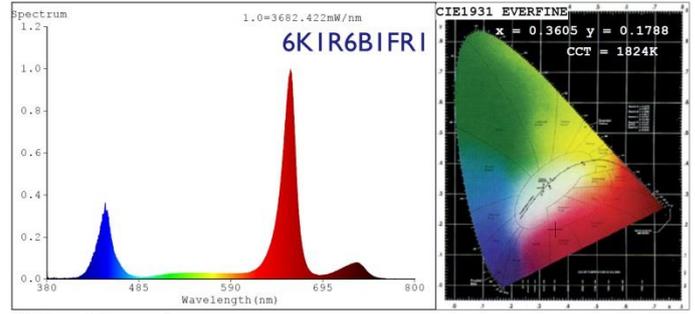
Photo Parameters: 599 μ mol/s 216W

Flux = 12167 lm Eff. : 56.31 lm/W Fe = 130.3 W
 Scotopic: 27789 S/P: 2.2839
 Photosynthetic: PPF: 598.83 μ mol/s PAR WATT: 1.2009e+005mW(400-700nm)

Electrical parameters:

V = 37.940 V I = 5.698 A P = 216.1 W PF = 1.000
 LEVEL: OUT WHITE: OUT

RX-G600-ORI-M 7.7A PPF Output test



Color Parameters:

Chromaticity Coordinate: $x=0.3517$ $y=0.1778$ $u'=0.3176$ $v'=0.3612$
 CCT=1961K (Duv=-0.1189) Dominant WL:Ld =-548.3nm Purity=42.0%
 Ratio:R=48.0% G=45.2% B=6.8% Peak WL:Lp=661.2nm FWHM=20.3nm
 Render Index:Ra=21.3 AvgR=17.4

R1 = 0 R2 = 0 R3 = 62 R4 = 28 R5 = 0 R6 = 0 R7 = 80
 R8 = 0 R9 = 0 R10 = 0 R11 = 4 R12 = 0 R13 = 0 R14 = 86 R15 = 0

Photo Parameters: 1202 μ mol/s 510W

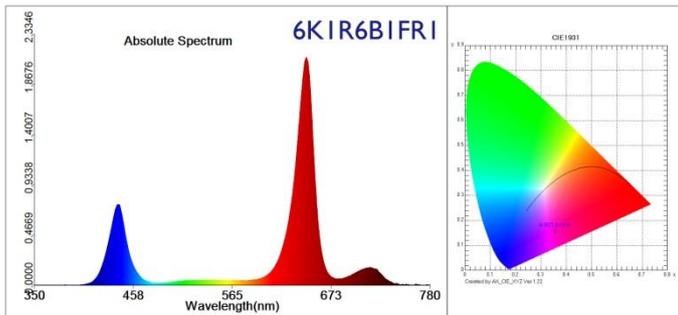
Flux = 22692 lm Eff. : 44.49 lm/W Fe = 260.0 W
 Scotopic: 54076 S/P: 2.383
 Photosynthetic: PPF: 1202.2 μ mol/s PAR WATT: 2.3944e+005mW(400-700nm)

Electrical parameters:

V = 222.00 V I = 2.362 A P = 510.0 W PF = 0.9700
 LEVEL: OUT WHITE: OUT

RX-G600-ORI 510W PPF Output test

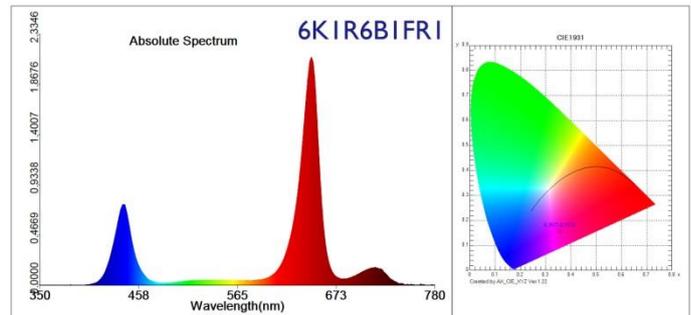
● PPFD test report



Test parameter:

E= 8002.2 lx E(fc)=743.703 fc
 CIE x= 0.3609 CIE y= 0.1601 CIE u=0.3437 CIE v=0.3432
 Tc=1607 K Lp=658.0 nm HW=22.1 nm Ld=610.2 nm
 Pur=52.6 % Ratio_R=58.5 % Ratio_G=34.5 % Ratio_B=6.9 %
 Duv=-0.13175
 Ra=-10.0 R1=-26 R2=-22 R3= 37
 R4= 26 R5=-62 R6=-76 R7= 74
 R8=-31 R9=-192 R10=-145 R11=-15
 R12=-324 R13=-50 R14= 74 R15=-64
 SDCM=99.2(3500K/White) White Class:OUT
453 μ mol/m²/s
 E1=90.519 W/m² E2=97.19 W/m² PPFD=452.65 μ mol/(m²-s)
 Ech-A=37.322 W/m² Ech-B=24.789 W/m² Ef=6.62 W/m²
 Eb=21.791 W/m² Ey=4.864 W/m² Er=63.873 W/m²
 Ep=81.327 Wphyto/m² Erb_Ratio=2.9312

RX-G600-ORI 500W IM PPFD test



Test parameter:

E= 2246.7 lx E(fc)=208.802 fc
 CIE x= 0.3485 CIE y= 0.1571 CIE u=0.3329 CIE v=0.3376
 Tc=97820 K Lp=661.0 nm HW=22.9 nm Ld=610.2 nm
 Pur=53.1 % Ratio_R=55.5 % Ratio_G=36.8 % Ratio_B=7.7 %
 Duv=-0.15764
 Ra=-95.2 R1=-144 R2=-40 R3= -3
 R4=-142 R5=-121 R6= -8 R7=-18
 R8=-287 R9=-809 R10=-166 R11=-165
 R12=-36 R13=-131 R14= 25 R15=-276
 SDCM=97.5(3500K/White) White Class:OUT
132 μ mol/m²/s
 E1=26.324 W/m² E2=28.282 W/m² PPFD=131.79 μ mol/(m²-s)
 Ech-A=11.509 W/m² Ech-B=6.8663 W/m² Ef=1.9313 W/m²
 Eb=6.438 W/m² Ey=1.4549 W/m² Er=18.433 W/m²
 Ep=23.532 Wphyto/m² Erb_Ratio=2.8632

RX-G600-ORI 500W 2M PPFD test

● Surface temperature test report

Measurements

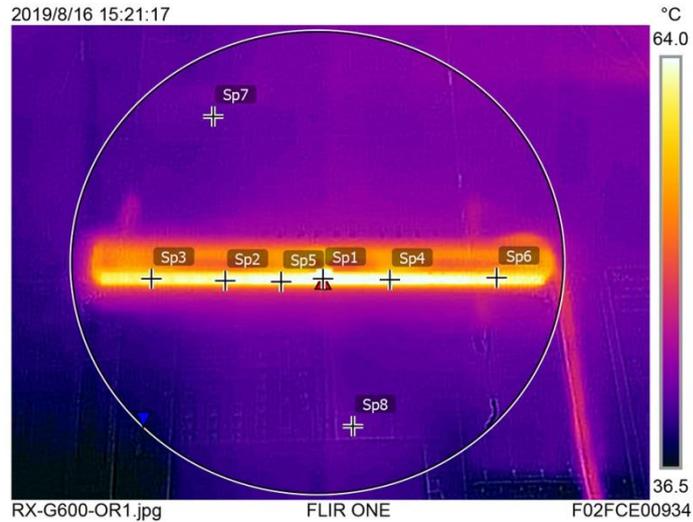
EI1	Max	68.7 °C
	Min	36.6 °C
	Average	39.0 °C
Sp1		68.4 °C
Sp2		63.2 °C
Sp3		61.0 °C
Sp4		66.1 °C
Sp5		64.2 °C
Sp6		62.5 °C
Sp7		37.2 °C
Sp8		37.2 °C

Parameters

Emissivity	0.9
Refl. temp.	22 °C

Geolocation

Compass	0° N
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● Electronic installation instructions

1. When open the package, please check whether the inside is including product, accessory, label, certificate quality. And please assure that the light is perfect without any damage.
2. The wires of LED Light is three-core, the standard size of the wire is 3*1mm² or 3*1.5mm² and the outer diameter is Φ7~12mm, brown wire is live line, blue wire is null line, yellow & green is ground line.
3. LED Light will work when the voltage up to rated voltage, so please be sure the voltage within the requested range, or it will damage the light which can't be repaired.
4. When the electrical continuity is connected, the lead wire should be in electric insulating. The way of connect wire:

Attention

1. In order to make sure the light can work safety and stability, the ground line should be connected the earth.
2. When connecting the wires please turn off the power, and check whether the wires are connected correctly. Never connect the wires in opposite way, or the power should not be turned on.
3. Please keeping the trip bolt being fastening and reliable, in case of the light fall down of looseness.
4. When finishing connect the wires, please use the insulation gummed tape to convolve the wires, confirm the insulation and solve the waterproof problem.